

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

In the Matter of Minnesota Power's
Annual Automatic Adjustment of
Charges Report

Docket No. E015/AA-19-302
**MINNESOTA POWER'S
ANNUAL TRUE UP REPORT AND
RATE ADJUSTMENT PROPOSAL**

I. Introduction

On December 22, 2020, the Minnesota Public Utilities Commission ("Commission") authorized Minnesota Power (or the "Company") to implement its 2021 Fuel Adjustment Clause ("FAC") forecast, based on forecasted sales of 8,187,964 MWh and forecasted fuel costs of \$216.4 million.

On July 30, 2021, Minnesota Power submitted a rate adjustment proposal to recover costs related to two significant unforeseen weather related outages which impacted the Company's High Voltage Direct Current ("HVDC") Transmission line ("HVDC Event"). After a 30-day notice period and no objection to the rate adjustment, Minnesota Power increased the approved monthly fuel cost rates for September through December 2021 by \$8.4 million, in accordance with Ordering Paragraph 3 of the Commission's June 12, 2019 Order¹ ("June 2019 Order") which states:

"The Commission adopts a threshold of plus or minus 5 percent of all FCA costs and revenues to determine whether an event qualifies as a significant unforeseen impact that may justify an adjustment to the approved fuel rates. The electric Utilities are permitted to implement revised rates following a 30-day notice period, subject to a full refund, if no party objects to the revised rates."

The Company's actual 2021 sales were 9,194,640 MWh and actual fuel costs were \$318.0 million. During 2021 Minnesota Power under collected fuel costs by \$55.8 million. In addition Minnesota Power over refunded 2020 fuel costs by approximately \$500,000 due to higher than forecasted sales during the September 2021 through

¹ Docket No. E999/CI-03-802

December 2021 refund time period. Minnesota Power proposes a 2021 FAC True-up amount of approximately \$56.3 million.

Based on the significant under collection amount Minnesota Power requests the use of a Significant Unforeseen Impact clause, per the Commission's June 2019 Order. A more detailed discussion regarding this request can be found in Section IV: Significant Unforeseen Impact and True up Proposal.

II. Description and Purpose of Filing

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

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

Order Point 1

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

Order Point 7

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

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

"The Commission will open an investigation in a separate docket and require Minnesota Power, Otter Tail, and Xcel to report their future self-commitment and self-scheduling analyses using a consistent methodology by including fuel cost

and variable O&M costs, matching the offer curve submitted to MISO energy markets.”

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

A. Rule 7825.2800 Annual Reports: Policies and Action

Attachment 11 includes information regarding Minnesota Power’s fuel and energy source procurement and energy dispatching policies.

B. Rule 7825.2810 Annual Report: Automatic Adjustment Charges

Attachment 2 includes Minnesota Power’s forecasted to actual comparison of Automatic Adjustment Charges for the period of January 2021 through December 2021.

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

C. Rule 7825.2820 Annual Auditor’s Report

Attachment 1 includes the Independent Auditor’s Report on Minnesota Power’s accounting for automatic adjustments during the period of January 2021 through December 2021.

D. Rule 7825.2830 Annual Five-Year Projection

The annual five-year projection is part of the Company’s FAC Forecast filing which is filed annually on May 1.

E. Rule 7825.2840 Annual Notice of Reports Availability

Attachment 12 includes the service lists of the interveners in the previous two general rate cases.

F. Other Reports and Information included in the 2021 FAC True-up

- Attachment No. 3 – Monthly MISO Day 2 Charges and Allocation
- Attachment No. 4 – Auction Revenue Rights Process and Information
- Attachment No. 5 – Plant Outage Reporting
- Attachment No. 6 – Annual Daily ASM Charges and Summary
- Attachment No. 7 – Report Addressing the Purchase Power Agreement with Manitoba Hydro
- Attachment No. 8 – Wind Curtailment Reporting
- Attachment No. 9 – Offsetting Revenues and/or Compensation Received by Investor-Owned Utilities (IOUs)
- Attachment No. 10 – Generation Facilities Maintenance Expense Report

III. 2021 FAC Forecast to Actuals

Minnesota Power proposes a FAC True-up charge of \$56.3 million. The total 2021 FAC True-up includes \$55.8 million based on a comparison of the 2021 FAC forecast to actual fuel and purchases summarized below and shown in Attachment 2 and a \$500,000 over refund amount from the 2020 FAC True Up. See Attachment 2 for additional information on the 2021 FAC calculation and the over/under recovery amounts related to 2021 and 2020.

Table 1: Fuel Cost Summary

	2021 Initial Forecast	2021 Revised 07/30/2021	2021 Actual	Difference
Company's Generating Stations	\$95,021,916	\$95,021,916	\$111,316,949	\$16,295,033
Plus: Purchased Energy	\$223,688,549	\$223,688,549	\$302,780,486	\$79,091,937
Plus: MISO Charges	\$24,860,016	\$24,860,016	\$64,223,807	\$39,363,791
Less: MISO Schedules 16, 17 & 24	\$(214,567)	\$(214,567)	\$(79,627)	\$134,941
Less: Fuel Cost Recovered through Inter System Sales	\$127,835,782	\$127,835,782	\$160,780,204	\$32,944,422
Less: Costs Related to Solar	\$-	\$-	\$1,366	\$1,366
Plus: Time of Generation and Solar Energy Adjustment	\$432,654	\$432,654	\$386,358	\$(46,296)
Significant Events Filing – HVDC Costs	\$-	\$8,423,738	\$-	\$(8,423,738)
Total Cost of Fuel	\$216,381,920	\$224,805,658	\$318,005,657	\$93,199,998
Total Fuel Clause Sales (MWhs)	8,188.0	8,188.0	9,195.0	1,007.0
Average Cost of Fuel	\$26.42	\$27.46	\$34.59	\$7.13

A. Sales

Customer sales increased by 1,006,676 MWhs, or 12 percent, over forecasted sales mainly due to increased industrial sales. When Minnesota Power submitted its forecast in May 2020 the Company anticipated that the lower sales experienced in 2020, due to the global pandemic, would continue.

Table 2: Sales Comparison

2021 Sales (MWh)	Forecasted Sales	Actual Sales	Difference
Total Sales of Electricity	13,073,637	14,566,917	1,493,283
Residential	1,034,896	1,043,665	8,769
Commercial	1,121,024	1,174,413	53,389
Industrial	4,592,122	5,542,593	950,471
Lighting	12,106	10,445	(1,661)
Municipal Pumping	45,550	47,423	1,873
Municipals	1,398,623	1,393,315	(5,308)
Inter System Sales	4,869,313	5,355,063	485,749
Less: Inter System Sales	4,869,313	5,355,063	485,749
Customer Intersystem Sales	764,396	1,067,722	303,326
Market Sales	2,236,937	3,412,055	1,175,118
Station Service	7,885	6,126	(1,759)
Sales due to Retail and Resale Loss of Load	1,860,096	869,160	(990,936)
Less: Solar Generation & Purchases	16,357	17,215	858
Total Fuel Clause Sales	8,187,964	9,194,640	1,006,676

Inter System sales also increased by 485,749 MWhs mainly due to increased MISO market sales, liquidated sales and customer sales. However, Inter System sales are removed from the Total Sales of Electricity as they are non-FAC MWhs. Minnesota Power used the RTSim production cost model to determine the volume and cost of MISO market sales used in the forecast. Actuals are looked at hourly so there will be hours where Minnesota Power is a net seller and hours when Minnesota Power is a net purchaser which creates market purchases and sales in a month. Liquidated Sales are not forecasted as the model either decreases purchases or reduces generation instead of calculating liquidation where actuals look at a Day Ahead and Real Time market that

can cause liquidation. In the 2021 forecast Minnesota Power assumed customers would nominate lower due to the pandemic but actual 2021 nominations were closer to full production, and, therefore, less sales were needed due to Retail Loss of Load.

B. Generation

Minnesota Power saw an increase of approximately [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] of generation during 2021. The higher energy production at Minnesota Power’s thermal generation fleet is a result of increased customer sales, lower renewable production, and higher market prices. In addition, Minnesota Power’s zero cost fuel resources saw a decrease of approximately 14 percent in generation due to lower than expected wind and extreme drought conditions.

Table 3: Generation MWh Comparison

2021 Generation (MWh)	Forecasted Generation	Actual Generation	Difference
	[TRADE SECRET DATA BEGINS		
Boswell Unit 3	[REDACTED]	[REDACTED]	[REDACTED]
Boswell Unit 4	[REDACTED]	[REDACTED]	[REDACTED]
Hibbard	[REDACTED]	[REDACTED]	[REDACTED]
Laskin	[REDACTED]	[REDACTED]	[REDACTED]
Wind	[REDACTED]	[REDACTED]	[REDACTED]
Hydro	[REDACTED]	[REDACTED]	[REDACTED]
Total	[REDACTED]	[REDACTED]	[REDACTED]
]TRADE SECRET DATA ENDS]		

On July 20, 2021, Minnesota Power transitioned Boswell Unit 3 to economic dispatch; however, the unit was consistently dispatched due to market conditions.

Due to the increase demand in generation, Minnesota Power implemented coal conservation measures in September 2021 to ensure Boswell maintained an adequate fuel supply for the winter season. Those measures included the testing of alternative fuels at Boswell, working with the MISO Independent Market Monitor to develop an effective offer structure to ensure the units were offered appropriately into the market, and utilization of the bilateral market to minimize customer exposure to the higher priced market. The Company was also able to secure additional coal late in 2021, after working with its rail transportation provider to deliver volumes over its binding

nomination in an effort to keep a consistent number of train deliveries through the remainder of 2021 and into 2022.

C. MISO Charges and Market Prices

The power markets experienced major price volatility due to extreme weather events like the polar vortex in February and the significant heat and drought conditions which started in June and continued through the last part of the year. In addition to the extreme weather events, concerns over coal supply and a global energy crunch resulted in a significant increase in both natural gas and power market prices. Natural gas prices increased by approximately 95 percent compared to 2020, while power prices saw an even more dramatic impact, increasing by about 120 percent at MP.MP compared to 2020.

Table 4 below compares the average MISO Market price used in the 2021 forecast to actual average MISO Market prices.

Table 4: Average Market Price Comparison

\$/MWh	2021 Forecast	2021 Actual	Difference
	[TRADE SECRET DATA BEGINS		
Average Market Price			
	TRADE SECRET DATA ENDS]		

IV. Significant Unforeseen Impact and True-up Proposal

Minnesota Power requests the use of the Significant Unforeseen Impact clause to begin the collection of the proposed 2021 FAC True-up starting April 1, 2022. The significant under collection of \$56.3 million would be spread over a 17 month collection period of April 2022 through August 2023.

Spreading the collection over a 17 month period reduces the monthly impact on the customer compared to the normal 12 month recovery period for annual true-up filings. Also, beginning collection starting April 1, 2022 reduces the regulatory lag burden on Minnesota Power. This 17 month period would also allow for any potential adjustments,

if deemed necessary, to be incorporated into the true-up beginning September 2022 based on the current timeline established as part of FAC Reform in Docket No. E999/CI-03-802. Implementation on April 1, 2022 provides for the 30-day notice period specified by the June 2019 Order.

The true-up rate applied to customer bills will be based off of forecasted sales for the applicable period. The table below shows the proposed true-up rates for April 2022 through December 2022. At this time Minnesota Power does not have an approved 2023 forecast but will align forecasted sales once approved.

¢/KWh	2022 Forecasted Rates	2021 True-up Rates	Net Rate Impact
April 2022	2.505	0.487	2.992
May 2022	2.470	0.480	2.950
June 2022	2.584	0.480	3.064
July 2022	2.953	0.446	3.399
August 2022	2.749	0.457	3.206
September 2022	2.527	0.472	2.999
October 2022	2.565	0.465	3.030
November 2022	2.436	0.451	2.887
December 2022	2.525	0.414	2.940

For the average residential customer the proposed 2021 FAC True-up would be approximately \$3.50 per month.

V. Conclusion

It is reasonable for Minnesota Power to recover the \$56.3 million of under collected cost from customers because there were several unforeseen events that occurred in 2022 that were not known at the time of the FAC Forecast filing. At the time the forecast was created Minnesota Power and customers were experiencing the 2020 recession, and market prices were around \$20/MWh. Since that time period, there have been unexpected increase in energy market prices, lower renewables, and strong customer demand resulted in \$56.3 million of under collection.

Minnesota Power submits this annual true-up report pursuant to the Commission's rules regarding Automatic Adjustment of Charges and Docket No. E999/CI-03-802.

Dated: March 1, 2022

Respectfully Submitted,



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Report of Independent Accountants



Report of Independent Accountants

To the Management of ALLETE, Inc:

We have performed the procedures enumerated below, which were agreed to by ALLETE, Inc. and Minnesota Power, an operating division of ALLETE, Inc. (together the “Company,” as the engaging party), solely to assist you in evaluating compliance with rule 7825.2820 of the Rules of the Minnesota Public Utilities Commission (the “MPUC”) governing Automatic Adjustment Charges. The Company is responsible for Section A of Minnesota Power’s Annual Report of Automatic Adjustment Charges for the period January 1, 2021 through December 31, 2021 found in Attachment No. 2 (Section A) of the Company’s Annual Reports Containing Fuel Information and Data (the “Annual Report”) pursuant to MPUC Rules 7825.2800 – 7825.2840.

In an agreed-upon procedures engagement, we perform specific procedures that the Company has agreed to and acknowledged to be appropriate for the intended purpose of the engagement and we report on findings based on the procedures performed. 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 parties specified in this report have agreed to and acknowledged that the procedures performed are appropriate for their purposes. This report may not be suitable for any other purpose.

The procedures performed and results thereof are as follows:

1. For the period January 1, 2021 through December 31, 2021, we compared 16 randomly selected invoices, received from the Company’s energy providers to the amount recorded and paid by the Company and determined they were in agreement.
2. For the period January 1, 2021 through December 31, 2021, we compared the \$0 base costs of power approved by the Commission in Docket No. E015/MR-19-443 to the bases used by the Company in the Fuel Adjustment Clause Calculation and found them to be in agreement.
3. We recalculated the billing adjustment charge (credit) per kWh charged customers for purchased power for the period January 1, 2021 through December 31, 2021 as set forth in the Fuel Adjustment Clause Calculation for the Automatic Retail Fuel Adjustments and Recovery Report for each customer class listed for mathematical accuracy and found all to be calculated accurately.
4. We obtained the accounting records for the revenues billed to customers for energy delivered for the period January 1, 2021 through December 31, 2021. We compared total sales of electric energy to the Company’s general ledger and found them to be in agreement.
5. For the period January 1, 2021 through December 31, 2021, we compared 16 randomly selected individual billings across all customer classes and compared the automatic adjustment charges and credits included in the bills to the billing adjustment charge (credit) reported by the Company in the Fuel Adjustment Clause Calculation and found them to be in agreement.



6. We compared any corrections for fuel adjustment clause charges or other billing errors included within the Fuel Adjustment Clause Calculation for the period January 1, 2021 through December 31, 2021 to the Company's general ledger. No corrections or other billing errors were noted.
7. For the period January 1, 2021 through December 31, 2021, we compared the revenue reconciliations from the CIS sub-ledger to the Company's general ledger, for total revenue and found them to be in agreement. For the period January 1, 2021 through December 31, 2021, we compared the cost of power reconciliations, which includes (1) coal burned, (2) total purchase power, (3) MISO non-recoverable cost, and (4) purchased steam, to the Company's general ledger and found them to be in agreement.
8. For the period January 1, 2021 through December 31, 2021, we recalculated any true-up included within the Fuel Adjustment Clause Calculation and trace the related revenue and expense amounts to the Company's accounting records. No true-ups were noted.

This agreed-upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants (AICPA). We were not engaged to and did not conduct an audit or an examination engagement, the objective of which would be the expression of an opinion, or a review engagement, the objective of which would be the expression of a conclusion, on Section A of Minnesota Power's Annual Report of Automatic Adjustment Changes for the period January 1, 2021 through December 31, 2021 found in Attachment No. 2 of the Company's Annual Report. 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.

In performing this engagement, we are required to be independent of ALLETE, Inc. to meet our 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 Management of ALLETE, Inc., Minnesota Power and the MPUC and is not intended to be and should not be used by anyone other than these specified parties.

Primmterhouse Coopers LLP

Minneapolis, Minnesota
March 1, 2022

**Automatic Retail Fuel Adjustment Charges
Forecast to Actual Comparison
January 1, 2021 through December 31, 2021**

Docket No. E,G999/AA-04-1279, dated December 7, 2005

Docket No. E999/CI-03-802, dated December 12, 2018

Minn. Rule 7825.2810

A. Summary - Automatic Adjustment Charges:

Ref. No.	Revenue/Accounting Month Cost of Fuel	YTD 2021			Jan-21			Feb-21		
		Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)
1	Company's Generating Stations	\$95,021,916	\$111,316,949	\$16,295,033	\$10,591,719	\$8,774,947	(\$1,816,772)	\$9,341,298	\$9,826,510	\$485,212
	Thermal	\$95,021,916	\$111,316,951	\$16,295,035	\$10,591,719	\$8,774,947	(\$1,816,773)	\$9,341,298	\$9,826,510	\$485,212
	Wind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Hydro	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Plus: Purchased Energy	\$223,688,549	\$302,780,486	\$79,091,937	\$19,109,721	\$19,636,507	\$526,786	\$17,416,578	\$21,840,762	\$4,424,184
	Market	\$155,677,856	\$241,496,678	\$85,818,822	\$12,811,236	\$14,278,615	\$1,467,379	\$11,926,584	\$17,373,143	\$5,446,559
	Wind	\$32,602,593	\$27,678,338	(\$4,924,255)	\$3,164,585	\$2,469,469	(\$695,116)	\$2,618,344	\$1,798,639	(\$819,704)
	Solar	\$0	\$1,367	\$1,367	\$0	\$589	\$589	\$0	\$0	\$0
	Square Butte	\$35,408,100	\$33,604,104	(\$1,803,996)	\$3,133,900	\$2,887,834	(\$246,066)	\$2,871,650	\$2,668,980	(\$202,670)
3	Plus: MISO Charges 1/	\$24,860,016	\$64,223,807	\$39,363,791	\$1,959,175	\$3,199,055	\$1,239,880	\$1,084,611	\$1,174,578	\$89,968
4	Less: MISO Schedules 16 & 17 & 24 1/	(\$214,567)	(\$79,627)	\$134,941	(\$17,567)	\$971	\$18,538	(\$15,018)	(\$1,692)	\$13,325
	Schedule 16	\$1,080,632	\$1,449,028	\$368,396	\$89,122	\$125,604	\$36,482	\$91,531	\$134,832	\$43,301
	Schedule 17	\$216,801	\$29,463	(\$187,337)	\$19,311	\$2,175	(\$17,136)	\$19,451	\$2,467	(\$16,984)
	Schedule 24	(\$1,512,000)	(\$1,558,118)	(\$46,118)	(\$126,000)	(\$126,809)	(\$809)	(\$126,000)	(\$138,992)	(\$12,992)
5	Less: Fuel Cost Recovered Through Inter-System Sales	\$127,835,782	\$160,780,204	\$32,944,422	\$11,593,540	\$8,979,177	(\$2,614,363)	\$9,862,846	\$9,312,197	(\$550,650)
	Customer Inter-System Sales	\$18,750,207	\$38,206,001	\$19,455,794	\$1,591,463	\$1,870,283	\$278,820	\$1,676,912	\$2,461,942	\$785,029
	Market Sales	\$51,064,029	\$80,514,350	\$29,450,321	\$4,823,649	\$4,034,828	(\$788,821)	\$3,726,683	\$4,176,549	\$449,866
	Station Service	\$204,031	\$217,526	\$13,495	\$4,367	\$15,678	\$11,312	\$4,367	\$10,560	\$6,193
	MISO Costs 1/	\$2,731,637	\$8,513,787	\$5,782,150	\$243,316	\$232,978	(\$10,338)	\$106,081	\$107,533	\$1,452
	Sales due to Retail and Resale Loss of Load	\$46,858,076	\$28,067,950	(\$18,790,127)	\$3,789,924	\$2,077,637	(\$1,712,287)	\$3,451,671	\$1,986,760	(\$1,464,911)
	Asset Based Margins	\$8,227,802	\$5,260,590	(\$2,967,212)	\$1,140,822	\$747,774	(\$393,049)	\$897,131	\$568,853	(\$328,278)
6	Less: Costs Related to Solar	\$0	\$1,366	\$1,366	\$0	\$589	\$589	\$0	(\$0)	(\$0)
7	Plus: Time of Generation and Solar Energy Adjustment	\$432,654	\$386,358	(\$46,296)	\$28,699	\$17,836	(\$10,863)	\$30,730	\$40,461	\$9,732
8	Plus: Significant Events Filing- HVDC Costs	\$8,423,738	\$0	(\$8,423,738)	\$0	\$0	\$0	\$0	\$0	\$0
9	Total Monthly Cost of Fuel	\$224,805,658	\$318,005,657	\$93,199,998	\$20,113,341	\$22,647,608	\$2,534,267	\$18,025,388	\$23,571,808	\$5,546,420
			% Difference	41%						

MWh Sales

10	Total Sales of Electricity	13,073,634	14,566,917	1,493,283	1,187,115	1,192,318	5,203	1,055,333	1,126,776	71,443
	Residential	1,034,896	1,043,665	8,769	116,575	109,690	(6,885)	97,879	113,228	15,349
	Commercial	1,121,024	1,174,413	53,389	98,606	97,946	(660)	92,832	103,262	10,430
	Industrial	4,592,122	5,542,593	950,471	394,098	483,950	89,852	364,621	444,158	79,537
	Lighting	12,106	10,445	(1,661)	1,380	1,278	(102)	1,129	1,073	(56)
	Municipal Pumpng	45,550	47,423	1,873	3,782	3,903	121	3,610	3,926	316
	Municipals	1,398,623	1,393,315	(5,308)	136,092	127,828	(8,264)	121,626	120,503	(1,123)
	Inter System Sales	4,869,313	5,355,063	485,749	436,582	367,724	(68,858)	373,636	340,626	(33,010)
11	Less: Inter-System Sales	4,869,313	5,355,063	485,749	436,582	367,724	(68,858)	373,636	340,626	(33,010)
	Customer Inter-System Sales	764,396	1,067,722	303,326	64,603	78,519	13,916	67,574	75,411	7,837
	Market Sales	2,236,937	3,412,055	1,175,118	214,846	208,128	(6,717)	164,120	197,694	33,574
	Station Service	7,885	6,126	(1,759)	149	725	575	149	321	171
	Sales due to Retail and Resale Loss of Load	1,860,096	869,160	(990,936)	156,984	80,352	(76,632)	141,792	67,200	(74,592)
12	Less: Solar Generation and Purchased MWh	16,357	17,215	858	862	710	(152)	1,110	1,357	247
13	Total Monthly MWh Sales	8,187,964	9,194,640	1,006,676	749,671	823,885	74,214	680,587	784,793	104,206
			% Difference	12%						

Fuel Adjustment Charge - Fuel Clause (¢/kWh)

14	1-Month Average Cost of Fuel (¢/kWh)	2.746	3.459	0.713	2.683	2.749	0.066	2.649	3.004	0.355
			YTD 2021			Jan-21			Feb-21	
			% Difference	26%						

1-Month Average Cost of Fuel by Energy Type (¢/kWh)

Billing Month:	Ref. No.	Description	YTD 2021			Jan-21			Feb-21		
			Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)
	15	Generation - Coal	0.495	0.646	0.151	0.649	0.774	0.125	0.719	0.903	0.184
	16	Generation - Gas	0.000	0.022	0.022	0.000	0.001	0.001	0.000	0.003	0.003
	17	Generation - BioFuel	0.004	0.037	0.033	0.000	0.015	0.015	0.000	0.049	0.049
	18	Purchased Power - Coal	0.065	0.125	0.060	0.155	0.107	(0.048)	0.148	0.097	(0.051)
	19	Purchased Power - Biomass	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	20	Purchased Power - Hydro	1.192	0.953	(0.239)	1.080	0.943	(0.137)	1.098	0.830	(0.267)
	21	Purchased Power - Gas	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	22	Purchased Power - Wind	0.393	0.272	(0.121)	0.422	0.271	(0.152)	0.385	0.210	(0.175)
	23	Purchased Power - Diesel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	24	Purchased Power - Solar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	25	Purchased Power - Unknown	0.482	1.415	0.933	0.377	0.638	0.261	0.299	0.913	0.614
	26	Total One-Month Average Cost 2/	2.631	3.471	0.840	2.683	2.749	0.066	2.649	3.004	0.355

B. Summary - Over/Under Recovery- 2021

Ref. No.	Revenue Class Over/Under Recovery	YTD 2021			Jan-21			Feb-21		
		Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)
1	Revenue Class Over/Under Recovery	\$214,366,713	\$270,204,980	(\$55,838,267)	\$18,700,368	\$19,159,730	(\$459,362)	\$17,653,029	\$20,020,503	(\$2,367,474)
	Residential	\$28,965,801	\$35,973,434	(\$7,007,633)	\$2,983,862	\$3,057,335	(\$73,473)	\$3,040,685	\$3,448,223	(\$407,538)
	Commercial	\$33,021,318	\$41,631,557	(\$8,610,239)	\$2,688,906	\$2,755,586	(\$66,680)	\$2,800,132	\$3,175,487	(\$375,355)
	Industrial	\$150,812,840	\$190,620,453	(\$39,807,613)	\$12,892,571	\$13,208,434	(\$315,863)	\$11,682,673	\$13,249,902	(\$1,567,229)
	Lighting	\$238,984	\$299,447	(\$60,463)	\$28,558	\$29,267	(\$709)	\$23,733	\$26,913	(\$3,180)
	Municipal Pumping	\$1,327,770	\$1,680,089	(\$352,319)	\$106,471	\$109,108	(\$2,637)	\$105,806	\$119,978	(\$14,172)
			% Difference	-26%						

A. Summary - Automatic Adjustment Charges:

Ref. No.	Revenue/Accounting Month	Mar-21			Apr-21			May-21		
		Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)
1	Company's Generating Stations	\$9,117,278	\$7,515,987	(\$1,601,291)	\$3,873,053	\$4,600,295	\$727,242	\$3,949,699	\$4,457,240	\$507,541
	Thermal	\$9,117,278	\$7,515,988	(\$1,601,290)	\$3,873,053	\$4,600,296	\$727,243	\$3,949,699	\$4,457,241	\$507,541
	Wind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Hydro	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Plus: Purchased Energy	\$18,081,039	\$17,378,802	(\$702,236)	\$20,444,132	\$20,984,640	\$540,509	\$21,036,645	\$21,457,750	\$421,106
	Market	\$12,351,660	\$12,572,596	\$220,936	\$14,353,668	\$15,249,495	\$895,826	\$15,352,241	\$16,913,794	\$1,561,553
	Wind	\$3,002,328	\$2,736,827	(\$265,501)	\$3,055,913	\$2,469,978	(\$585,935)	\$2,942,254	\$1,994,381	(\$947,873)
	Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Square Butte	\$2,727,050	\$2,069,380	(\$657,670)	\$3,034,550	\$3,265,167	\$230,617	\$2,742,150	\$2,549,575	(\$192,575)
3	Plus: MISO Charges 1/	\$1,870,549	\$3,195,437	\$1,324,888	\$1,655,867	\$7,852,589	\$6,196,722	\$1,531,933	\$2,435,943	\$904,010
4	Less: MISO Schedules 16 & 17 & 24 1/	(\$17,087)	(\$22,690)	(\$5,603)	(\$16,264)	\$24,249	\$40,512	(\$18,864)	\$10,660	\$29,524
	Schedule 16	\$90,111	\$92,294	\$2,183	\$92,067	\$147,470	\$55,402	\$90,415	\$139,658	\$49,243
	Schedule 17	\$18,802	\$2,194	(\$16,608)	\$17,669	\$3,116	(\$14,552)	\$16,721	\$2,307	(\$14,414)
	Schedule 24	(\$126,000)	(\$117,178)	\$8,822	(\$126,000)	(\$126,338)	(\$338)	(\$126,000)	(\$131,304)	(\$5,304)
5	Less: Fuel Cost Recovered Through Inter-System Sales	\$10,596,465	\$8,384,697	(\$2,211,768)	\$9,949,056	\$8,101,034	(\$1,848,022)	\$10,179,496	\$8,057,747	(\$2,121,749)
	Customer Inter-System Sales	\$1,473,653	\$2,137,573	\$663,920	\$1,495,450	\$2,069,360	\$573,911	\$1,593,759	\$1,930,152	\$336,394
	Market Sales	\$4,208,964	\$3,583,355	(\$625,609)	\$3,723,977	\$2,987,087	(\$736,890)	\$4,094,927	\$3,322,526	(\$772,400)
	Station Service	\$4,367	\$827	(\$3,540)	\$76,453	\$17,484	(\$58,969)	\$71,481	\$15,120	(\$56,361)
	MISO Costs 1/	\$211,615	\$275,244	\$63,629	\$140,176	\$556,437	\$416,261	\$158,186	\$158,450	\$264
	Sales due to Retail and Resale Loss of Load	\$3,859,893	\$1,811,444	(\$2,048,448)	\$3,930,100	\$2,315,584	(\$1,614,516)	\$3,920,101	\$1,963,359	(\$1,956,742)
	Asset Based Margins	\$837,974	\$576,255	(\$261,719)	\$582,901	\$155,081	(\$427,820)	\$341,042	\$668,139	\$327,097
6	Less: Costs Related to Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$0)	(\$0)
7	Plus: Time of Generation and Solar Energy Adjustment	\$35,184	\$39,809	\$4,626	\$44,757	\$34,930	(\$9,827)	\$47,518	\$38,485	(\$9,033)
8	Plus: Significant Events Filing- HVDC Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Total Monthly Cost of Fuel	\$18,524,671	\$19,768,028	\$1,243,358	\$16,085,016	\$25,347,172	\$9,262,156	\$16,405,163	\$20,321,011	\$3,915,848

MWh Sales

10	Total Sales of Electricity	1,117,519	1,171,880	54,361	1,023,648	1,077,004	53,356	1,066,127	1,092,043	25,916
	Residential	93,785	100,724	6,939	80,518	82,310	1,792	73,355	74,476	1,121
	Commercial	99,603	98,529	(1,074)	79,664	91,330	11,666	82,797	86,627	3,830
	Industrial	390,033	484,638	94,605	369,803	466,048	96,245	391,098	490,279	99,181
	Lighting	1,068	965	(103)	913	922	9	793	673	(120)
	Municipal Pumpng	3,929	3,707	(222)	3,733	3,602	(131)	3,481	3,499	18
	Municipals	125,534	115,362	(10,172)	104,949	102,702	(2,247)	104,293	103,988	(305)
	Inter System Sales	403,567	367,957	(35,611)	384,068	330,091	(53,978)	410,310	332,501	(77,809)
11	Less: Inter-System Sales	403,567	367,957	(35,611)	384,068	330,091	(53,978)	410,310	332,501	(77,809)
	Customer Inter-System Sales	60,129	88,066	27,937	60,864	81,443	20,579	66,140	74,866	8,726
	Market Sales	185,561	205,442	19,881	166,798	176,584	9,786	182,851	183,371	520
	Station Service	149	48	(101)	3,046	784	(2,262)	2,846	607	(2,239)
	Sales due to Retail and Resale Loss of Load	157,728	74,400	(83,328)	153,360	71,280	(82,080)	158,472	73,656	(84,816)
12	Less: Solar Generation and Purchased MWh	1,265	1,799	534	1,572	1,457	(115)	1,774	1,908	134
13	Total Monthly MWh Sales	712,687	802,124	89,438	638,008	745,456	107,448	654,043	757,634	103,591

Fuel Adjustment Charge - Fuel Clause (¢/kWh)

14	1-Month Average Cost of Fuel (¢/kWh)	2.599	2.464	(0.135)	2.521	3.400	0.879	2.508	2.682	0.174
		Mar-21			Apr-21			May-21		

1-Month Average Cost of Fuel by Energy Type (¢/kWh)

Billing Month:	Mar-21			Apr-21			May-21			
	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	
15	Generation - Coal	0.588	0.628	0.040	0.222	0.360	0.138	0.152	0.349	0.198
16	Generation - Gas	0.000	0.003	0.003	0.000	0.003	0.003	0.000	0.002	0.002
17	Generation - BioFuel	0.000	0.012	0.012	0.000	0.025	0.025	0.000	0.023	0.023
18	Purchased Power - Coal	0.135	0.060	(0.075)	0.053	0.139	0.086	0.033	0.124	0.091
19	Purchased Power - Biomass	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	Purchased Power - Hydro	0.979	0.894	(0.085)	1.188	0.978	(0.210)	1.378	1.039	(0.338)
21	Purchased Power - Gas	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	Purchased Power - Wind	0.353	0.310	(0.043)	0.479	0.300	(0.179)	0.450	0.238	(0.212)
23	Purchased Power - Diesel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	Purchased Power - Solar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	Purchased Power - Unknown	0.417	0.557	0.140	0.579	1.596	1.017	0.496	0.906	0.410
26	Total One-Month Average Cost 2/	2.472	2.464	(0.008)	2.521	3.400	0.879	2.508	2.682	0.174

B. Summary - Over/Under Recovery- 2021

Ref. No.	Revenue Class Over/Under Recovery	Mar-21			Apr-21			May-21		
		Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)
1	Revenue Class Over/Under Recovery	\$17,903,321	\$16,971,770	\$931,551	\$16,234,469	\$21,897,764	(\$5,663,295)	\$16,428,669	\$17,566,658	(\$1,137,989)
	Residential	\$2,654,522	\$2,516,560	\$137,962	\$2,103,326	\$2,837,349	(\$734,023)	\$1,893,555	\$2,025,351	(\$131,796)
	Commercial	\$2,621,030	\$2,485,012	\$136,018	\$2,355,271	\$3,176,166	(\$820,895)	\$2,222,588	\$2,376,445	(\$153,857)
	Industrial	\$12,508,748	\$11,857,363	\$651,385	\$11,663,976	\$15,733,365	(\$4,069,389)	\$12,209,069	\$13,054,244	(\$845,175)
	Lighting	\$20,952	\$19,868	\$1,084	\$19,422	\$26,185	(\$6,763)	\$14,133	\$15,116	(\$983)
	Municipal Pumping	\$98,069	\$92,967	\$5,102	\$92,474	\$124,699	(\$32,225)	\$89,324	\$95,502	(\$6,178)

A. Summary - Automatic Adjustment Charges:

Ref. No.	Revenue/Accounting Month	Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)
1	Company's Generating Stations	\$7,590,844	\$6,807,332	(\$783,512)	\$9,617,103	\$12,175,764	\$2,558,661	\$9,127,424	\$14,013,198	\$4,885,774
	Thermal	\$7,590,844	\$6,807,332	(\$783,512)	\$9,617,103	\$12,175,764	\$2,558,661	\$9,127,424	\$14,013,198	\$4,885,774
	Wind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Hydro	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Plus: Purchased Energy	\$17,933,330	\$27,605,714	\$9,672,383	\$19,043,447	\$26,025,682	\$6,982,235	\$17,874,658	\$22,054,775	\$4,180,116
	Market	\$12,616,767	\$23,513,766	\$10,896,999	\$13,920,520	\$21,652,329	\$7,731,808	\$13,165,484	\$17,723,428	\$4,557,944
	Wind	\$2,281,513	\$1,565,584	(\$715,929)	\$1,973,176	\$1,440,417	(\$532,759)	\$1,961,274	\$1,941,328	(\$19,946)
	Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Square Butte	\$3,035,050	\$2,526,363	(\$508,687)	\$3,149,750	\$2,932,936	(\$216,814)	\$2,747,900	\$2,390,019	(\$357,881)
3	Plus: MISO Charges 1/	\$2,148,503	\$7,322,378	\$5,173,875	\$3,556,068	\$2,734,789	(\$821,279)	\$2,034,626	\$5,160,922	\$3,126,295
4	Less: MISO Schedules 16 & 17 & 24 1/	(\$21,395)	(\$19,258)	\$2,137	(\$19,514)	(\$29,921)	(\$10,407)	(\$17,267)	(\$22,686)	(\$5,419)
	Schedule 16	\$87,854	\$115,112	\$27,257	\$88,300	\$92,502	\$4,202	\$91,027	\$112,243	\$21,215
	Schedule 17	\$16,750	\$2,653	(\$14,098)	\$18,186	\$2,645	(\$15,541)	\$17,706	\$2,454	(\$15,252)
	Schedule 24	(\$126,000)	(\$137,022)	(\$11,022)	(\$126,000)	(\$125,067)	\$933	(\$126,000)	(\$137,382)	(\$11,382)
5	Less: Fuel Cost Recovered Through Inter-System Sales	\$10,876,474	\$11,370,149	\$493,675	\$11,753,155	\$17,369,315	\$5,616,159	\$10,437,211	\$14,998,659	\$4,561,449
	Customer Inter-System Sales	\$1,515,387	\$2,747,560	\$1,232,173	\$1,603,926	\$6,361,451	\$4,757,525	\$1,645,753	\$3,301,690	\$1,655,937
	Market Sales	\$4,838,101	\$4,498,513	(\$339,587)	\$4,782,274	\$7,116,536	\$2,334,262	\$3,772,878	\$8,089,155	\$4,316,277
	Station Service	\$4,367	\$64,973	\$60,606	\$4,367	\$8,495	\$4,128	\$4,367	\$1,585	(\$2,782)
	MISO Costs 1/	\$278,548	\$511,666	\$233,118	\$420,245	\$393,887	(\$26,357)	\$197,320	\$933,484	\$736,164
	Sales due to Retail and Resale Loss of Load	\$3,881,571	\$2,911,258	(\$970,313)	\$4,286,895	\$2,311,103	(\$1,975,793)	\$3,955,165	\$2,181,360	(\$1,773,806)
	Asset Based Margins	\$358,500	\$636,179	\$277,678	\$655,448	\$1,177,843	\$522,395	\$861,728	\$491,387	(\$370,342)
6	Less: Costs Related to Solar	\$0	(\$0)	(\$0)	\$0	(\$0)	(\$0)	\$0	(\$0)	(\$0)
7	Plus: Time of Generation and Solar Energy Adjustment	\$39,956	\$45,780	\$5,824	\$56,431	\$42,816	(\$13,615)	\$47,891	\$46,572	(\$1,318)
8	Plus: Significant Events Filing- HVDC Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Total Monthly Cost of Fuel	\$16,857,554	\$30,430,312	\$13,572,758	\$20,539,407	\$23,639,657	\$3,100,250	\$18,664,656	\$26,299,493	\$7,634,837

MWh Sales

10	Total Sales of Electricity	1,068,396	1,104,637	36,241	1,122,063	1,293,682	171,619	1,077,704	1,281,979	204,275
	Residential	66,988	74,503	7,515	81,282	83,195	1,913	76,911	89,975	13,064
	Commercial	90,588	94,489	3,901	97,308	103,583	6,275	103,153	110,837	7,684
	Industrial	378,698	446,656	67,958	387,815	403,075	15,260	387,853	449,372	61,519
	Lighting	685	643	(42)	725	613	(112)	819	687	(132)
	Municipal Pumpng	3,743	3,568	(175)	4,165	4,143	(22)	4,017	4,722	705
	Municipals	105,411	111,727	6,316	120,321	118,621	(1,700)	113,924	116,173	2,249
	Inter System Sales	422,283	373,050	(49,233)	430,447	580,452	150,005	391,027	510,214	119,187
11	Less: Inter-System Sales	422,283	373,050	(49,233)	430,447	580,452	150,005	391,027	510,214	119,187
	Customer Inter-System Sales	62,349	85,424	23,075	64,738	163,059	98,321	67,275	83,640	16,365
	Market Sales	206,425	210,382	3,957	207,088	341,352	134,264	165,131	358,087	192,956
	Station Service	149	1,644	1,495	149	249	100	149	40	(109)
	Sales due to Retail and Resale Loss of Load	153,360	75,600	(77,760)	158,472	75,792	(82,680)	158,472	68,448	(90,024)
12	Less: Solar Generation and Purchased MWh	1,790	2,018	228	1,940	1,846	(94)	1,784	1,935	150
13	Total Monthly MWh Sales	644,323	729,568	85,245	689,676	711,384	21,708	684,893	769,830	84,938

Fuel Adjustment Charge - Fuel Clause (¢/kWh)

14	1-Month Average Cost of Fuel (¢/kWh)	2.616	4.171	1.555	2.978	3.323	0.345	2.725	3.416	0.691
		Jun-21			Jul-21			Aug-21		

1-Month Average Cost of Fuel by Energy Type (¢/kWh)

Billing Month:		Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)
15	Generation - Coal	0.393	0.519	0.126	0.623	0.950	0.327	0.643	0.953	0.310
16	Generation - Gas	0.000	0.043	0.043	0.001	0.005	0.004	0.000	0.025	0.025
17	Generation - BioFuel	0.000	0.041	0.041	0.026	0.051	0.025	0.020	0.038	0.018
18	Purchased Power - Coal	0.008	0.128	0.120	0.029	0.128	0.099	0.018	0.093	0.076
19	Purchased Power - Biomass	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	Purchased Power - Hydro	1.437	1.017	(0.420)	1.398	1.023	(0.375)	1.206	0.948	(0.258)
21	Purchased Power - Gas	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	Purchased Power - Wind	0.354	0.192	(0.162)	0.286	0.181	(0.105)	0.286	0.230	(0.057)
23	Purchased Power - Diesel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	Purchased Power - Solar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	Purchased Power - Unknown	0.424	2.230	1.807	0.616	0.987	0.371	0.552	1.129	0.577
26	Total One-Month Average Cost	2.616	4.171	1.555	2.978	3.323	0.345	2.725	3.416	0.691

B. Summary - Over/Under Recovery- 2021

	Jun-21			Jul-21			Aug-21			
	Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)	
1	Revenue Class Over/Under Recovery	\$16,212,546	\$25,851,068	(\$9,638,522)	\$17,731,340	\$19,787,445	(\$2,056,105)	\$17,877,933	\$22,414,996	(\$4,537,063)
	Residential	\$1,976,189	\$3,150,878	(\$1,174,689)	\$2,512,082	\$2,803,217	(\$291,135)	\$2,485,586	\$3,116,204	(\$630,618)
	Commercial	\$2,528,050	\$4,030,722	(\$1,502,672)	\$3,156,427	\$3,522,308	(\$365,881)	\$3,090,199	\$3,873,681	(\$783,482)
	Industrial	\$11,599,328	\$18,495,717	(\$6,896,389)	\$11,922,060	\$13,304,823	(\$1,382,763)	\$12,155,749	\$15,241,584	(\$3,085,835)
	Lighting	\$14,046	\$22,396	(\$8,350)	\$15,300	\$17,073	(\$1,773)	\$15,649	\$19,620	(\$3,971)
	Municipal Pumping	\$94,933	\$151,355	(\$56,422)	\$125,471	\$140,024	(\$14,553)	\$130,750	\$163,907	(\$33,157)

A. Summary - Automatic Adjustment Charges:

Ref. No.	Revenue/Accounting Month Cost of Fuel	Sep-21			Oct-21		
		Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)
1	Company's Generating Stations	\$5,664,662	\$9,138,439	\$3,473,777	\$7,628,183	\$9,285,329	\$1,657,146
	Thermal	\$5,664,662	\$9,138,439	\$3,473,777	\$7,628,183	\$9,285,329	\$1,657,146
	Wind	\$0	\$0	\$0	\$0	\$0	\$0
	Hydro	\$0	\$0	\$0	\$0	\$0	\$0
2	Plus: Purchased Energy	\$18,517,829	\$29,564,669	\$11,046,840	\$17,896,250	\$35,191,058	\$17,294,808
	Market	\$12,835,653	\$24,504,850	\$11,669,197	\$11,721,328	\$29,266,979	\$17,545,651
	Wind	\$2,646,626	\$2,327,244	(\$319,383)	\$3,025,171	\$3,016,880	(\$8,291)
	Solar	\$0	\$432	\$432	\$0	\$345	\$345
	Square Butte	\$3,035,550	\$2,732,143	(\$303,407)	\$3,149,750	\$2,906,853	(\$242,897)
3	Plus: MISO Charges 1/	\$2,565,671	\$5,608,740	\$3,043,069	\$2,626,370	\$7,626,719	\$5,000,349
4	Less: MISO Schedules 16 & 17 & 24 1/	(\$16,029)	(\$20,572)	(\$4,543)	(\$19,543)	(\$16,829)	\$2,714
	Schedule 16	\$92,439	\$111,708	\$19,269	\$88,733	\$111,906	\$23,173
	Schedule 17	\$17,532	\$2,181	(\$15,351)	\$17,724	\$2,110	(\$15,614)
	Schedule 24	(\$126,000)	(\$134,461)	(\$8,461)	(\$126,000)	(\$130,845)	(\$4,845)
5	Less: Fuel Cost Recovered Through Inter-System Sales	\$9,828,054	\$16,239,146	\$6,411,092	\$10,763,080	\$19,422,750	\$8,659,670
	Customer Inter-System Sales	\$1,603,465	\$3,907,219	\$2,303,754	\$1,275,987	\$4,322,790	\$3,046,803
	Market Sales	\$3,524,794	\$8,626,575	\$5,101,781	\$4,723,761	\$11,444,018	\$6,720,256
	Station Service	\$4,367	\$18,203	\$13,836	\$16,795	\$32,557	\$15,761
	MISO Costs 1/	\$200,587	\$902,939	\$702,352	\$329,947	\$1,213,519	\$883,571
	Sales due to Retail and Resale Loss of Load	\$3,969,592	\$2,558,332	(\$1,411,260)	\$4,129,256	\$2,638,879	(\$1,490,377)
	Asset Based Margins	\$525,250	\$225,879	(\$299,371)	\$287,332	(\$229,013)	(\$516,345)
6	Less: Costs Related to Solar	\$0	\$432	\$432	\$0	\$345	\$345
7	Plus: Time of Generation and Solar Energy Adjustment	\$34,510	\$34,242	(\$269)	\$31,753	\$22,976	(\$8,778)
8	Plus: Significant Events Filing- HVDC Costs	\$2,105,935	\$0	(\$2,105,935)	\$2,105,935	\$0	(\$2,105,935)
9	Total Monthly Cost of Fuel	\$19,076,581	\$28,127,084	\$9,050,502	\$19,544,953	\$32,719,815	\$13,174,862

MWh Sales

10	Total Sales of Electricity	1,015,116	1,246,005	230,888	1,082,856	1,297,181	214,325
	Residential	73,840	82,011	8,171	75,092	65,817	(9,275)
	Commercial	94,828	105,914	11,086	85,179	92,715	7,536
	Industrial	366,835	455,116	88,281	389,462	466,016	76,554
	Lighting	983	768	(215)	1,099	849	(250)
	Municipal Pumpng	3,736	4,572	836	3,848	4,256	408
	Municipals	104,812	101,173	(3,639)	113,294	111,651	(1,643)
	Inter System Sales	370,082	496,450	126,368	414,882	555,877	140,995
11	Less: Inter-System Sales	370,082	496,450	126,368	414,882	555,877	140,995
	Customer Inter-System Sales	64,719	87,458	22,739	51,614	89,747	38,133
	Market Sales	151,854	337,292	185,438	204,147	397,840	193,693
	Station Service	149	419	270	649	587	(62)
	Sales due to Retail and Resale Loss of Load	153,360	71,280	(82,080)	158,472	67,704	(90,768)
12	Less: Solar Generation and Purchased MWh	1,419	1,810	392	1,395	1,217	(178)
13	Total Monthly MWh Sales	643,615	747,744	104,129	666,579	740,087	73,508

Fuel Adjustment Charge - Fuel Clause (¢/kWh)

14	1-Month Average Cost of Fuel (¢/kWh)	2.964	3.762	0.798	2.932	4.421	1.489
		Sep-21			Oct-21		

1-Month Average Cost of Fuel by Energy Type (¢/kWh)

Billing Month:

	Sep-21			Oct-21			
	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	
15	Generation - Coal	0.366	0.396	0.030	0.433	0.391	(0.041)
16	Generation - Gas	0.000	0.047	0.047	0.000	0.123	0.123
17	Generation - BioFuel	0.000	0.038	0.038	0.000	0.057	0.057
18	Purchased Power - Coal	0.030	0.132	0.102	0.027	0.157	0.130
19	Purchased Power - Biomass	0.000	0.000	0.000	0.000	0.000	0.000
20	Purchased Power - Hydro	1.171	0.939	(0.232)	1.107	0.992	(0.115)
21	Purchased Power - Gas	0.000	0.000	0.000	0.000	0.000	0.000
22	Purchased Power - Wind	0.411	0.282	(0.130)	0.454	0.370	(0.083)
23	Purchased Power - Diesel	0.000	0.000	0.000	0.000	0.000	0.000
24	Purchased Power - Solar	0.000	0.000	0.000	0.000	0.000	0.000
25	Purchased Power - Unknown	0.659	1.928	1.269	0.596	2.330	1.734
26	Total One-Month Average Cost 2/	2.637	3.762	1.125	2.616	4.421	1.805

B. Summary - Over/Under Recovery- 2021

	Sep-21			Oct-21			
	Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)	
1	Revenue Class Over/Under Recovery	\$19,222,578	\$24,397,068	(\$5,174,490)	\$18,442,748	\$27,811,568	(\$9,368,820)
	Residential	\$2,464,726	\$3,128,054	(\$663,328)	\$1,956,202	\$2,949,766	(\$993,564)
	Commercial	\$3,210,832	\$4,075,382	(\$864,550)	\$2,779,227	\$4,190,651	(\$1,411,424)
	Industrial	\$13,390,341	\$16,994,762	(\$3,604,421)	\$13,559,799	\$20,448,727	(\$6,888,928)
	Lighting	\$19,034	\$24,160	(\$5,126)	\$20,768	\$31,319	(\$10,551)
	Municipal Pumping	\$137,645	\$174,710	(\$37,065)	\$126,752	\$191,105	(\$64,353)

A. Summary - Automatic Adjustment Charges:

Ref. No.	Revenue/Accounting Month Cost of Fuel	Nov-21			Dec-21		
		Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)
1	Company's Generating Stations	\$8,763,295	\$11,204,594	\$2,441,299	\$9,757,357	\$13,517,314	\$3,759,957
	Thermal	\$8,763,295	\$11,204,594	\$2,441,299	\$9,757,357	\$13,517,314	\$3,759,958
	Wind	\$0	\$0	\$0	\$0	\$0	\$0
	Hydro	\$0	\$0	\$0	\$0	\$0	\$0
2	Plus: Purchased Energy	\$17,169,428	\$30,668,162	\$13,498,734	\$19,165,493	\$30,371,965	\$11,206,471
	Market	\$11,504,064	\$25,313,158	\$13,809,094	\$13,118,649	\$23,134,524	\$10,015,875
	Wind	\$3,007,814	\$3,054,696	\$46,883	\$2,923,594	\$2,862,894	(\$60,700)
	Solar	\$0	\$0	\$0	\$0	\$0	\$0
	Square Butte	\$2,657,550	\$2,300,308	(\$357,242)	\$3,123,250	\$4,374,546	\$1,251,296
3	Plus: MISO Charges 1/	\$2,052,052	\$13,797,163	\$11,745,111	\$1,774,591	\$4,115,494	\$2,340,903
4	Less: MISO Schedules 16 & 17 & 24 1/	(\$19,177)	\$7,573	\$26,750	(\$16,843)	\$10,567	\$27,411
	Schedule 16	\$88,660	\$127,864	\$39,205	\$90,372	\$137,835	\$47,463
	Schedule 17	\$18,163	\$2,409	(\$15,755)	\$18,785	\$2,752	(\$16,033)
	Schedule 24	(\$126,000)	(\$122,700)	\$3,300	(\$126,000)	(\$130,020)	(\$4,020)
5	Less: Fuel Cost Recovered Through Inter-System Sales	\$10,671,023	\$20,322,706	\$9,651,683	\$11,325,381	\$18,222,626	\$6,897,246
	Customer Inter-System Sales	\$1,600,765	\$3,760,246	\$2,159,480	\$1,673,687	\$3,335,735	\$1,662,048
	Market Sales	\$4,262,379	\$11,777,545	\$7,515,166	\$4,581,642	\$10,857,662	\$6,276,020
	Station Service	\$4,367	\$21,538	\$17,171	\$4,367	\$10,508	\$6,141
	MISO Costs 1/	\$244,814	\$2,371,808	\$2,126,994	\$200,802	\$855,842	\$655,040
	Sales due to Retail and Resale Loss of Load	\$3,834,175	\$2,908,811	(\$925,364)	\$3,849,733	\$2,403,423	(\$1,446,309)
	Asset Based Margins	\$724,523	(\$517,242)	(\$1,241,765)	\$1,015,150	\$759,456	(\$255,694)
6	Less: Costs Related to Solar	\$0	(\$0)	(\$0)	\$0	(\$0)	(\$0)
7	Plus: Time of Generation and Solar Energy Adjustment	\$17,200	\$14,144	(\$3,056)	\$18,025	\$8,305	(\$9,720)
8	Plus: Significant Events Filing- HVDC Costs	\$2,105,935	\$0	(\$2,105,935)	\$2,105,935	\$0	(\$2,105,935)
9	Total Monthly Cost of Fuel	\$19,456,065	\$35,353,785	\$15,897,720	\$21,512,863	\$29,779,884	\$8,267,021

MWh Sales

10	Total Sales of Electricity	1,084,444	1,313,635	229,190	1,173,313	1,369,778	196,465
	Residential	86,635	75,158	(11,477)	112,036	92,579	(19,457)
	Commercial	91,150	92,397	1,247	105,316	96,785	(8,531)
	Industrial	380,074	472,071	91,997	391,732	481,215	89,483
	Lighting	1,199	929	(270)	1,313	1,045	(268)
	Municipal Pumpng	3,503	3,853	350	4,003	3,673	(330)
	Municipals	117,821	126,195	8,374	130,546	137,393	6,847
	Inter System Sales	404,062	543,033	138,970	428,367	557,088	128,721
11	Less: Inter-System Sales	404,062	543,033	138,970	428,367	557,088	128,721
	Customer Inter-System Sales	65,861	82,232	16,371	68,530	77,857	9,327
	Market Sales	185,412	389,115	203,703	202,704	406,768	204,064
	Station Service	149	405	256	149	295	146
	Sales due to Retail and Resale Loss of Load	152,640	71,280	(81,360)	156,984	72,168	(84,816)
12	Less: Solar Generation and Purchased MWh	758	746	(12)	688	411	(277)
13	Total Monthly MWh Sales	679,624	769,856	90,232	744,258	812,278	68,020

Fuel Adjustment Charge - Fuel Clause (¢/KWh)

14	1-Month Average Cost of Fuel (¢/kWh)	2.863	4.592	1.729	2.891	3.666	0.776
			Nov-21			Dec-21	

1-Month Average Cost of Fuel by Energy Type (¢/kWh)

Billing Month:

	Nov-21			Dec-21			
	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	
15	Generation - Coal	0.558	0.704	0.146	0.594	0.825	0.231
16	Generation - Gas	0.000	0.002	0.002	0.000	0.010	0.010
17	Generation - BioFuel	0.000	0.034	0.034	0.000	0.062	0.062
18	Purchased Power - Coal	0.013	0.119	0.107	0.132	0.216	0.084
19	Purchased Power - Biomass	0.000	0.000	0.000	0.000	0.000	0.000
20	Purchased Power - Hydro	1.159	0.921	(0.238)	1.101	0.913	(0.187)
21	Purchased Power - Gas	0.000	0.000	0.000	0.000	0.000	0.000
22	Purchased Power - Wind	0.443	0.360	(0.083)	0.393	0.321	(0.072)
23	Purchased Power - Diesel	0.000	0.000	0.000	0.000	0.000	0.000
24	Purchased Power - Solar	0.000	0.000	0.000	0.000	0.000	0.000
25	Purchased Power - Unknown	0.380	2.452	2.072	0.388	1.319	0.930
26	Total One-Month Average Cost 2/	2.553	4.592	2.039	2.608	3.666	1.059

B. Summary - Over/Under Recovery- 2021

	Nov-21			Dec-21			
	Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)	
1	Revenue Class Over/Under Recovery	\$18,437,806	\$29,572,976	(\$11,135,170)	\$19,521,906	\$24,753,434	(\$5,231,528)
	Residential	\$2,181,265	\$3,499,190	(\$1,317,925)	\$2,713,801	\$3,441,307	(\$727,506)
	Commercial	\$2,705,421	\$4,339,300	(\$1,633,879)	\$2,863,235	\$3,630,817	(\$767,582)
	Industrial	\$13,416,882	\$21,519,173	(\$8,102,291)	\$13,811,644	\$17,512,359	(\$3,700,715)
	Lighting	\$22,129	\$35,497	(\$13,368)	\$25,260	\$32,033	(\$6,773)
	Municipal Pumping	\$112,109	\$179,816	(\$67,707)	\$107,966	\$136,918	(\$28,952)

Thermal Generation															
Generation - Coal	YTD 2021			Jan-21			Feb-21			Mar-21			Apr-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 3	[Trade Secret Data Begins]														
MWh Average Cost															
Total Cost	\$ 42,328,802	\$ 46,778,306	\$ 4,449,504	\$ 4,356,644	\$ 3,903,627	\$ (453,017)	\$ 3,914,608	\$ 3,922,565	\$ 7,957	\$ 3,598,937	\$ 2,578,352	\$ (1,020,585)	\$ 3,722,320	\$ 4,212,993	\$ 490,673
Boswell 4	[Trade Secret Data Begins]														
MWh Average Cost															
Total Cost	\$ 51,953,851	\$ 53,449,013	\$ 1,495,162	\$ 6,235,075	\$ 4,716,113	\$ (1,518,962)	\$ 5,426,690	\$ 5,226,714	\$ (199,976)	\$ 5,518,342	\$ 4,699,604	\$ (818,738)	\$ 150,733	\$ 97,557	\$ (53,176)
Total Generation Coal \$	\$ 94,282,653	\$ 100,227,319	\$ 5,944,666	\$ 10,591,719	\$ 8,619,740	\$ (\$1,971,979)	\$ 9,341,298	\$ 9,149,279	\$ (\$192,019)	\$ 9,117,278	\$ 7,277,956	\$ (\$1,839,322)	\$ 3,873,053	\$ 4,310,550	\$ 437,497
Generation - Gas	[Trade Secret Data Begins]														
Laskin 1	[Trade Secret Data Begins]														
MWh Average Cost															
Total Cost	\$ 446,291	\$ 3,542,131	\$ 3,095,840	\$ -	\$ 288	\$ 288	\$ -	\$ 79,734	\$ 79,734	\$ -	\$ 61,136	\$ 61,136	\$ -	\$ 57,177	\$ 57,177
Laskin 2	[Trade Secret Data Begins]														
MWh Average Cost															
Total Cost	\$ -	\$ 3,287,399	\$ 3,287,399	\$ -	\$ 288	\$ 288	\$ -	\$ -	\$ -	\$ -	\$ 59,157	\$ 59,157	\$ -	\$ 23,952	\$ 23,952
Total Generation Gas \$	\$ 446,291	\$ 6,829,530	\$ 6,383,239	\$ 0	\$ 576	\$ 576	\$ 0	\$ 79,734	\$ 79,734	\$ 0	\$ 120,293	\$ 120,293	\$ 0	\$ 81,129	\$ 81,129
Generation - Biofuel	[Trade Secret Data Begins]														
Hibbard	[Trade Secret Data Begins]														
MWh Average Cost															
Total Cost	\$ 292,972	\$ 4,260,102	\$ 3,967,130	\$ -	\$ 154,631	\$ 154,631	\$ -	\$ 597,497	\$ 597,497	\$ -	\$ 117,739	\$ 117,739	\$ -	\$ 208,617	\$ 208,617
Total Generation Biofuel \$	\$ 292,972	\$ 4,260,102	\$ 3,967,130	\$ 0	\$ 154,631	\$ 154,631	\$ 0	\$ 597,497	\$ 597,497	\$ 0	\$ 117,739	\$ 117,739	\$ 0	\$ 208,617	\$ 208,617
Total Thermal Generation \$	\$ 95,021,916	\$ 111,316,951	\$ 16,295,035	\$ 10,591,719	\$ 8,774,947	\$ (\$1,816,773)	\$ 9,341,298	\$ 9,826,510	\$ 485,212	\$ 9,117,278	\$ 7,515,988	\$ (\$1,601,290)	\$ 3,873,053	\$ 4,600,296	\$ 727,243
		% Difference	17%												
Wind Generation															
Generation - Wind	YTD 2021			Jan-21			Feb-21			Mar-21			Apr-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Bison	[Trade Secret Data Begins]														
MWh Average Cost															
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tac Ridge	[Trade Secret Data Begins]														
MWh Average Cost															
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Wind Generation \$	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Hydro Generation															
Generation - Hydro	YTD 2021			Jan-21			Feb-21			Mar-21			Apr-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Hydro	[Trade Secret Data Begins]														
MWh Average Cost															
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Hydro Generation \$	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Total Company Generation	\$ 95,021,916	\$ 111,316,951	\$ 16,295,035	\$ 10,591,719	\$ 8,774,947	\$ (\$1,816,773)	\$ 9,341,298	\$ 9,826,510	\$ 485,212	\$ 9,117,278	\$ 7,515,988	\$ (\$1,601,290)	\$ 3,873,053	\$ 4,600,296	\$ 727,243
		% Difference	17%												

Thermal Generation																
		May-21			Jun-21			Jul-21			Aug-21			Sep-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Generation - Coal																
Boswell 3	MWh															
	Average Cost															
	Total Cost	\$ 3,472,482	\$ 4,110,756	\$ 638,274	\$ 3,215,763	\$ 4,533,850	\$ 1,318,087	\$ 3,914,364	\$ 4,604,796	\$ 690,432	\$ 3,790,233	\$ 5,095,385	\$ 1,305,152	\$ 1,168,703	\$ 2,059,043	\$ 890,340
Boswell 4	MWh															
	Average Cost															
	Total Cost	\$ 477,217	\$ -	\$ (477,217)	\$ 4,338,408	\$ 1,062,653	\$ (3,275,755)	\$ 5,346,670	\$ 6,748,169	\$ 1,401,499	\$ 5,111,957	\$ 7,118,404	\$ 2,006,447	\$ 4,456,334	\$ 4,654,134	\$ 197,800
Total Generation Coal		\$ 3,949,699	\$ 4,110,756	\$ 161,057	\$ 7,554,171	\$ 5,596,503	\$ (1,957,668)	\$ 9,261,033	\$ 11,352,965	\$ 2,091,932	\$ 8,902,190	\$ 12,213,789	\$ 3,311,599	\$ 5,625,037	\$ 6,713,177	\$ 1,088,140
Generation - Gas																
Laskin 1	MWh															
	Average Cost															
	Total Cost	\$ -	\$ 20,792	\$ 20,792	\$ 36,673	\$ 492,086	\$ 455,413	\$ 191,933	\$ 216,453	\$ 24,520	\$ 96,400	\$ 709,086	\$ 612,686	\$ 39,625	\$ 1,042,346	\$ 1,002,720
Laskin 2	MWh															
	Average Cost															
	Total Cost	\$ -	\$ 111,449	\$ 111,449	\$ -	\$ 289,055	\$ 289,055	\$ -	\$ 161,853	\$ 161,853	\$ -	\$ 729,926	\$ 729,926	\$ -	\$ 1,049,658	\$ 1,049,658
Total Generation Gas		\$ 0	\$ 132,241	\$ 132,241	\$ 36,673	\$ 781,141	\$ 744,468	\$ 191,933	\$ 378,306	\$ 186,373	\$ 96,400	\$ 1,439,012	\$ 1,342,612	\$ 39,625	\$ 2,092,004	\$ 2,052,379
Generation - Biofuel																
Hibbard	MWh															
	Average Cost															
	Total Cost	\$ -	\$ 214,244	\$ 214,244	\$ -	\$ 429,688	\$ 429,688	\$ 164,137	\$ 444,493	\$ 280,356	\$ 128,835	\$ 360,397	\$ 231,562	\$ -	\$ 333,258	\$ 333,258
Total Generation Biofuel		\$ 0	\$ 214,244	\$ 214,244	\$ 0	\$ 429,688	\$ 429,688	\$ 164,137	\$ 444,493	\$ 280,356	\$ 128,835	\$ 360,397	\$ 231,562	\$ 0	\$ 333,258	\$ 333,258
Total Thermal Generation		\$ 3,949,699	\$ 4,457,241	\$ 507,541	\$ 7,590,844	\$ 6,807,332	\$ (783,512)	\$ 9,617,103	\$ 12,175,764	\$ 2,558,661	\$ 9,127,424	\$ 14,013,198	\$ 4,885,774	\$ 5,664,662	\$ 9,138,439	\$ 3,473,777
Wind Generation																
		May-21			Jun-21			Jul-21			Aug-21			Sep-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Bison	MWh															
	Average Cost															
	Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tac Ridge	MWh															
	Average Cost															
	Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Wind Generation		\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Hydro Generation																
		May-21			Jun-21			Jul-21			Aug-21			Sep-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Hydro	MWh															
	Average Cost															
	Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Hydro Generation		\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
		May-21			Jun-21			Jul-21			Aug-21			Sep-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Total Company Generation		\$ 3,949,699	\$ 4,457,241	\$ 507,541	\$ 7,590,844	\$ 6,807,332	\$ (783,512)	\$ 9,617,103	\$ 12,175,764	\$ 2,558,661	\$ 9,127,424	\$ 14,013,198	\$ 4,885,774	\$ 5,664,662	\$ 9,138,439	\$ 3,473,777

Thermal Generation									
Generation - Coal	Oct-21			Nov-21			Dec-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 3	MWh								
Average Cost									
Total Cost	\$ 3,339,506	\$ 1,496,566	\$ (1,842,940)	\$ 3,736,790	\$ 4,749,629	\$ 1,012,839	\$ 4,098,453	\$ 5,510,744	\$ 1,412,291
									Trade Secret Data Ends]
Boswell 4	MWh								
Average Cost									
Total Cost	\$ 4,207,016	\$ 5,774,007	\$ 1,566,991	\$ 5,026,505	\$ 6,109,535	\$ 1,083,030	\$ 5,658,903	\$ 7,242,123	\$ 1,583,220
									Trade Secret Data Ends]
Total Generation Coal	\$ 7,546,522	\$ 7,270,573	(\$275,949)	\$8,763,295	\$10,859,164	\$2,095,869	\$9,757,357	\$12,752,867	\$2,995,510
Generation - Gas									
Laskin 1	MWh								
Average Cost									
Total Cost	\$ 81,661	\$ 734,629	\$ 652,968	\$ -	\$ 46,233	\$ 46,233	\$ -	\$ 82,171	\$ 82,171
									Trade Secret Data Ends]
Laskin 2	MWh								
Average Cost									
Total Cost	\$ -	\$ 797,244	\$ 797,244	\$ -	\$ -	\$ -	\$ -	\$ 64,817	\$ 64,817
									Trade Secret Data Ends]
Total Generation Gas	\$ 81,661	\$ 1,531,873	\$ 1,450,212	\$ 0	\$ 46,233	\$ 46,233	\$ 0	\$ 146,988	\$ 146,988
Generation - Biofuel									
Hibbard	MWh								
Average Cost									
Total Cost	\$ -	\$ 482,883	\$ 482,883	\$ -	\$ 299,197	\$ 299,197	\$ -	\$ 617,459	\$ 617,459
									Trade Secret Data Ends]
Total Generation Biofuel	\$ 0	\$ 482,883	\$ 482,883	\$ 0	\$ 299,197	\$ 299,197	\$ 0	\$ 617,459	\$ 617,459
Total Thermal Generation	\$ 7,628,183	\$ 9,285,329	\$ 1,657,146	\$ 8,763,295	\$ 11,204,594	\$ 2,441,299	\$ 9,757,357	\$ 13,517,314	\$ 3,759,958
Wind Generation									
Bison	MWh								
Average Cost									
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
									Trade Secret Data Ends]
Tac Ridge	MWh								
Average Cost									
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
									Trade Secret Data Ends]
Total Wind Generation	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Hydro Generation									
Hydro	MWh								
Average Cost									
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
									Trade Secret Data Ends]
Total Hydro Generation	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Total Company Generation	\$ 7,628,183	\$ 9,285,329	\$ 1,657,146	\$ 8,763,295	\$ 11,204,594	\$ 2,441,299	\$ 9,757,357	\$ 13,517,314	\$ 3,759,958

Purchase Power Market										
		YTD 2021			Jan-21			Feb-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Manitoba Hydro	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$101,888,147	\$102,549,433	\$661,286	\$8,182,886	\$8,831,809	\$648,923	\$7,484,176	\$7,226,533	(\$257,643)
MacQuarie Energy	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$0	\$4,994,940	\$4,994,940	\$0	\$0	\$0	\$0	\$0	\$0
Market Purchase	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$37,661,998	\$94,942,309	\$57,280,310	\$3,251,103	\$3,782,823	\$531,720	\$3,095,548	\$8,603,815	\$5,508,266
Minnkota Power	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$0	\$544,800	\$544,800	\$0	\$0	\$0	\$0	\$0	\$0
Minnkota Power- Station Service	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$360,000	\$507,516	\$147,516	\$30,000	\$29,612	(\$388)	\$30,000	\$21,760	(\$8,240)
Purchase to Serve Non-Firm Retail Customer	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$15,767,710	\$0	(\$15,767,710)	\$1,347,247	\$0	(\$1,347,247)	\$1,316,860	\$0	(\$1,316,860)
IMO (Ontario Market Operator)	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$0	\$36,407	\$36,407	\$0	\$0	\$0	\$0	\$0	\$0
AEP Energy Partners	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$0	\$5,579,300	\$5,579,300	\$0	\$1,124,370	\$1,124,370	\$0	\$1,015,560	\$1,015,560
Shell Energy North America	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$0	\$7,632,060	\$7,632,060	\$0	\$0	\$0	\$0	\$0	\$0
NextEra Energy	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$0	\$23,297,399	\$23,297,399	\$0	\$401,510	\$401,510	\$0	\$362,900	\$362,900
The Energy Authority	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$0	\$52,800	\$52,800	\$0	\$0	\$0	\$0	\$0	\$0
Other Purchases	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$0	\$1,359,714	\$1,359,714	\$0	\$108,492	\$108,492	\$0	\$142,576	\$142,576
Total Purchase Power Market \$		\$155,677,856	\$241,496,678	\$85,818,822	\$12,811,236	\$14,278,615	\$1,467,379	\$11,926,584	\$17,373,143	\$5,446,559
			% Difference	55%						
Purchase Power Wind										
		YTD 2021			Jan-21			Feb-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Oliver 1	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$4,203,913	\$2,919,748	(\$1,284,165)	\$439,936	\$294,167	(\$145,769)	\$316,603	\$205,620	(\$110,982)
Oliver 2	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$6,848,279	\$5,681,911	(\$1,166,367)	\$735,097	\$499,549	(\$235,548)	\$528,384	\$472,174	(\$56,210)
Wing River	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$243,930	\$72,459	(\$171,471)	\$22,455	\$10,712	(\$11,743)	\$19,498	\$12,481	(\$7,016)
Nobles	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$21,306,472	\$19,004,220	(\$2,302,252)	\$1,967,097	\$1,665,041	(\$302,056)	\$1,753,859	\$1,108,364	(\$645,495)
Total Purchase Power Wind \$		\$32,602,593	\$27,678,338	(\$4,924,255)	\$3,164,585	\$2,469,469	(\$695,116)	\$2,618,344	\$1,798,639	(\$819,704)
			% Difference	-15%						
Purchase Power Solar										
		YTD 2021			Jan-21			Feb-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Solar Subscription Cancellations	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$0	\$1,367	\$1,367	\$0	\$589	\$589	\$0	\$0	\$0
Total Purchase Power Solar \$		\$0	\$1,367	\$1,367	\$0	\$589	\$589	\$0	\$0	\$0
			% Difference	136655%						
Purchase Power- Square Butte										
		YTD 2021			Jan-21			Feb-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Square Butte	MWh	(Trade Secret Data Begins)								
	Average Cost									
	Total Cost	\$35,408,100	\$33,604,104	(\$1,803,996)	\$3,133,900	\$2,887,834	(\$246,066)	\$2,871,650	\$2,668,980	(\$202,670)
Total Purchase Power Coal \$		\$35,408,100	\$33,604,104	(\$1,803,996)	\$3,133,900	\$2,887,834	(\$246,066)	\$2,871,650	\$2,668,980	(\$202,670)
			% Difference	-5%						
Total Company Purchase Power										
		YTD 2021			Jan-21			Feb-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
		\$223,688,549	\$302,780,486	\$79,091,938	\$19,109,721	\$19,636,507	\$526,786	\$17,416,578	\$21,840,763	\$4,424,185
			% Difference	35%						

Purchase Power Market										
		Mar-21			Apr-21			May-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Manitoba Hydro	MWh Average Cost									
	Total Cost	\$8,327,320	\$8,347,022	\$19,702	\$8,046,272	\$9,731,970	\$1,685,698	\$9,754,237	\$10,399,324	\$645,087
MacQuarie Energy	MWh Average Cost									
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Purchase	MWh Average Cost									
	Total Cost	\$2,756,275	\$2,544,931	(\$211,344)	\$5,032,480	\$5,414,510	\$382,029	\$4,173,327	\$6,001,699	\$1,828,372
Minnkota Power	MWh Average Cost									
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Minnkota Power- Station Service	MWh Average Cost									
	Total Cost	\$30,000	\$82,871	\$52,871	\$30,000	\$24,705	(\$5,295)	\$30,000	\$12,806	(\$17,194)
Purchase to Serve Non-Firm Retail Customer	MWh Average Cost									
	Total Cost	\$1,238,065	\$0	(\$1,238,065)	\$1,244,916	\$0	(\$1,244,916)	\$1,394,676	\$0	(\$1,394,676)
IMO (Ontario Market Operator)	MWh Average Cost									
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,482	\$2,482
AEP Energy Partners	MWh Average Cost									
	Total Cost	\$0	\$1,124,370	\$1,124,370	\$0	\$0	\$0	\$0	\$154,200	\$154,200
Shell Energy North America	MWh Average Cost									
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,600	\$150,600
NextEra Energy	MWh Average Cost									
	Total Cost	\$0	\$401,510	\$401,510	\$0	\$2,540	\$2,540	\$0	\$2,540	\$2,540
The Energy Authority	MWh Average Cost									
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Purchases	MWh Average Cost									
	Total Cost	\$0	\$71,892	\$71,892	\$0	\$75,770	\$75,770	\$0	\$190,142	\$190,142
Total Purchase Power Market \$		\$12,351,660	\$12,572,596	\$220,936	\$14,353,668	\$15,249,495	\$895,826	\$15,352,241	\$16,913,794	\$1,561,553
Purchase Power Wind										
		Mar-21			Apr-21			May-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Oliver 1	MWh Average Cost									
	Total Cost	\$383,592	\$261,268	(\$122,324)	\$365,411	\$206,507	(\$158,904)	\$360,584	\$57,850	(\$302,733)
Oliver 2	MWh Average Cost									
	Total Cost	\$638,100	\$559,659	(\$78,440)	\$604,840	\$405,612	(\$199,228)	\$590,765	\$210,352	(\$380,413)
Wing River	MWh Average Cost									
	Total Cost	\$21,735	\$19,819	(\$1,916)	\$23,785	\$16,153	(\$7,632)	\$22,606	\$11,956	(\$10,650)
Nobles	MWh Average Cost									
	Total Cost	\$1,958,902	\$1,896,081	(\$62,821)	\$2,061,878	\$1,841,707	(\$220,171)	\$1,968,299	\$1,714,223	(\$254,076)
Total Purchase Power Wind \$		\$3,002,328	\$2,736,827	(\$265,501)	\$3,055,913	\$2,469,978	(\$585,935)	\$2,942,254	\$1,994,381	(\$947,873)
Purchase Power Solar										
		Mar-21			Apr-21			May-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Solar Subscription Cancellations	MWh Average Cost									
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Purchase Power Solar \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Purchase Power- Square Butte										
		Mar-21			Apr-21			May-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Square Butte	MWh Average Cost									
	Total Cost	\$2,727,050	\$2,069,380	(\$657,670)	\$3,034,550	\$3,265,167	\$230,617	\$2,742,150	\$2,549,575	(\$192,575)
Total Purchase Power Coal \$		\$2,727,050	\$2,069,380	(\$657,670)	\$3,034,550	\$3,265,167	\$230,617	\$2,742,150	\$2,549,575	(\$192,575)
Total Company Purchase Power										
		Mar-21			Apr-21			May-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
		\$18,081,039	\$17,378,802	(\$702,236)	\$20,444,132	\$20,984,640	\$540,509	\$21,036,645	\$21,457,751	\$421,106

Purchase Power Market										
		Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Manitoba Hydro	MWh Average Cost									
	Total Cost	\$9,482,210	\$9,811,345	\$329,136	\$9,777,270	\$8,298,125	(\$1,479,145)	\$8,279,174	\$8,015,615	(\$263,559)
MacQuarie Energy	MWh Average Cost									
	Total Cost	\$0	\$1,140,300	\$1,140,300	\$0	\$1,563,840	\$1,563,840	\$0	\$0	\$0
Market Purchase	MWh Average Cost									
	Total Cost	\$1,824,194	\$11,449,328	\$9,625,133	\$2,744,879	\$9,118,809	\$6,373,930	\$3,427,381	\$7,394,195	\$3,966,814
Minnkota Power	MWh Average Cost									
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Minnkota Power- Station Service	MWh Average Cost									
	Total Cost	\$30,000	\$30,216	\$216	\$30,000	\$33,060	\$3,060	\$30,000	\$36,558	\$6,558
Purchase to Serve Non-Firm Retail Customer	MWh Average Cost									
	Total Cost	\$1,280,363	\$0	(\$1,280,363)	\$1,368,372	\$0	(\$1,368,372)	\$1,428,930	\$0	(\$1,428,930)
IMO (Ontario Market Operator)	MWh Average Cost									
	Total Cost	\$0	\$28,235	\$28,235	\$0	\$5,690	\$5,690	\$0	\$0	\$0
AEP Energy Partners	MWh Average Cost									
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Shell Energy North America	MWh Average Cost									
	Total Cost	\$0	\$266,400	\$266,400	\$0	\$1,451,880	\$1,451,880	\$0	\$1,223,880	\$1,223,880
NextEra Energy	MWh Average Cost									
	Total Cost	\$0	\$662,565	\$662,565	\$0	\$1,094,157	\$1,094,157	\$0	\$997,557	\$997,557
The Energy Authority	MWh Average Cost									
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Purchases	MWh Average Cost									
	Total Cost	\$0	\$125,377	\$125,377	\$0	\$86,768	\$86,768	\$0	\$55,623	\$55,623
Total Purchase Power Market \$		\$12,616,767	\$23,513,766	\$10,896,999	\$13,920,520	\$21,652,329	\$7,731,808	\$13,165,484	\$17,723,428	\$4,557,944
Purchase Power Wind										
		Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Oliver 1	MWh Average Cost									
	Total Cost	\$285,085	\$151,891	(\$133,193)	\$260,523	\$107,697	(\$152,826)	\$273,303	\$229,427	(\$43,876)
Oliver 2	MWh Average Cost									
	Total Cost	\$451,596	\$266,223	(\$185,374)	\$401,442	\$339,948	(\$61,494)	\$425,350	\$449,082	\$23,732
Wing River	MWh Average Cost									
	Total Cost	\$16,729	\$832	(\$15,896)	\$14,700	\$506	(\$14,194)	\$13,693	\$0	(\$13,693)
Nobles	MWh Average Cost									
	Total Cost	\$1,528,103	\$1,146,637	(\$381,466)	\$1,296,511	\$992,267	(\$304,244)	\$1,248,928	\$1,262,818	\$13,890
Total Purchase Power Wind \$		\$2,281,513	\$1,565,584	(\$715,929)	\$1,973,176	\$1,440,417	(\$532,759)	\$1,961,274	\$1,941,328	(\$19,946)
Purchase Power Solar										
		Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Solar Subscription Cancellations	MWh Average Cost									
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Purchase Power Solar \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Purchase Power- Square Butte										
		Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Square Butte	MWh Average Cost									
	Total Cost	\$3,035,050	\$2,526,363	(\$508,687)	\$3,149,750	\$2,932,936	(\$216,814)	\$2,747,900	\$2,390,019	(\$357,881)
Total Purchase Power Coal \$		\$3,035,050	\$2,526,363	(\$508,687)	\$3,149,750	\$2,932,936	(\$216,814)	\$2,747,900	\$2,390,019	(\$357,881)
Total Company Purchase Power										
		Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Total Company Purchase Power		\$17,933,330	\$27,605,714	\$9,672,383	\$19,043,447	\$26,025,682	\$6,982,235	\$17,874,658	\$22,054,775	\$4,180,116

Purchase Power Market						
	Sep-21			Oct-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Manitoba Hydro	MWh					
Average Cost						
Total Cost	\$7,998,126	\$7,764,400	(\$233,726)	\$8,231,030	\$8,086,136	(\$144,894)
MacQuarie Energy	MWh					
Average Cost						
Total Cost	\$0	\$100,800	\$100,800	\$0	\$765,000	\$765,000
Market Purchase	MWh					
Average Cost						
Total Cost	\$3,469,399	\$13,492,199	\$10,022,801	\$2,417,131	\$10,562,226	\$8,145,094
Minnkota Power	MWh					
Average Cost						
Total Cost	\$0	\$544,800	\$544,800	\$0	\$0	\$0
Minnkota Power- Station Service	MWh					
Average Cost						
Total Cost	\$30,000	\$37,196	\$7,196	\$30,000	\$47,720	\$17,720
Purchase to Serve Non-Firm Retail Customer	MWh					
Average Cost						
Total Cost	\$1,338,128	\$0	(\$1,338,128)	\$1,043,167	\$0	(\$1,043,167)
IMO (Ontario Market Operator)	MWh					
Average Cost						
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0
AEP Energy Partners	MWh					
Average Cost						
Total Cost	\$0	\$0	\$0	\$0	\$754,800	\$754,800
Shell Energy North America	MWh					
Average Cost						
Total Cost	\$0	\$1,232,400	\$1,232,400	\$0	\$1,655,400	\$1,655,400
NextEra Energy	MWh					
Average Cost						
Total Cost	\$0	\$1,219,485	\$1,219,485	\$0	\$7,271,205	\$7,271,205
The Energy Authority	MWh					
Average Cost						
Total Cost	\$0	\$52,800	\$52,800	\$0	\$0	\$0
Other Purchases	MWh					
Average Cost						
Total Cost	\$0	\$60,770	\$60,770	\$0	\$124,491	\$124,491
Total Purchase Power Market \$	\$12,835,653	\$24,504,850	\$11,669,197	\$11,721,328	\$29,266,979	\$17,545,651
Purchase Power Wind						
	Sep-21			Oct-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Oliver 1	MWh					
Average Cost						
Total Cost	\$357,516	\$319,975	(\$37,541)	\$395,065	\$415,836	\$20,771
Oliver 2	MWh					
Average Cost						
Total Cost	\$557,505	\$554,728	(\$2,777)	\$657,339	\$700,105	\$42,765
Wing River	MWh					
Average Cost						
Total Cost	\$20,233	\$0	(\$20,233)	\$22,934	\$0	(\$22,934)
Nobles	MWh					
Average Cost						
Total Cost	\$1,711,372	\$1,452,540	(\$258,832)	\$1,949,833	\$1,900,940	(\$48,893)
Total Purchase Power Wind \$	\$2,646,626	\$2,327,244	(\$319,383)	\$3,025,171	\$3,016,880	(\$8,291)
Purchase Power Solar						
	Sep-21			Oct-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Solar Subscription Cancellations	MWh					
Average Cost						
Total Cost	\$0	\$432	\$432	\$0	\$345	\$345
Total Purchase Power Solar \$	\$0	\$432	\$432	\$0	\$345	\$345
Purchase Power- Square Butte						
	Sep-21			Oct-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Square Butte	MWh					
Average Cost						
Total Cost	\$3,035,550	\$2,732,143	(\$303,407)	\$3,149,750	\$2,906,853	(\$242,897)
Total Purchase Power Coal \$	\$3,035,550	\$2,732,143	(\$303,407)	\$3,149,750	\$2,906,853	(\$242,897)
Total Company Purchase Power						
	Sep-21			Oct-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Total Company Purchase Power	\$18,517,829	\$29,564,669	\$11,046,840	\$17,896,250	\$35,191,058	\$17,294,808

Purchase Power Market						
	Nov-21			Dec-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Manitoba Hydro	MWh					
Average Cost						
Total Cost	\$7,998,126	\$7,885,286	(\$112,840)	\$8,327,320	\$8,151,866	(\$175,454)
						Trade Secret Data Ends]
MacQuarie Energy	MWh					
Average Cost						
Total Cost	\$0	\$720,000	\$720,000	\$0	\$705,000	\$705,000
						Trade Secret Data Ends]
Market Purchase	MWh					
Average Cost						
Total Cost	\$2,126,066	\$7,239,435	\$5,113,369	\$3,344,215	\$9,338,340	\$5,994,125
						Trade Secret Data Ends]
Minnkota Power	MWh					
Average Cost						
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0
						Trade Secret Data Ends]
Minnkota Power- Station Service	MWh					
Average Cost						
Total Cost	\$30,000	\$60,133	\$30,133	\$30,000	\$90,878	\$60,878
						Trade Secret Data Ends]
Purchase to Serve Non-Firm Retail Customer	MWh					
Average Cost						
Total Cost	\$1,349,872	\$0	(\$1,349,872)	\$1,417,114	\$0	(\$1,417,114)
						Trade Secret Data Ends]
IMO (Ontario Market Operator)	MWh					
Average Cost						
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0
						Trade Secret Data Ends]
AEP Energy Partners	MWh					
Average Cost						
Total Cost	\$0	\$710,400	\$710,400	\$0	\$695,600	\$695,600
						Trade Secret Data Ends]
Shell Energy North America	MWh					
Average Cost						
Total Cost	\$0	\$1,602,000	\$1,602,000	\$0	\$49,500	\$49,500
						Trade Secret Data Ends]
NextEra Energy	MWh					
Average Cost						
Total Cost	\$0	\$7,013,925	\$7,013,925	\$0	\$3,867,505	\$3,867,505
						Trade Secret Data Ends]
The Energy Authority	MWh					
Average Cost						
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0
						Trade Secret Data Ends]
Other Purchases	MWh					
Average Cost						
Total Cost	\$0	\$81,979	\$81,979	\$0	\$235,835	\$235,835
						Trade Secret Data Ends]
Total Purchase Power Market \$	\$11,504,064	\$25,313,158	\$13,809,094	\$13,118,649	\$23,134,524	\$10,015,875
Purchase Power Wind						
	Nov-21			Dec-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Oliver 1	MWh					
Average Cost						
Total Cost	\$399,027	\$357,465	(\$41,562)	\$367,269	\$312,044	(\$55,225)
						Trade Secret Data Ends]
Oliver 2	MWh					
Average Cost						
Total Cost	\$625,871	\$638,159	\$12,288	\$631,989	\$586,320	(\$45,670)
						Trade Secret Data Ends]
Wing River	MWh					
Average Cost						
Total Cost	\$23,605	\$0	(\$23,605)	\$21,956	\$0	(\$21,956)
						Trade Secret Data Ends]
Nobles	MWh					
Average Cost						
Total Cost	\$1,959,310	\$2,059,072	\$99,762	\$1,902,380	\$1,964,531	\$62,151
						Trade Secret Data Ends]
Total Purchase Power Wind \$	\$3,007,814	\$3,054,696	\$46,883	\$2,923,594	\$2,862,894	(\$60,700)
Purchase Power Solar						
	Nov-21			Dec-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Solar Subscription Cancellations	MWh					
Average Cost						
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0
						Trade Secret Data Ends]
Total Purchase Power Solar \$	\$0	\$0	\$0	\$0	\$0	\$0
Purchase Power- Square Butte						
	Nov-21			Dec-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Square Butte	MWh					
Average Cost						
Total Cost	\$2,657,550	\$2,300,308	(\$357,242)	\$3,123,250	\$4,374,546	\$1,251,296
						Trade Secret Data Ends]
Total Purchase Power Coal \$	\$2,657,550	\$2,300,308	(\$357,242)	\$3,123,250	\$4,374,546	\$1,251,296
	Nov-21			Dec-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Total Company Purchase Power	\$17,169,428	\$30,668,162	\$13,498,734	\$19,165,493	\$30,371,965	\$11,206,471

Purchase Power- Coal		YTD 2021			Jan-21			Feb-21			Mar-21			Apr-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Square Butte		MWh Average Cost														
Total Cost		\$35,408,100	\$33,604,104	(\$1,803,996)	\$3,133,900	\$2,887,834	(\$246,066)	\$2,871,650	\$2,668,980	(\$202,670)	\$2,727,050	\$2,069,380	(\$657,670)	\$3,034,550	\$3,265,167	\$230,617
Total Purchase Power Coal \$		\$35,408,100	\$33,604,104	(\$1,803,996)	\$3,133,900	\$2,887,834	(\$246,066)	\$2,871,650	\$2,668,980	(\$202,670)	\$2,727,050	\$2,069,380	(\$657,670)	\$3,034,550	\$3,265,167	\$230,617
		% Difference -5%														
Purchase Power Biomass		MWh Average Cost														
Total Cost		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Purchase Power Biomass \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		% Difference 0%														
Purchase Power Hydro		MWh Average Cost														
MHEB		MWh Average Cost														
Total Cost		\$101,888,147	\$102,549,433	\$661,286	\$8,182,886	\$8,831,809	\$648,923	\$7,484,176	\$7,226,533	(\$257,643)	\$8,327,320	\$8,347,022	\$19,702	\$8,046,272	\$9,731,970	\$1,685,698
Total Purchase Power Hydro \$		\$101,888,147	\$102,549,433	\$661,286	\$8,182,886	\$8,831,809	\$648,923	\$7,484,176	\$7,226,533	(\$257,643)	\$8,327,320	\$8,347,022	\$19,702	\$8,046,272	\$9,731,970	\$1,685,698
		% Difference 1%														
Purchase Power Gas		MWh Average Cost														
Total Cost		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Purchase Power Gas \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		% Difference 0%														
Purchase Power Wind		MWh Average Cost														
Oliver 1		MWh Average Cost														
Total Cost		\$4,203,913	\$2,919,748	(\$1,284,165)	\$439,936	\$294,167	(\$145,769)	\$316,603	\$205,620	(\$110,982)	\$383,592	\$261,268	(\$122,324)	\$365,411	\$206,507	(\$158,904)
Oliver 2		MWh Average Cost														
Total Cost		\$6,848,279	\$5,681,911	(\$1,166,367)	\$735,097	\$499,549	(\$235,548)	\$528,384	\$472,174	(\$56,210)	\$638,100	\$559,659	(\$78,440)	\$604,840	\$405,612	(\$199,228)
Wing River		MWh Average Cost														
Total Cost		\$243,930	\$72,459	(\$171,471)	\$22,455	\$10,712	(\$11,743)	\$19,498	\$12,481	(\$7,016)	\$21,735	\$19,819	(\$1,916)	\$23,785	\$16,153	(\$7,632)
Nobles		MWh Average Cost														
Total Cost		\$21,306,472	\$19,004,220	(\$2,302,252)	\$1,967,097	\$1,665,041	(\$302,056)	\$1,753,859	\$1,108,364	(\$645,495)	\$1,958,902	\$1,896,081	(\$62,821)	\$2,061,878	\$1,841,707	(\$220,171)
Total Purchase Power Wind \$		\$32,602,593	\$27,678,338	(\$4,924,255)	\$3,164,585	\$2,469,469	(\$695,116)	\$2,618,344	\$1,798,639	(\$819,704)	\$3,002,328	\$2,736,827	(\$265,501)	\$3,055,913	\$2,469,978	(\$585,935)
		% Difference -15%														
Purchase Power Diesel		MWh Average Cost														
Total Cost		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Purchase Power Diesel \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		% Difference 0%														
Purchase Power Solar		MWh Average Cost														
Solar Subscription Cancellations		MWh Average Cost														
Total Cost		\$0	\$1,367	\$1,367	\$0	\$589	\$589	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Purchase Power Solar \$		\$0	\$1,367	\$1,367	\$0	\$589	\$589	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		% Difference 136655%														
Purchase Power Unknown		MWh Average Cost														
Market Purchase		MWh Average Cost														
Total Cost		\$37,661,998	\$94,942,309	\$57,280,310	\$3,251,103	\$3,782,823	\$531,720	\$3,095,548	\$8,603,815	\$5,508,266	\$2,756,275	\$2,544,931	(\$211,344)	\$5,032,480	\$5,414,510	\$382,029
MacQuarie Energy		MWh Average Cost														
Total Cost		\$0	\$4,994,940	\$4,994,940	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Minnkota Power		MWh Average Cost														
Total Cost		\$0	\$544,800	\$544,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Minnkota Power- Station Service		MWh Average Cost														
Total Cost		\$360,000	\$507,516	\$147,516	\$30,000	\$29,612	(\$388)	\$30,000	\$21,760	(\$8,240)	\$30,000	\$82,871	\$52,871	\$30,000	\$24,705	(\$5,295)
Purchase to Serve Non Retail FAC Customer		MWh Average Cost														
Total Cost		\$15,767,710	\$0	(\$15,767,710)	\$1,347,247	\$0	(\$1,347,247)	\$1,316,860	\$0	(\$1,316,860)	\$1,238,065	\$0	(\$1,238,065)	\$1,244,916	\$0	(\$1,244,916)
IMO (Ontario Market Operator)		MWh Average Cost														
Total Cost		\$0	\$36,407	\$36,407	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AEP Energy Partners		MWh Average Cost														
Total Cost		\$0	\$5,579,300	\$5,579,300	\$0	\$1,124,370	\$1,124,370	\$0	\$1,015,560	\$1,015,560	\$0	\$1,124,370	\$1,124,370	\$0	\$0	\$0
Shell Energy North America		MWh Average Cost														
Total Cost		\$0	\$7,632,060	\$7,632,060	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NextEra Energy		MWh Average Cost														
Total Cost		\$0	\$23,297,399	\$23,297,399	\$0	\$401,510	\$401,510	\$0	\$362,900	\$362,900	\$0	\$401,510	\$401,510	\$0	\$2,540	\$2,540
The Energy Authority		MWh Average Cost														
Total Cost		\$0	\$52,800	\$52,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Purchases		MWh Average Cost														
Total Cost		\$0	\$1,359,714	\$1,359,714	\$0	\$108,492	\$108,492	\$0	\$142,576	\$142,576	\$0	\$71,892	\$71,892	\$0	\$75,770	\$75,770
Total Purchase Power Unknown \$		\$53,789,709	\$138,947,245	\$85,157,536	\$4,628,350	\$5,446,806	\$818,456	\$4,442,408	\$10,146,610	\$5,704,202	\$4,024,340	\$4,225,574	\$201,234	\$6,307,396	\$5,517,525	(\$789,872)
		% Difference 158%														
Total Company Purchase Power		\$223,688,549	\$302,780,486	\$79,091,938	\$19,109,721	\$19,636,507	\$526,786	\$17,416,578	\$21,840,763	\$4,424,185	\$18,081,039	\$17,378,802	(\$702,236)	\$20,444,132	\$20,984,640	\$540,509

Purchase Power- Coal													
		Sep-21			Oct-21			Nov-21			Dec-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Square Butte	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$3,035,550	\$2,732,143	(\$303,407)	\$3,149,750	\$2,906,853	(\$242,897)	\$2,657,550	\$2,300,308	(\$357,242)	\$3,123,250	\$4,374,546	\$1,251,296
	Total Purchase Power Coal \$	\$3,035,550	\$2,732,143	(\$303,407)	\$3,149,750	\$2,906,853	(\$242,897)	\$2,657,550	\$2,300,308	(\$357,242)	\$3,123,250	\$4,374,546	\$1,251,296
Purchase Power Biomass													
		Sep-21			Oct-21			Nov-21			Dec-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Total Purchase Power Biomass \$	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Purchase Power Hydro													
		Sep-21			Oct-21			Nov-21			Dec-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
MHEB	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$7,998,126	\$7,764,400	(\$233,726)	\$8,231,030	\$8,086,136	(\$144,894)	\$7,998,126	\$7,885,286	(\$112,840)	\$8,327,320	\$8,151,866	(\$175,454)
	Total Purchase Power Hydro \$	\$7,998,126	\$7,764,400	(\$233,726)	\$8,231,030	\$8,086,136	(\$144,894)	\$7,998,126	\$7,885,286	(\$112,840)	\$8,327,320	\$8,151,866	(\$175,454)
Purchase Power Gas													
		Sep-21			Oct-21			Nov-21			Dec-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Total Purchase Power Gas \$	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Purchase Power Wind													
		Sep-21			Oct-21			Nov-21			Dec-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Oliver 1	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$357,516	\$319,975	(\$37,541)	\$395,065	\$415,836	\$20,771	\$399,027	\$357,465	(\$41,562)	\$367,269	\$312,044	(\$55,225)
Oliver 2	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$557,505	\$554,728	(\$2,777)	\$657,339	\$700,105	\$42,765	\$625,871	\$638,159	\$12,288	\$631,989	\$586,320	(\$45,670)
Wing River	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$20,233	\$0	(\$20,233)	\$22,934	\$0	(\$22,934)	\$23,605	\$0	(\$23,605)	\$21,956	\$0	(\$21,956)
Nobles	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$1,711,372	\$1,452,540	(\$258,832)	\$1,949,833	\$1,900,940	(\$48,893)	\$1,959,310	\$2,059,072	\$99,762	\$1,902,380	\$1,964,531	\$62,151
	Total Purchase Power Wind \$	\$2,646,626	\$2,327,244	(\$319,383)	\$3,025,171	\$3,016,880	(\$8,291)	\$3,007,814	\$3,054,696	\$46,883	\$2,923,594	\$2,862,894	(\$60,700)
Purchase Power Diesel													
		Sep-21			Oct-21			Nov-21			Dec-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Total Purchase Power Diesel \$	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Purchase Power Solar													
		Sep-21			Oct-21			Nov-21			Dec-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Solar Subscription Cancellations	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$432	\$432	\$0	\$345	\$345	\$0	\$0	\$0	\$0	\$0	\$0
	Total Purchase Power Solar \$	\$0	\$432	\$432	\$0	\$345	\$345	\$0	\$0	\$0	\$0	\$0	\$0
Purchase Power Unknown													
		Sep-21			Oct-21			Nov-21			Dec-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Market Purchase	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$3,469,399	\$13,492,199	\$10,022,801	\$2,417,131	\$10,562,226	\$8,145,094	\$2,126,066	\$7,239,435	\$5,113,369	\$3,344,215	\$9,338,340	\$5,994,125
MacQuarie Energy	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$100,800	\$100,800	\$0	\$765,000	\$765,000	\$0	\$720,000	\$720,000	\$0	\$705,000	\$705,000
Minnkota Power	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$544,800	\$544,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Minnkota Power- Station Service	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$30,000	\$37,196	\$7,196	\$30,000	\$47,720	\$17,720	\$30,000	\$60,133	\$30,133	\$30,000	\$90,878	\$60,878
Purchase to Serve Non Retail FAC Customer	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$1,338,128	\$0	(\$1,338,128)	\$1,043,167	\$0	(\$1,043,167)	\$1,349,872	\$0	(\$1,349,872)	\$1,417,114	\$0	(\$1,417,114)
IMO (Ontario Market Operator)	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AEP Energy Partners	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$0	\$0	\$0	\$754,800	\$754,800	\$0	\$710,400	\$710,400	\$0	\$695,600	\$695,600
Shell Energy North America	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$1,232,400	\$1,232,400	\$0	\$1,655,400	\$1,655,400	\$0	\$1,602,000	\$1,602,000	\$0	\$49,500	\$49,500
NextEra Energy	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$1,219,485	\$1,219,485	\$0	\$7,271,205	\$7,271,205	\$0	\$7,013,925	\$7,013,925	\$0	\$3,867,505	\$3,867,505
The Energy Authority	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$52,800	\$52,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Purchases	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$60,770	\$60,770	\$0	\$124,491	\$124,491	\$0	\$81,979	\$81,979	\$0	\$235,835	\$235,835
	Total Purchase Power Unknown \$	\$4,837,527	\$16,740,450	\$11,902,923	\$3,490,298	\$21,180,842	\$17,690,544	\$3,505,938	\$17,427,872	\$13,921,934	\$4,791,329	\$14,982,658	\$10,191,329
Total Company Purchase Power													
		Sep-21			Oct-21			Nov-21			Dec-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
		\$18,517,829	\$29,564,669	\$11,046,840	\$17,896,250	\$35,191,058	\$17,294,808	\$17,169,428	\$30,668,162	\$13,498,734	\$19,165,493	\$30,371,965	\$11,206,471

	YTD 2021			Jan-21			Feb-21			Mar-21			Apr-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Inter-System Sales- Customer Sales															
	Trade Secret Data Begins														
Incremental Production Service (IPS) and Replacement Firm Power Service (RFPs) MWh Average Cost															
Total Cost	\$764,641	\$3,719,413	\$2,954,772	\$65,818	\$211,035	\$145,217	\$117,990	\$368,305	\$250,315	\$65,510	\$216,330	\$150,820	\$53,856	\$341,415	\$287,559
Economy and Non Firm Energy															
	Trade Secret Data Begins														
Total Cost	\$17,985,566	\$30,548,125	\$12,562,559	\$1,525,645	\$1,659,248	\$133,603	\$1,558,922	\$1,745,588	\$186,666	\$1,408,143	\$1,921,242	\$513,100	\$1,441,593	\$1,727,945	\$286,352
Excessive Energy															
	Trade Secret Data Begins														
Total Cost	\$0	\$3,432,059	\$3,432,059	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Incremental and Price Recall															
	Trade Secret Data Begins														
Total Cost	\$0	\$506,404	\$506,404	\$0	\$0	\$0	\$0	\$348,048	\$348,048	\$0	\$0	\$0	\$0	\$0	\$0
Total Inter-System Sales- Customer (MWhs)	764,396	1,067,722	303,326	64,603	78,519	13,916	67,574	75,411	7,837	60,129	88,066	27,937	60,864	81,443	20,579
Total Inter-System Sales- Customer (Dollars)	\$18,750,207	\$38,206,001	\$19,455,794	\$1,591,463	\$1,870,283	\$278,820	\$1,676,912	\$2,461,942	\$785,029	\$1,473,653	\$2,137,573	\$663,920	\$1,495,450	\$2,069,360	\$573,911
	MWhs	% Difference	40%												
	\$	% Difference	104%												
Inter-System Sales- Market Sales															
	Trade Secret Data Begins														
MaQuarie Energy MWh Average Cost															
Total Cost	\$4,694,257	\$4,276,660	(\$417,597)	\$365,811	\$307,329	(\$58,483)	\$365,115	\$306,846	(\$58,270)	\$422,769	\$355,458	(\$67,312)	\$396,838	\$343,767	(\$53,071)
Oconto MWh Average Cost															
Total Cost	\$2,594,855	\$2,615,447	\$20,892	\$270,375	\$227,362	(\$43,013)	\$233,091	\$219,443	(\$13,648)	\$223,288	\$190,109	(\$33,179)	\$182,002	\$161,459	(\$20,543)
AEP Energy MWh Average Cost															
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NextEra Energy															
	Trade Secret Data Begins														
Total Cost	\$4,694,257	\$14,624,884	\$9,930,627	\$365,811	\$307,329	(\$58,482)	\$365,115	\$306,846	(\$58,270)	\$422,769	\$355,458	(\$67,311)	\$396,838	\$343,768	(\$53,070)
Asset Based Sales (Non MISO)															
	Trade Secret Data Begins														
Total Cost	\$0	\$1,003,125	\$1,003,125	\$0	\$22,316	\$22,316	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$148	\$148
Minnkota Power Liquidation															
	Trade Secret Data Begins														
Total Cost	\$21,278,963	\$18,833,084	(\$2,445,879)	\$1,842,796	\$1,618,458	(\$224,338)	\$1,656,798	\$1,495,803	(\$160,995)	\$1,605,618	\$1,159,763	(\$445,855)	\$1,810,747	\$1,829,930	\$19,183
Shell Energy MWh Average Cost															
Total Cost	\$4,694,257	\$6,586,411	\$1,892,154	\$365,811	\$307,379	(\$58,432)	\$365,115	\$306,873	(\$58,242)	\$422,769	\$355,459	(\$67,311)	\$396,838	\$344,963	(\$51,875)
Liquidated Sales															
	Trade Secret Data Begins														
Total Cost	\$0	\$2,713,722	\$2,713,722	\$0	\$96,975	\$96,975	\$0	(\$1,281,917)	(\$1,281,917)	\$0	(\$347,599)	(\$347,599)	\$0	(\$1,436,058)	(\$1,436,058)
MISO Market Sales															
	Trade Secret Data Begins														
Total Cost	\$13,107,741	\$29,781,641	\$16,673,901	\$1,613,044	\$1,145,142	(\$467,903)	\$741,449	\$2,820,116	\$2,078,667	\$1,111,749	\$1,512,167	\$400,418	\$540,714	\$1,396,572	\$855,858
Green Pricing Program															
	Trade Secret Data Begins														
Total Cost	\$0	\$79,375	\$79,375	\$0	\$2,540	\$2,540	\$0	\$2,540	\$2,540	\$0	\$2,540	\$2,540	\$0	\$2,540	\$2,540
Total Inter-System Sales- Market (MWhs)	2,236,937	3,412,055	1,175,118	214,846	208,128	(6,717)	164,120	197,694	33,574	185,561	205,442	19,881	166,798	176,584	9,786
Total Inter-System Sales- Market (Dollars)	\$51,064,029	\$80,514,350	\$29,450,321	\$4,823,649	\$4,034,828	(\$788,821)	\$3,726,683	\$4,176,549	\$449,866	\$4,208,964	\$3,583,355	(\$625,609)	\$3,723,977	\$2,987,087	(\$736,890)
	MWhs	% Difference	53%												
	\$	% Difference	58%												
Inter-System Sales- Station Service															
	Trade Secret Data Begins														
Oliver County 1 MWh Average Cost															
Total Cost	\$6,233	\$9,146	\$2,913	\$519	\$1,040	\$521	\$519	\$2,811	\$2,292	\$519	\$398	(\$122)	\$519	\$182	(\$338)
Oliver County 2 MWh Average Cost															
Total Cost	\$9,875	\$8,063	(\$1,813)	\$823	\$1,065	\$242	\$823	\$1,986	\$1,163	\$823	\$429	(\$394)	\$823	\$467	(\$356)
WPPI Energy MWh Average Cost															
Total Cost	\$187,922	\$200,234	\$12,312	\$3,024	\$13,573	\$10,548	\$3,024	\$5,762	\$2,737	\$3,024	\$0	(\$3,024)	\$75,110	\$16,835	(\$58,275)
Wing River MWh Average Cost															
Total Cost	\$0	\$83	\$83	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Inter-System Sales- Station Service (MWhs)	7,885	6,126	(1,759)	149	725	575	149	321	171	149	48	(101)	3,046	784	(2,262)
Total Inter-System Sales- Station Service (Dollars)	\$204,031	\$217,526	\$13,495	\$4,367	\$15,678	\$11,312	\$4,367	\$10,560	\$6,193	\$4,367	\$827	(\$3,540)	\$76,453	\$17,484	(\$58,969)
	MWhs	% Difference	-22%												
	\$	% Difference	7%												
Inter-System Sales- MISO Costs															
	Trade Secret Data Begins														
MISO Recovered thru Customer Sales Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MISO Recovered thru Market Sales Total Cost	\$2,731,637	\$8,513,787	\$5,782,150	\$243,316	\$232,978	(\$10,338)	\$106,081	\$107,533	\$1,452	\$211,615	\$275,244	\$63,629	\$140,176	\$556,437	\$416,261
Total Inter-System Sales- MISO Costs (Dollars)	\$2,731,637	\$8,513,787	\$5,782,150	\$243,316	\$232,978	(\$10,338)	\$106,081	\$107,533	\$1,452	\$211,615	\$275,244	\$63,629	\$140,176	\$556,437	\$416,261
	\$	% Difference	212%												
Inter-System Sales-Sales due to Retail and Resale Loss of Load															
	Trade Secret Data Begins														
Sales due to Retail and Resale Loss of Load MWh Average Cost															
Total Cost	\$42,773,649	\$22,656,667	(\$20,116,982)	\$3,492,489	\$1,827,669	(\$1,664,820)	\$3,275,911	\$1,810,286	(\$1,465,625)	\$3,557,755	\$1,552,122	(\$2,005,633)	\$3,635,220	\$1,610,988	(\$2,024,232)
MISO Recovered thru Sales due to Retail and Resale Loss of Load Total Cost	\$4,084,427	\$4,406,794	\$322,366	\$297,435	\$237,192	(\$60,243)	\$175,760	\$84,679	(\$91,082)	\$302,137	\$232,722	(\$69,415)	\$294,880	\$589,193	\$294,313
Liquidation for Sales due to Retail and Resale Loss of Load Total Cost	\$0	\$1,004,489	\$1,004,489	\$0	\$12,776	\$12,776	\$0	\$91,795	\$91,795	\$0	\$26,599	\$26,599	\$0	\$115,402	\$115,402
Total Inter-System Sales- Sales due to Retail and Resale Loss of Load (MWhs)															
Total Inter-System Sales- Sales due to Retail and Resale Loss of Load (Dollars)	\$46,858,076	\$28,067,950	(\$18,790,127)	\$3,789,924	\$2,077,637	(\$1,712,287)	\$3,451,671	\$1,986,760	(\$1,464,911)	\$3,859,893	\$1,811,444	(\$2,048,448)	\$3,930,100	\$2,315,584	(\$1,614,516)
	MWhs	% Difference	-53%												
	\$	% Difference	-40%												
Inter-System Sales- Asset Based Margins															
	Trade Secret Data Begins														
Asset Based Margins Total Cost	\$8,227,802	\$5,260,590	(\$2,967,212)	\$1,140,822	\$747,774	(\$393,049)	\$897,131	\$568,853	(\$328,278)	\$837,974	\$576,255	(\$261,719)	\$582,901	\$155,081	(\$427,820)
Total Inter-System Sales- MISO Costs (Dollars)	\$8,227,802	\$5,260,590	(\$2,967,212)	\$1,140,822	\$747,774	(\$393,049)	\$897,131	\$568,853	(\$328,278)	\$837,974	\$576,255	(\$261,719)	\$582,901	\$155,081	(\$427,820)
		% Difference	-36%												
Total Company Inter System Sales															
	Trade Secret Data Begins														
Total Company Inter System Sales MWhs	4,869,313	5,355,063	485,749	436,582	367,724	(68,858)	373,636	340,626	(33,010)	403,567	367,957	(35,611)	384,068	330,091	(53,978)
Total Company Inter System Sales Dollars	\$127,835,782	\$160,780,204	\$32,944,422	\$11,593,540	\$8,979,177	(\$2,614,363)	\$9,862,846	\$9,312,197	(\$550,650)	\$10,596,465	\$8,384,697	(\$2,211,768)	\$9,949,056	\$8,101,034	(\$1,848,022)
	MWhs	% Difference	10%												
	\$	% Difference	26%												

1/ For Inter System Sales- Customer Sales- MISO Costs are Included in the Total Cost

Inter-System Sales- Customer Sales													
	MWh Average Cost	May-21			Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Incremental Production Service (IPS) and Replacement Firm Power Service (RFPs)													
Total Cost		\$45,323	\$280,322	\$234,999	\$52,883	\$267,744	\$214,861	\$45,795	\$137,734	\$91,938	\$42,683	\$262,882	\$220,199
Economy and Non Firm Energy													
Total Cost		\$1,548,435	\$1,649,830	\$101,395	\$1,462,504	\$2,428,480	\$965,977	\$1,558,131	\$2,781,358	\$1,223,227	\$1,603,070	\$3,030,892	\$1,427,823
Excessive Energy													
Total Cost		\$0	\$0	\$0	\$0	\$5	\$5	\$0	\$3,432,054	\$3,432,054	\$0	\$0	\$0
Incremental and Price Recall													
Total Cost		\$0	\$0	\$0	\$0	\$51,330	\$51,330	\$0	\$10,305	\$10,305	\$0	\$7,915	\$7,915
Total Inter-System Sales- Customer (MWhs)		66,140	74,866	8,726	62,349	85,424	23,075	64,738	163,059	98,321	67,275	83,640	16,365
Total Inter-System Sales- Customer (Dollars) 1/		\$1,593,759	\$1,930,152	\$336,394	\$1,515,387	\$2,747,560	\$1,232,173	\$1,603,926	\$6,361,451	\$4,757,525	\$1,645,753	\$3,301,690	\$1,655,937
Inter-System Sales- Market Sales													
	MWh Average Cost	May-21			Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
MaQuarie Energy													
Total Cost		\$365,726	\$321,504	(\$44,223)	\$408,054	\$351,516	(\$56,539)	\$382,922	\$332,772	(\$50,150)	\$402,454	\$350,425	(\$52,029)
Oconto													
Total Cost		\$175,625	\$170,606	(\$5,019)	\$192,338	\$216,228	\$23,890	\$229,153	\$227,425	(\$1,728)	\$218,174	\$241,021	\$22,847
AEP Energy													
Total Cost		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NextEra Energy													
Total Cost		\$365,726	\$318,029	(\$47,698)	\$408,054	\$351,516	(\$56,539)	\$382,922	\$1,952,516	\$1,569,594	\$402,454	\$1,915,735	\$1,513,281
Asset Based Sales (Non MISO)													
Total Cost		\$0	\$122	\$122	\$0	\$6,977	\$6,977	\$0	\$42,034	\$42,034	\$0	\$238,351	\$238,351
Minnkota Power Liquidation													
Total Cost		\$1,658,217	\$1,428,884	(\$229,333)	\$1,948,867	\$1,415,875	(\$532,992)	\$1,900,187	\$1,643,735	(\$256,452)	\$1,635,242	\$1,339,462	(\$295,780)
Shell Energy													
Total Cost		\$365,726	\$321,548	(\$44,179)	\$408,054	\$351,516	(\$56,538)	\$382,922	\$665,544	\$282,622	\$402,454	\$700,849	\$298,395
Liquidated Sales													
Total Cost		\$0	(\$781,849)	(\$781,849)	\$0	(\$250,599)	(\$250,599)	\$0	\$651,244	\$651,244	\$0	\$1,022,997	\$1,022,997
MISO Market Sales													
Total Cost		\$1,163,905	\$1,541,144	\$377,238	\$1,472,733	\$2,045,960	\$573,227	\$1,504,167	\$1,591,741	\$87,574	\$712,099	\$2,270,790	\$1,558,691
Green Pricing Program													
Total Cost		\$0	\$2,540	\$2,540	\$0	\$9,525	\$9,525	\$0	\$9,525	\$9,525	\$0	\$9,525	\$9,525
Total Inter-System Sales- Market (MWhs)		182,851	183,371	520	206,425	210,382	3,957	207,088	341,352	134,264	165,131	358,087	192,956
Total Inter-System Sales- Market (Dollars)		\$4,094,927	\$3,322,526	(\$772,400)	\$4,838,101	\$4,498,513	(\$339,587)	\$4,782,274	\$7,116,536	\$2,334,262	\$3,772,878	\$8,089,155	\$4,316,277
Inter-System Sales- Station Service													
	MWh Average Cost	May-21			Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Oliver County 1													
Total Cost		\$519	\$253	(\$267)	\$519	\$871	\$352	\$519	\$297	(\$223)	\$519	\$786	\$266
Oliver County 2													
Total Cost		\$823	\$211	(\$612)	\$823	\$376	(\$447)	\$823	\$132	(\$691)	\$823	\$716	(\$107)
WPPI Energy													
Total Cost		\$70,139	\$14,656	(\$55,482)	\$3,024	\$63,726	\$60,701	\$3,024	\$8,066	\$5,041	\$3,024	\$0	(\$3,024)
Wing River													
Total Cost		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$83	\$83
Total Inter-System Sales- Station Service (MWhs)		2,846	607	(2,239)	149	1,644	1,495	149	249	100	149	40	(109)
Total Inter-System Sales- Station Service (Dollars)		\$71,481	\$15,120	(\$56,361)	\$4,367	\$64,973	\$60,606	\$4,367	\$8,495	\$4,128	\$4,367	\$1,585	(\$2,782)
Inter-System Sales- MISO Costs													
	MWh Average Cost	May-21			Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
MISO Recovered thru Customer Sales		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MISO Recovered thru Market Sales		\$158,186	\$158,450	\$264	\$278,548	\$511,666	\$233,118	\$420,245	\$393,887	(\$26,357)	\$197,320	\$933,484	\$736,164
Total Inter-System Sales- MISO Costs (Dollars)		\$158,186	\$158,450	\$264	\$278,548	\$511,666	\$233,118	\$420,245	\$393,887	(\$26,357)	\$197,320	\$933,484	\$736,164
Inter-System Sales-Sales due to Retail and Resale Loss of Load													
	MWh Average Cost	May-21			Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Sales due to Retail and Resale Loss of Load													
Total Cost		\$3,650,155	\$1,708,097	(\$1,942,059)	\$3,526,394	\$2,223,903	(\$1,302,491)	\$3,721,862	\$2,007,222	(\$1,714,639)	\$3,614,173	\$1,769,925	(\$1,844,248)
MISO Recovered thru Sales due to Retail and Resale Loss of Load		\$269,946	\$191,623	(\$78,322)	\$355,177	\$570,402	\$215,225	\$565,034	\$179,506	(\$385,528)	\$340,992	\$316,907	(\$24,084)
Liquidation for Sales due to Retail and Resale Loss of Load		\$0	\$63,639	\$63,639	\$0	\$116,953	\$116,953	\$0	\$124,375	\$124,375	\$0	\$94,527	\$94,527
Total Inter-System Sales- Sales due to Retail and Resale Loss of Load (MWhs)													
Total Inter-System Sales- Sales due to Retail and Resale Loss of Load (Dollars)		\$3,920,101	\$1,963,359	(\$1,956,742)	\$3,881,571	\$2,911,258	(\$970,313)	\$4,286,895	\$2,311,103	(\$1,975,793)	\$3,955,165	\$2,181,360	(\$1,773,806)
Inter-System Sales- Asset Based Margins													
	MWh Average Cost	May-21			Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Asset Based Margins		\$341,042	\$668,139	\$327,097	\$358,500	\$636,179	\$277,678	\$655,448	\$1,177,843	\$522,395	\$861,728	\$491,387	(\$370,342)
Total Inter-System Sales- MISO Costs (Dollars)		\$341,042	\$668,139	\$327,097	\$358,500	\$636,179	\$277,678	\$655,448	\$1,177,843	\$522,395	\$861,728	\$491,387	(\$370,342)
Total Company Inter System Sales													
	MWh Average Cost	May-21			Jun-21			Jul-21			Aug-21		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Total Company Inter System Sales MWhs		410,310	332,501	(\$77,809)	422,283	373,050	(\$49,233)	430,447	580,452	150,005	391,027	510,214	119,187
Total Company Inter System Sales Dollars		\$10,179,496	\$8,057,747	(\$2,121,749)	\$10,876,474	\$11,370,149	\$493,675	\$11,753,155	\$17,369,315	\$5,616,159	\$10,437,211	\$14,998,659	\$4,561,449

1/ For Inter System Sales- Customer Sales- MISO Costs are included in the Total Cost

Inter-System Sales- Customer Sales	Sep-21			Oct-21			Nov-21			Dec-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Incremental Production Service (IPS) and Replacement Firm Power Service (RFPs) MWh Average Cost												
Total Cost	\$58,122	\$377,796	\$319,674	\$56,746	\$492,471	\$435,726	\$69,465	\$473,200	\$403,735	\$90,449	\$290,177	\$199,728
Economy and Non Firm Energy MWh Average Cost												
Total Cost	\$1,545,343	\$3,524,716	\$1,979,373	\$1,219,242	\$3,776,637	\$2,557,395	\$1,531,300	\$3,269,494	\$1,738,194	\$1,583,238	\$3,032,693	\$1,449,454
Excessive Energy MWh Average Cost												
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Incremental and Price Recall MWh Average Cost												
Total Cost	\$0	\$4,707	\$4,707	\$0	\$53,682	\$53,682	\$0	\$17,552	\$17,552	\$0	\$12,865	\$12,865
Total Inter-System Sales- Customer (MWhs)	64,719	87,458	22,739	51,614	89,747	38,133	65,861	82,232	16,371	68,530	77,857	9,327
Total Inter-System Sales- Customer (Dollars)	\$1,603,465	\$3,907,219	\$2,303,754	\$1,275,987	\$4,322,790	\$3,046,803	\$1,600,765	\$3,760,246	\$2,159,480	\$1,673,687	\$3,335,735	\$1,662,048
1/												
Inter-System Sales- Market Sales	Sep-21			Oct-21			Nov-21			Dec-21		
MaQuarie Energy MWh Average Cost												
Total Cost	\$393,940	\$387,926	(\$6,014)	\$387,309	\$419,805	\$32,496	\$384,705	\$378,780	(\$5,925)	\$418,613	\$420,535	\$1,922
Oconto MWh Average Cost												
Total Cost	\$188,062	\$200,505	\$12,443	\$194,336	\$229,658	\$35,322	\$224,393	\$244,462	\$20,069	\$263,716	\$287,168	\$23,452
AEP Energy MWh Average Cost												
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NextEra Energy MWh Average Cost												
Total Cost	\$393,940	\$2,097,475	\$1,703,535	\$387,309	\$2,392,553	\$2,005,244	\$384,705	\$2,128,796	\$1,744,091	\$418,613	\$2,154,865	\$1,736,252
Asset Based Sales (Non MISO) MWh Average Cost												
Total Cost	\$0	\$205,349	\$205,349	\$0	\$47,655	\$47,655	\$0	\$181,911	\$181,911	\$0	\$258,263	\$258,263
Minnkota Power Liquidation MWh Average Cost												
Total Cost	\$1,864,891	\$1,531,202	(\$333,689)	\$1,929,668	\$1,629,117	(\$300,551)	\$1,587,668	\$1,289,185	(\$298,484)	\$1,838,263	\$2,451,671	\$613,408
Shell Energy MWh Average Cost												
Total Cost	\$393,940	\$786,601	\$392,661	\$387,309	\$846,701	\$459,392	\$384,705	\$757,560	\$372,855	\$418,613	\$841,420	\$422,807
Liquidated Sales MWh Average Cost												
Total Cost	\$0	\$1,236,249	\$1,236,249	\$0	\$1,374,819	\$1,374,819	\$0	\$1,559,561	\$1,559,561	\$0	\$869,899	\$869,899
MISO Market Sales MWh Average Cost												
Total Cost	\$290,022	\$2,171,743	\$1,881,721	\$1,437,831	\$4,494,184	\$3,056,354	\$1,296,203	\$5,227,767	\$3,931,563	\$1,223,824	\$3,564,316	\$2,340,492
Green Pricing Program MWh Average Cost												
Total Cost	\$0	\$9,525	\$9,525	\$0	\$9,525	\$9,525	\$0	\$9,525	\$9,525	\$0	\$9,525	\$9,525
Total Inter-System Sales- Market (MWhs)	151,854	337,292	185,438	204,147	397,840	193,693	185,412	389,115	203,703	202,704	406,768	204,064
Total Inter-System Sales- Market (Dollars)	\$3,524,794	\$8,626,575	\$5,101,781	\$4,723,761	\$11,444,018	\$6,720,256	\$4,262,379	\$11,777,545	\$7,515,166	\$4,581,642	\$10,857,662	\$6,276,020
Inter-System Sales- Station Service	Sep-21			Oct-21			Nov-21			Dec-21		
Oliver County 1 MWh Average Cost												
Total Cost	\$519	\$305	(\$215)	\$519	\$572	\$53	\$519	\$754	\$234	\$519	\$878	\$358
Oliver County 2 MWh Average Cost												
Total Cost	\$823	\$250	(\$573)	\$823	\$575	(\$248)	\$823	\$849	\$26	\$823	\$1,006	\$183
WPPI Energy MWh Average Cost												
Total Cost	\$3,024	\$17,648	\$14,623	\$15,453	\$31,410	\$15,957	\$3,024	\$19,935	\$16,911	\$3,024	\$8,624	\$5,600
Wing River MWh Average Cost												
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Inter-System Sales- Station Service (MWhs)	149	419	270	649	587	(62)	149	405	256	149	295	146
Total Inter-System Sales- Station Service (Dollars)	\$4,367	\$18,203	\$13,836	\$16,795	\$32,557	\$15,761	\$4,367	\$21,538	\$17,171	\$4,367	\$10,508	\$6,141
Inter-System Sales- MISO Costs	Sep-21			Oct-21			Nov-21			Dec-21		
MISO Recovered thru Customer Sales Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MISO Recovered thru Market Sales Total Cost	\$200,587	\$902,939	\$702,352	\$329,947	\$1,213,519	\$883,571	\$244,814	\$2,371,808	\$2,126,994	\$200,802	\$855,842	\$655,040
Total Inter-System Sales- MISO Costs (Dollars)	\$200,587	\$902,939	\$702,352	\$329,947	\$1,213,519	\$883,571	\$244,814	\$2,371,808	\$2,126,994	\$200,802	\$855,842	\$655,040
Inter-System Sales-Sales due to Retail and Resale Loss of Load	Sep-21			Oct-21			Nov-21			Dec-21		
Sales due to Retail and Resale Loss of Load MWh Average Cost												
Total Cost	\$3,526,970	\$2,102,047	(\$1,424,923)	\$3,692,058	\$2,045,400	(\$1,646,658)	\$3,505,890	\$1,998,547	(\$1,507,343)	\$3,574,771	\$2,000,460	(\$1,574,311)
MISO Recovered thru Sales due to Retail and Resale Loss of Load Total Cost	\$442,622	\$381,156	(\$61,466)	\$437,198	\$472,831	\$35,633	\$328,285	\$856,374	\$528,089	\$274,962	\$294,208	\$19,246
Liquidation for Sales due to Retail and Resale Loss of Load Total Cost	\$0	\$75,129	\$75,129	\$0	\$120,649	\$120,649	\$0	\$53,890	\$53,890	\$0	\$108,755	\$108,755
Total Inter-System Sales- Sales due to Retail and Resale Loss of Load (MWhs)												
Total Inter-System Sales- Sales due to Retail and Resale Loss of Load (Dollars)	\$3,969,592	\$2,558,332	(\$1,411,260)	\$4,129,256	\$2,638,879	(\$1,490,377)	\$3,834,175	\$2,908,811	(\$925,364)	\$3,849,733	\$2,403,423	(\$1,446,309)
Inter-System Sales- Asset Based Margins	Sep-21			Oct-21			Nov-21			Dec-21		
Asset Based Margins Total Cost	\$525,250	\$225,879	(\$299,371)	\$287,332	\$229,013	(\$516,345)	\$724,523	\$517,242	(\$241,765)	\$1,015,150	\$759,456	(\$255,694)
Total Inter-System Sales- MISO Costs (Dollars)	\$525,250	\$225,879	(\$299,371)	\$287,332	\$229,013	(\$516,345)	\$724,523	\$517,242	(\$241,765)	\$1,015,150	\$759,456	(\$255,694)
Total Company Inter System Sales MWhs	370,082	496,450	126,368	414,882	555,877	140,995	404,062	543,033	138,970	428,367	557,088	128,721
Total Company Inter System Sales Dollars	\$9,828,054	\$16,239,146	\$6,411,092	\$10,763,080	\$19,422,750	\$8,659,670	\$10,671,023	\$20,322,706	\$9,651,683	\$11,325,381	\$18,222,626	\$6,897,246

1/ For Inter System Sales- Customer Sales- MISO Costs are included in the Total Cost

SOLAR ENERGY ADJUSTMENT

Docket No. E015/M-15-773

	YTD 2021			January 2021			February 2021		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
FUEL COST									
Total Monthly Fuel Cost	215,949,266	317,620,666	101,671,400	20,084,643	22,630,361	2,545,718	17,994,659	23,531,347	5,536,688
Less: Costs related to Solar	0	1,366	1,366	0	589	589	0	(0)	(0)
Total Non-Solar FAC Costs	215,949,266	317,619,299	101,670,033	20,084,643	22,629,772	2,545,129	17,994,659	23,531,347	5,536,688
Current 2-Month Total Fuel Cost	436,298,149	624,032,902	187,734,753	43,873,163	41,195,654	(2,677,509)	38,079,301	46,161,119	8,081,818
KWH SALES									
Total Monthly KWH Sales	8,204,321,000	9,211,854,545	1,007,533,545	750,533,000	824,594,131	74,061,131	681,697,000	786,150,176	104,453,176
Less: Solar Generation and Purchases	16,356,983	17,214,796	857,813	862,075	709,610	(152,465)	1,109,549	1,356,744	247,195
Total Non-Solar FAC KWH Sales	8,187,964,017	9,194,639,749	1,006,675,732	749,670,925	823,884,521	74,213,596	680,587,451	784,793,432	104,205,981
Current 2-Month Total KWH Sales	16,516,099,476	18,334,769,615	1,818,670,139	1,634,100,348	1,581,652,850	(52,447,498)	1,430,258,375	1,608,677,953	178,419,578
Fuel Cost - cents/kWh	2.642	3.404	0.762	2.685	2.605	(0.080)	2.662	2.870	0.208
TOGA Percentage	114.01%	100.20%	-13.81%	123.99%	96.49%	-27.50%	104.04%	103.91%	-0.13%
Fuel Cost Credit to the SEA - cents/kWh	3.012	3.411	0.399	3.329	2.514	(0.816)	2.770	2.982	0.213
BILLING MONTH:	YTD 2021			March 2021			April 2021		
TIME OF GENERATION ADJUSTMENT (TOGA)									
TOGA Percentage	114.01%	100.20%	-13.81%	123.99%	96.49%	-27.50%	104.04%	103.91%	-0.13%
Less: 100 Percent	100.00%	100.00%	0.00%	100.00%	100.00%		100.00%	100.00%	
Total TOGA Percentage to the FAC	14.01%	0.20%	-13.81%	23.99%	-3.51%	-27.50%	4.04%	3.91%	-0.13%
TOGA to the FAC (Dollars)	(\$678.95)	(\$188,508.78)	(\$187,829.82)	\$5,551.90	(\$649.28)	(\$6,201.18)	\$1,193.42	\$1,522.73	\$329.31
SOLAR COSTS									
Costs Related to Solar	\$0.00	\$1,366.38	\$1,366.38	\$0.00	\$588.99	\$588.99	\$0.00	(\$0.01)	(\$0.01)
Less: Credit from FAC / TOGA	\$432,654.05	\$386,357.86	(\$46,296.19)	\$28,698.62	\$17,836.06	(\$10,862.56)	\$30,729.62	\$40,461.28	\$9,731.66
Net Costs Related to Solar	(\$432,654.05)	(\$384,991.48)	\$47,662.57	(\$28,698.62)	(\$17,247.07)	\$11,451.55	(\$30,729.62)	(\$40,461.29)	(\$9,731.67)
Current 2-Month Net Costs Related to Solar	(\$852,734.31)	(\$777,579.44)	\$75,154.86	(\$34,150.17)	(\$33,148.63)	\$1,001.54	(\$59,428.24)	(\$57,708.36)	\$1,719.88
KWH SALES									
Total Monthly kWh Sales	8,204,321,000	9,211,854,545	1,007,533,545	750,533,000	824,594,131	74,061,131	681,697,000	786,150,176	104,453,176
Less: Retail SES Exempt	3,906,131,144	4,870,651,265	964,520,121	333,950,929	423,631,157	89,680,228	307,092,929	387,031,056	79,938,127
Less: Municipal SES Exempt	1,398,623,000	1,393,314,516	(5,308,484)	136,092,000	127,827,858	(8,264,142)	121,626,000	120,502,672	(1,123,328)
Total Non-Exempt kWh Sales	2,899,566,856	2,947,888,764	48,321,908	280,490,071	273,135,116	(7,354,955)	252,978,071	278,616,448	25,638,377
Current 2-Month Total Non-Exempt kWh Sales	5,820,950,122	5,894,892,497	73,942,375	582,453,553	521,567,205	(60,886,348)	533,468,143	551,751,564	18,283,421
SEA ADJUSTMENT									
SEA Adjustment - Dollars per KWH	(\$0.00015)	(\$0.00013)	\$0.00001	(\$0.00006)	(\$0.00006)	(\$0.00000)	(\$0.00011)	(\$0.00010)	\$0.00001
SEA Adjustment - cents per KWH	(\$0.01465)	(\$0.01319)	\$0.00146	(\$0.00586)	(\$0.00636)	(\$0.00049)	(\$0.01114)	(\$0.01046)	\$0.00068
BILLING MONTH:	YTD 2021			March 2021			April 2021		

	March 2021			April 2021			May 2021		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
FUEL COST									
Total Monthly Fuel Cost	18,489,487	19,728,219	1,238,732	16,040,259	25,312,241	9,271,982	16,357,645	20,282,526	3,924,881
Less: Costs related to Solar	0	0	0	0	0	0	0	(0)	(0)
Total Non-Solar FAC Costs	18,489,487	19,728,219	1,238,732	16,040,259	25,312,241	9,271,982	16,357,645	20,282,526	3,924,881
Current 2-Month Total Fuel Cost	36,484,146	43,259,566	6,775,420	34,529,746	45,040,460	10,510,714	32,397,904	45,594,767	13,196,864
KWH SALES									
Total Monthly KWH Sales	713,952,000	803,923,542	89,971,542	639,580,000	746,913,128	107,333,128	655,817,000	759,542,119	103,725,119
Less: Solar Generation and Purchases	1,265,322	1,799,149	533,827	1,572,108	1,457,488	(114,620)	1,774,485	1,908,325	133,840
Total Non-Solar FAC KWH Sales	712,686,678	802,124,393	89,437,715	638,007,892	745,455,640	107,447,748	654,042,515	757,633,794	103,591,279
Current 2-Month Total KWH Sales	1,393,274,129	1,586,917,825	193,643,696	1,350,694,570	1,547,580,033	196,885,463	1,292,050,407	1,503,089,434	211,039,027
Fuel Cost - cents/kWh	2.619	2.726	0.107	2.556	2.910	0.354	2.507	3.033	0.526
TOGA Percentage	106.17%	81.17%	-25.00%	111.38%	82.36%	-29.02%	106.81%	66.49%	-40.32%
Fuel Cost Credit to the SEA - cents/kWh	2.781	2.213	(0.568)	2.847	2.397	(0.450)	2.678	2.017	(0.661)
BILLING MONTH:	May 2021			June 2021			July 2021		
TIME OF GENERATION ADJUSTMENT (TOGA)									
TOGA Percentage	106.17%	81.17%	-25.00%	111.38%	82.36%	-29.02%	106.81%	66.49%	-40.32%
Less: 100 Percent	100.00%	100.00%		100.00%	100.00%		100.00%	100.00%	
Total TOGA Percentage to the FAC	6.17%	-18.83%	-25.00%	11.38%	-17.64%	-29.02%	6.81%	-33.51%	-40.32%
TOGA to the FAC (Dollars)	\$2,045.02	(\$9,235.45)	(\$11,280.47)	\$4,573.97	(\$7,482.45)	(\$12,056.42)	\$3,031.71	(\$19,394.37)	(\$22,426.08)
SOLAR COSTS									
Costs Related to Solar	\$0.00	\$0.02	\$0.02	\$0.00	\$0.02	\$0.02	\$0.00	(\$0.05)	(\$0.05)
Less: Credit from FAC / TOGA	\$35,183.80	\$39,809.36	\$4,625.56	\$44,757.05	\$34,930.45	(\$9,826.60)	\$47,518.05	\$38,485.12	(\$9,032.93)
Net Costs Related to Solar	(\$35,183.80)	(\$39,809.34)	(\$4,625.54)	(\$44,757.05)	(\$34,930.43)	\$9,826.62	(\$47,518.05)	(\$38,485.17)	\$9,032.88
Current 2-Month Net Costs Related to Solar	(\$65,913.42)	(\$80,270.63)	(\$14,357.20)	(\$79,940.85)	(\$74,739.76)	\$5,201.08	(\$92,275.10)	(\$73,415.60)	\$18,859.50
KWH SALES									
Total Monthly kWh Sales	713,952,000	803,923,542	89,971,542	639,580,000	746,913,128	107,333,128	655,817,000	759,542,119	103,725,119
Less: Retail SES Exempt	327,150,929	422,539,196	95,388,267	308,594,929	407,490,488	98,895,559	332,450,929	433,708,024	101,257,095
Less: Municipal SES Exempt	125,534,000	115,361,599	(10,172,401)	104,949,000	102,701,952	(2,247,048)	104,293,000	103,988,239	(304,761)
Total Non-Exempt kWh Sales	261,267,071	266,022,747	4,755,676	226,036,071	236,720,688	10,684,617	219,073,071	221,845,856	2,772,785
Current 2-Month Total Non-Exempt kWh Sales	514,245,143	544,639,195	30,394,052	487,303,143	502,743,435	15,440,292	445,109,143	458,566,544	13,457,401
SEA ADJUSTMENT									
SEA Adjustment - Dollars per KWH	(\$0.00013)	(\$0.00015)	(\$0.00002)	(\$0.00016)	(\$0.00015)	\$0.00002	(\$0.00021)	(\$0.00016)	\$0.00005
SEA Adjustment - cents per KWH	(\$0.01282)	(\$0.01474)	(\$0.00192)	(\$0.01640)	(\$0.01487)	\$0.00154	(\$0.02073)	(\$0.01601)	\$0.00472
BILLING MONTH:	May 2021			June 2021			July 2021		

	June 2021			July 2021			August 2021		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
FUEL COST									
Total Monthly Fuel Cost	16,817,598	30,384,532	13,566,934	20,482,976	23,596,841	3,113,865	18,616,765	26,252,921	7,636,156
Less: Costs related to Solar	0	(0)	(0)	0	(0)	(0)	0	(0)	(0)
Total Non-Solar FAC Costs	16,817,598	30,384,532	13,566,934	20,482,976	23,596,841	3,113,865	18,616,765	26,252,921	7,636,156
Current 2-Month Total Fuel Cost	33,175,243	50,667,058	17,491,815	37,300,574	53,981,373	16,680,799	39,099,741	49,849,762	10,750,020
KWH SALES									
Total Monthly KWH Sales	646,113,000	731,586,221	85,473,221	691,616,000	713,230,225	21,614,225	686,677,000	771,765,014	85,088,014
Less: Solar Generation and Purchases	1,790,205	2,018,299	228,094	1,939,938	1,846,169	(93,769)	1,784,427	1,934,615	150,188
Total Non-Solar FAC KWH Sales	644,322,795	729,567,922	85,245,127	689,676,062	711,384,056	21,707,994	684,892,573	769,830,399	84,937,826
Current 2-Month Total KWH Sales	1,298,365,310	1,487,201,716	188,836,406	1,333,998,857	1,440,951,978	106,953,121	1,374,568,635	1,481,214,455	106,645,820
Fuel Cost - cents/kWh	2.555	3.407	0.852	2.796	3.746	0.950	2.845	3.365	0.520
TOGA Percentage	87.36%	66.58%	-20.78%	104.04%	61.91%	-42.13%	94.33%	71.54%	-22.79%
Fuel Cost Credit to the SEA - cents/kWh	2.232	2.268	0.036	2.909	2.319	(0.590)	2.684	2.407	(0.276)
BILLING MONTH:	August 2021			September 2021			October 2021		
TIME OF GENERATION ADJUSTMENT (TOGA)									
TOGA Percentage	87.36%	66.58%	-20.78%	104.04%	61.91%	-42.13%	94.33%	71.54%	-22.79%
Less: 100 Percent	100.00%	100.00%		100.00%	100.00%		100.00%	100.00%	
Total TOGA Percentage to the FAC	-12.64%	-33.42%	-20.78%	4.04%	-38.09%	-42.13%	-5.67%	-28.46%	-22.79%
TOGA to the FAC (Dollars)	(\$5,783.59)	(\$22,983.16)	(\$17,199.57)	\$2,190.46	(\$26,341.22)	(\$28,531.67)	(\$2,876.31)	(\$18,527.58)	(\$15,651.27)
SOLAR COSTS									
Costs Related to Solar	\$0.00	(\$0.04)	(\$0.04)	\$0.00	(\$0.03)	(\$0.03)	\$0.00	(\$0.02)	(\$0.02)
Less: Credit from FAC / TOGA	\$39,956.15	\$45,780.29	\$5,824.14	\$56,431.11	\$42,816.27	(\$13,614.84)	\$47,890.64	\$46,572.22	(\$1,318.42)
Net Costs Related to Solar	(\$39,956.15)	(\$45,780.33)	(\$5,824.18)	(\$56,431.11)	(\$42,816.30)	\$13,614.81	(\$47,890.64)	(\$46,572.24)	\$1,318.40
Current 2-Month Net Costs Related to Solar	(\$87,474.20)	(\$84,265.50)	\$3,208.70	(\$96,387.26)	(\$88,596.63)	\$7,790.63	(\$104,321.75)	(\$89,388.54)	\$14,933.21
KWH SALES									
Total Monthly kWh Sales	646,113,000	731,586,221	85,473,221	691,616,000	713,230,225	21,614,225	686,677,000	771,765,014	85,088,014
Less: Retail SES Exempt	324,894,929	391,480,210	66,585,281	333,750,929	346,591,327	12,840,398	332,450,929	395,286,426	62,835,497
Less: Municipal SES Exempt	105,411,000	111,726,809	6,315,809	120,321,000	118,620,922	(1,700,078)	113,924,000	116,172,955	2,248,955
Total Non-Exempt kWh Sales	215,807,071	228,379,202	12,572,131	237,544,071	248,017,976	10,473,905	240,302,071	260,305,633	20,003,562
Current 2-Month Total Non-Exempt kWh Sales	434,880,143	450,225,058	15,344,915	453,351,143	476,397,178	23,046,035	477,846,143	508,323,609	30,477,466
SEA ADJUSTMENT									
SEA Adjustment - Dollars per KWH	(\$0.00020)	(\$0.00019)	\$0.00001	(\$0.00021)	(\$0.00019)	\$0.00003	(\$0.00022)	(\$0.00018)	\$0.00004
SEA Adjustment - cents per KWH	(\$0.02011)	(\$0.01872)	\$0.00140	(\$0.02126)	(\$0.01860)	\$0.00266	(\$0.02183)	(\$0.01758)	\$0.00425
BILLING MONTH:	August 2021			September 2021			October 2021		

	September 2021			October 2021			November 2021		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
FUEL COST									
Total Monthly Fuel Cost	16,936,136	28,093,274	11,157,138	17,407,265	32,697,185	15,289,920	17,332,930	35,339,640	18,006,710
Less: Costs related to Solar	0	432	432	0	345	345	0	(0)	(0)
Total Non-Solar FAC Costs	16,936,136	28,092,842	11,156,705	17,407,265	32,696,840	15,289,575	17,332,930	35,339,640	18,006,710
Current 2-Month Total Fuel Cost	35,552,902	54,345,763	18,792,861	34,343,402	60,789,681	26,446,280	34,740,195	68,036,480	33,296,284
KWH SALES									
Total Monthly KWH Sales	645,034,000	749,554,599	104,520,599	667,974,000	741,303,891	73,329,891	680,382,000	770,602,144	90,220,144
Less: Solar Generation and Purchases	1,418,510	1,810,396	391,886	1,394,634	1,216,759	(177,875)	757,711	746,099	(11,612)
Total Non-Solar FAC KWH Sales	643,615,490	747,744,203	104,128,713	666,579,366	740,087,132	73,507,766	679,624,289	769,856,045	90,231,756
Current 2-Month Total KWH Sales	1,328,508,063	1,517,574,602	189,066,539	1,310,194,857	1,487,831,335	177,636,478	1,346,203,655	1,509,943,177	163,739,522
Fuel Cost - cents/kWh	2.676	3.581	0.905	2.621	4.086	1.465	2.581	4.506	1.925
TOGA Percentage	90.91%	52.82%	-38.10%	86.87%	46.21%	-40.66%	87.95%	42.07%	-45.88%
Fuel Cost Credit to the SEA - cents/kWh	2.433	1.891	(0.541)	2.277	1.888	(0.389)	2.270	1.896	(0.374)
BILLING MONTH:	November 2021			December 2021			January 2022		
TIME OF GENERATION ADJUSTMENT (TOGA)									
TOGA Percentage	90.91%	52.82%	-38.10%	86.87%	46.21%	-40.66%	87.95%	42.07%	-45.88%
Less: 100 Percent	100.00%	100.00%		100.00%	100.00%		100.00%	100.00%	
Total TOGA Percentage to the FAC	-9.09%	-47.18%	-38.10%	-13.13%	-53.79%	-40.66%	-12.05%	-57.93%	-45.88%
TOGA to the FAC (Dollars)	(\$3,448.88)	(\$30,588.38)	(\$27,139.50)	(\$4,800.04)	(\$26,741.12)	(\$21,941.08)	(\$2,356.61)	(\$19,475.02)	(\$17,118.42)
SOLAR COSTS									
Costs Related to Solar	\$0.00	\$432.22	\$432.22	\$0.00	\$345.32	\$345.32	\$0.00	(\$0.03)	(\$0.03)
Less: Credit from FAC / TOGA	\$34,510.45	\$34,241.90	(\$268.55)	\$31,753.30	\$22,975.65	(\$8,777.65)	\$17,199.92	\$14,144.20	(\$3,055.72)
Net Costs Related to Solar	(\$34,510.45)	(\$33,809.68)	\$700.77	(\$31,753.30)	(\$22,630.33)	\$9,122.97	(\$17,199.92)	(\$14,144.23)	\$3,055.69
Current 2-Month Net Costs Related to Solar	(\$82,401.09)	(\$80,381.92)	\$2,019.17	(\$66,263.75)	(\$56,440.01)	\$9,823.74	(\$48,953.22)	(\$36,774.56)	\$12,178.66
KWH SALES									
Total Monthly kWh Sales	645,034,000	749,554,599	104,520,599	667,974,000	741,303,891	73,329,891	680,382,000	770,602,144	90,220,144
Less: Retail SES Exempt	313,294,929	402,985,960	89,691,031	333,750,929	416,539,346	82,788,417	324,494,929	417,388,505	92,893,576
Less: Municipal SES Exempt	104,812,000	101,172,572	(3,639,428)	113,294,000	111,651,401	(1,642,599)	117,821,000	126,194,872	8,373,872
Total Non-Exempt kWh Sales	226,927,071	245,396,067	18,468,996	220,929,071	213,113,144	(7,815,927)	238,066,071	227,018,767	(11,047,304)
Current 2-Month Total Non-Exempt kWh Sales	467,229,143	505,701,700	38,472,557	447,856,143	458,509,211	10,653,068	458,995,143	440,131,911	(18,863,232)
SEA ADJUSTMENT									
SEA Adjustment - Dollars per KWH	(\$0.00018)	(\$0.00016)	\$0.00002	(\$0.00015)	(\$0.00012)	\$0.00002	(\$0.00011)	(\$0.00008)	\$0.00002
SEA Adjustment - cents per KWH	(\$0.01764)	(\$0.01590)	\$0.00174	(\$0.01480)	(\$0.01231)	\$0.00249	(\$0.01067)	(\$0.00836)	\$0.00231
BILLING MONTH:	November 2021			December 2021			January 2022		

December 2021			
	Forecast	Actual	Difference: Over/(Under)
FUEL COST			
Total Monthly Fuel Cost	19,388,903	29,771,579	10,382,676
Less: Costs related to Solar	0	(0)	(0)
Total Non-Solar FAC Costs	19,388,903	29,771,579	10,382,676
Current 2-Month Total Fuel Cost	36,721,834	65,111,219	28,389,385
KWH SALES			
Total Monthly KWH Sales	744,946,000	812,689,355	67,743,355
Less: Solar Generation and Purchases	688,020	411,143	(276,877)
Total Non-Solar FAC KWH Sales	744,257,980	812,278,212	68,020,232
Current 2-Month Total KWH Sales	1,423,882,269	1,582,134,257	158,251,988
Fuel Cost - cents/kWh	2.579	4.115	1.536
TOGA Percentage	101.59%	49.09%	-52.50%
Fuel Cost Credit to the SEA - cents/kWh	2.620	2.020	(0.600)
BILLING MONTH:	February 2022		
December 2021			
TIME OF GENERATION ADJUSTMENT (TOGA)	Forecast	Actual	Difference: Over/(Under)
TOGA Percentage	101.59%	49.09%	-52.50%
Less: 100 Percent	100.00%	100.00%	
Total TOGA Percentage to the FAC	1.59%	-50.91%	-52.50%
TOGA to the FAC (Dollars)	\$281.31	(\$8,613.47)	(\$8,894.79)
December 2021			
SOLAR COSTS	Forecast	Actual	Difference: Over/(Under)
Costs Related to Solar	\$0.00	(\$0.01)	(\$0.01)
Less: Credit from FAC / TOGA	\$18,025.34	\$8,305.06	(\$9,720.28)
Net Costs Related to Solar	(\$18,025.34)	(\$8,305.07)	\$9,720.27
Current 2-Month Net Costs Related to Solar	(\$35,225.26)	(\$22,449.30)	\$12,775.96
December 2021			
KWH SALES	Forecast	Actual	Difference: Over/(Under)
Total Monthly kWh Sales	744,946,000	812,689,355	67,743,355
Less: Retail SES Exempt	334,252,929	425,979,570	91,726,641
Less: Municipal SES Exempt	130,546,000	137,392,665	6,846,665
Total Non-Exempt kWh Sales	280,147,071	249,317,120	(30,829,951)
Current 2-Month Total Non-Exempt kWh Sales	518,213,143	476,335,887	(41,877,256)
SEA ADJUSTMENT			
SEA Adjustment - Dollars per KWH	(\$0.00007)	(\$0.00005)	\$0.00002
SEA Adjustment - cents per KWH	(\$0.00680)	(\$0.00471)	\$0.00208
BILLING MONTH:	February 2022		

2021 FAC Forecast vs. Actuals - Customer Sales

Residential:

- Residential came in within 0.85 percent of the 2021 forecast.

Commercial:

- Commercial came in roughly 4.8 percent more than forecast. Minnesota Power forecasted that the lower sales seen in 2020 would continue into 2021 due to the COVID-19 pandemic but Minnesota Power saw sales rebound in 2021.

Industrial:

- Industrial Taconites came in roughly 20.7 percent more than forecast. Minnesota Power forecasted that Taconite customers would operate at lower production levels in 2021 but these customers operated at close to full production.

Lighting:

- Lighting came in roughly 13.7 percent less than forecast.

Municipal Pumping:

- Municipal Pumping came in roughly 4.1 percent more than forecast.

Municipals:

- Municipals came in within 0.4 percent less of the 2021 forecast.

Intersystem Sales:

- Please see Attachment 2.3 for the Inter System Sales Breakdown
- Overall, Intersystem Sales came in about 486,000 million MWhs above forecast. Intersystem sales are removed from the Total Sales of Electricity as they are Non FAC MWh's. Removing more Intersystem Sales decreases the Total Monthly MWh Sales for the calculation of the 1 Month Average Cost of Fuel Rate.

2021 FAC Forecast vs. Actual- Generation Costs

Boswell:

- Boswell total costs came in roughly 6 percent above forecast. As stated in the Attachment 2 customer sales explanation, sales were up in 2021 compared to the forecast which had lower sales in 2021 due to the COVID-19 pandemic. Minnesota Power saw sales close to full production in 2021 which was unexpected and raised

the output of Boswell 3 and 4 to cover the increased sales. Also, Minnesota Power saw market prices rise throughout 2021 which increased the output of Boswell 3 and 4 as they were ran higher by MISO. With Boswell 3 being economic and the market prices high in 2021, Boswell 3 was cleared by MISO more often than expected in 2021

Hibbard:

- With the higher market prices seen in 2021 and lower than expected cost for biomass fuel, Hibbard was called on and ran more than forecasted. Minnesota Power forecasted Hibbard to only run in July and August 2021 which is normal and when Minnesota Power sees higher prices due to higher temps. In reality, Hibbard ran all 12 months of the year which increased the generation and costs.

Laskin:

- Like Hibbard, the higher market prices seen in 2021 contributed to the increased generation at Laskin compared to forecast. Laskin was also dispatched by MISO to maintain reliability within the local area, which also lead to increased generation. Minnesota Power forecasted Laskin to run 5 months out of the year but in reality, Laskin ran 11 months of the year. Also, Natural Gas prices were up in 2021 which increased the \$/MWh of Laskin throughout the year.

Wind:

- Wind generation came in 3 percent below forecast with Bison coming in about 3.5 percent below forecast but Tac Ridge coming in 14.8 percent above forecast. In 2022 there was a material increase in economic curtailment at the Bison wind turbines that rolled off PTCs in 2022. Wind generation owned by Minnesota Power has a \$0 Fuel Cost so this overall decrease in wind generation increased the FAC Costs.

Hydro:

- Minnesota Power saw lower hydro generation in 2021 by about 43 percent compared to forecast due to a very dry year resulting in drought conditions on the system. With low snowfall totals in the winter of 2020/2021, there was never really a spring 2021 runoff and that dry spell continued into the summer months where

little rain was seen in the area. Hydro generation owned by Minnesota Power has a \$0 Fuel Cost. The decrease in hydro generation increased the FAC Costs.

2021 Forecast vs. Actual- Purchase Costs

Manitoba Hydro:

- The MHEB 133 MW contract has a variable energy piece based on the energy market (133 Purchase Power Agreement) and throughout 2021, Minnesota Power procured more energy from Manitoba Hydro than was forecasted.
- The MHEB 250 MW contract price came in slightly lower than forecast due to a credit for energy storage provision that was not known at the time the forecast was filed which explains the lower average cost.

Market Purchase:

- Customer load was up in 2021 which means there were more market purchases to serve load.
- Market purchase price per MWh came in 82 percent above forecast due to higher than forecasted MISO Market prices in 2021.

Minnkota Power Station Service:

- Costs came in slightly higher than forecasted. The forecast is based on prior year monthly average.

Purchase to serve Non-Firm Retail Customer

- When forecast was prepared, there was no purchase made so this section was a placeholder. The purchases to cover this Non-Firm Retail Customer were contracted with different counter parties and are included in the purchase by counterparty.

Counter Party Purchases:

- IMO/Minnkota Power/MacQuarie/AEP/Shell/NextEra/The Energy Authority
- Purchases that were not known or under contract at the time of the forecast filing but were procured during times when Minnesota Power was short and needed to purchase energy to cover load. This can happen when generation is lower than

expected (i.e. conserving coal for winter operations or lower hydro generation), load is high, or Minnesota Power has generating units off for outage.

- This section also includes the purchases that were procured to serve a Non-Firm Retail Customer.

Other Purchases:

- The other purchases section includes all customer owned generation purchases that are not forecasted.

Oliver County I:

- Oliver I costs came in 31 percent lower than forecast. This lower cost was due to less generation than forecasted at Oliver I. Also, there were credits received on the Oliver 1 invoices that were not forecasted which lowered the \$/MWh.

Oliver County II:

- Like Oliver I, Oliver II costs came in 17 percent lower than forecast. This lower cost was due to less generation than forecasted at Oliver II. Also, there were credits received on the Oliver I invoices that were not forecasted which lowered the \$/MWh.

Wing River:

- Less generation than Minnesota Power forecasted in 2021.

Nobles:

- Nobles generation came in 8 percent lower than forecasted in 2021 and the \$/MWh was slightly lower than forecasted. The lower \$/MWh was due to forecasting a [TRADE SECRET DATA BEGINS ██████████ TRADE SECRET DATA ENDS] but the actual invoice costs were TRADE SECRET DATA BEGINS ██████████ TRADE SECRET DATA ENDS]. The forecasted \$/MWh was a preliminary estimate for the Nobles 2 energy price, because final pricing was dependent on final MISO network upgrade cost. Network upgrade cost were less than expected, resulting in a lower energy prices reflected in actuals.

Solar Subscription Cancellations:

- We do not forecast as it is very small. Any customers that have a rolling balance of kWh due to solar garden generation is purchased back by Minnesota Power when they leave the program and are paid out for their unused solar generation.

Square Butte:

- Based on generation at Square Butte which was lower in 2021 compared to forecast.

2021 FAC Forecast vs. Actuals- Inter-System Sales

IPS and RFPS:

- Since loads were near full production which was not expected in 2021 due to the COVID-19 pandemic, IPS and RFPS MWhs were up. The increased \$/MWh was due to the market prices being higher in 2021 that were forecasted.

Economy and Non Firm:

- Since loads were near full production which was not expected in 2021 due to the COVID-19 pandemic, Economy and Non Firm MWhs were up. The increased \$/MWh was due to the market prices being higher in 2021 that were forecasted.

Excess Energy:

- Excess Energy is not forecasted as it is usually a small amount. With loads higher than forecasted in 2021, we saw more excess energy.

Incremental and Price Recall:

- Incremental and Price Recall are not forecasted as it is usually a small amount. With loads higher than forecasted in 2021, we saw more Incremental and Price Recall energy.

Oconto:

- Loads came in stronger than forecasted in 2021.

MacQuarie:

- MacQuarie's \$/MWh fuel cost came in lower in 2021 due to Boswell fuel being slightly lower in 2021.

Nextera Energy:

- Nextera's \$/MWh fuel cost came in lower in 2021 due to Boswell fuel being lower in 2021. Also, there were additional Nextera deals from July- December that were not known when the forecast was filed.

Shell Energy:

- Shell's \$/MWh fuel cost came in lower in 2021 due to Boswell fuel being lower in 2021. Also, there were additional Shell deals from July- December that were not known when the forecast was filed.

Asset Backed Sales (Non MISO):

- None were forecasted for 2021 but did see some Asset Backed Sales (Non MISO) when there were times that company generation was not needed to serve load.

Minnkota Power Liquidation:

- There was less generation output at Square Butte in 2021 (See Attachment 2.2- Purchases) which would decrease the amount of Minnkota Power Liquidation which is based on the output of Square Butte.

Liquidated Sales:

- Liquidated Sales are not forecasted as the model either decreases purchases or reduces generation instead of calculating liquidation.

MISO Market Sales:

- Variable- Minnesota Power uses the RTSim production cost model to determine the volume and cost for MISO market sales. When excess energy is available and it's economical, the model will sell the excess energy into the MISO market. With the increase in bilateral purchase and generation, we saw increased MISO Market sales in 2021.

Oliver County I:

- The forecast assumption used last year's average and the current year came in slightly higher.

Oliver County II:

- The forecast assumption used last year's average and the current year came in slightly lower.

WPPI Energy:

- WPPI station service is calculated when Boswell 4 is offline. The costs are based off on DA LMPs and with the market prices higher in 2021, Minnesota Power saw higher WPPI station service costs.

MISO Costs:

- See Attachment 3 for MISO Costs breakdown and assumptions.
- MISO Costs recovered thru Customer Sales is part of their fuel cost and is reflected in the average cost price in the “Inter-System Sales- Customer Sales” section.
- MISO Costs recovered thru Market Sales were more than forecasted due to increased counterparty sales in 2021 compared to forecast
- With increased energy prices there was higher than expected cost to deliver energy from the generator to MP.MP (i.e. LMP congestion and losses), with the highest cost seen at the Nobles 2 wind farm.

Sales due to Retail Loss of Load:

- Minnesota Power forecasted that customers would nominate lower in 2021 to match what was seen in 2020 due to the COVID-19 pandemic but customers nominated close to full production throughout the year. Since they nominated up, less sales were needed due to Retail Loss of Load.

Asset Based Margins:

- The Asset Based Margin Credit came in 36 percent lower than forecast. This decrease in the credit is mainly due to MISO Costs which were increased in 2021 due to higher market prices. A portion of MISO Costs are allocated to Asset Based sales on a per MWh basis and decreased the margin.

2021 FAC Forecast vs. Actuals- MISO Costs

Day Ahead/Real Time Asset, Non Asset, Excessive, and Non Excessive Energy:

- Asset Energy is reflected in MISO market purchases and sales and because of this, Minnesota Power did not include amounts on Attachment 3 of the 2021 forecast. For actuals, Minnesota Power is able break out the Asset Energy between the various charge types and are included on Attachment 3 of the 2021

True Up. This difference is roughly 65 percent of the total difference between forecast and actuals for MISO Costs.

Day Ahead/Real Time Losses and Congestion:

- DA/RT Losses and Congestion are Minnesota Power's repurchased energy costs. When the forecast is prepared, all of the repurchased energy costs are reflected in Day Ahead Loss category. Actual costs are split out between DA Losses, RT Losses, DA Congestion, and RT Congestion.

Various Financial Transmission and Auction Revenue Amounts:

- Day Ahead Financial Bilateral Transaction Congestion, Auction Revenue Rights Transaction Amount, Financial Transmission Rights Annual Transaction Amount, and Financial Transmission Rights Hourly Allocation are charges that are based on market prices. Minnesota Power saw a difference in prices between forecast and actuals which caused a difference in these various charges.

Real Time Revenue Sufficiency Guarantee Make Whole Payment Amount:

- The Real Time Revenue Sufficiency Guarantee Make Whole Payment difference is mainly due to the fact that some of Minnesota Power's generating units were called on for reliability purposes more than what was anticipated in the 2021 FAC Forecast. This resulted in more Real Time Revenue Sufficiency Guarantee Make Whole Payments to Minnesota Power.

Monthly MISO Day 2 Charges and Allocation
Docket No. E999/AA-07-1130

MINNESOTA POWER

MISO MONTHLY ALLOCATION		Account Number	January 2021	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy															
Day Ahead Asset Energy		44700-0000 or 55500-0000 or 55500-0050	6,754,370.97 (4,509,293.47)												
Day Ahead Non-Asset Energy		55500-0027													
Real Time Asset Energy		44700-0000 or 55500-0000 or 55500-0050	255,311.37												
Excessive Energy Amount		55500-0066	4,872.98												
Non-Excessive Energy Amount		55500-0069	403,216.16												
Real Time Non-Asset Energy		55500-0043	(4,773.19)												
Subtotal			2,903,704.82	17,984				36,109				11,540			
Day Ahead and Real Time Energy Loss															
Day Ahead Loss		44700-0000 or 55500-0000 or 55500-0050	1,015,714.16		22,207.71										
Day Ahead Financial Bilateral Transaction Loss		55500-0022	236,404.60		5,213.85										
Real Time Loss		44700-0000 or 55500-0000 or 55500-0050	326,354.70		7,135.46										
Real Time Distribution of Losses		55500-0041	(338,883.20)						(7,474.00)						
Real Time Financial Bilateral Transaction Loss		55500-0038	-												
Subtotal			1,239,590.26	17,984	34,557.03	17,984	(7,474.00)	36,109	-	36,109	-	11,540	-	11,540	
Virtual Energy															
Day Ahead Virtual Energy		55500-0030	-												
Real Time Virtual Energy		55500-0049	-												
Subtotal			-	17,984	-	17,984	-	36,109	-	36,109	-	11,540	-	11,540	
Schedule 16 & 17 1/															
Day Ahead Market Administration (Schedule 17)		55500-0020	147,205.14		3,246.58										
Real Time Market Administration (Schedule 17)		55500-0036	13,825.66		304.92										
Financial Transmission Rights Market Administration (Schedule 16)		55500-0031	2,788.98		244.70										
Subtotal			163,819.78	17,984	3,796.20	17,984	-	36,109	-	36,109	-	11,540	-	11,540	
Congestion, FTRs & ARRs															
Day Ahead Congestion		44700-0000 or 55500-0000 or 55500-0050	1,527,326.01		33,393.66										
Real Time Congestion		44700-0000 or 55500-0000 or 55500-0050	23,813.45		520.66										
Day Ahead Financial Bilateral Transaction Congestion		55500-0021	278,955.92		6,152.31										
Real Time Financial Bilateral Transaction Congestion		55500-0037	-		-										
Auction Revenue Rights Transaction Amount		55500-0058	(57,905.38)		-				(1,277.09)						
Financial Transmission Rights Annual Transaction Amount		55500-0059	64,837.53		1,429.98										
Auction Revenue Rights Infeasible Uplift Amount		55500-0060	2,912.71		64.24										
Auction Revenue Rights Stage 2 Distribution Amount		55500-0061	(67,699.26)		-				(1,493.09)						
Financial Transmission Rights Hourly Allocation		55500-0032	(130,846.12)		-				(2,885.78)						
Financial Transmission Rights Monthly Allocation		55500-0033	(6,571.94)		-				(144.94)						
Financial Transmission Rights Yearly Allocation		55500-0035	(32,948.99)		-				(726.68)						
Financial Transmission Rights Full Funding Guarantee Amount		55500-0054	15,384.04		339.29										
FTR Guarantee Uplift Amount		55500-0055	7,482.35		165.02										
Financial Transmission Rights Monthly Transaction Amount		55500-0056	57,735.83		1,273.35										
Financial Transmission Rights Transaction		55500-0034	-		-										
Subtotal			1,682,476.15	17,984	43,338.52	17,984	(6,527.59)	36,109	-	36,109	-	11,540	-	11,540	
RSG & Make Whole Payments															
Day Ahead Revenue Sufficiency Guarantee Distribution		55500-0028	25,642.25		565.53										
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment		55500-0029	(531.22)		-				(11.72)						
Real Time Price Volatility Make Whole Payment		55500-0057	(786.79)		-				(17.35)						
Real Time Revenue Sufficiency Guarantee First Pass Dist		55500-0046	22,691.20		500.45										
Real Time Revenue Sufficiency Guarantee Make Whole Payment		55500-0047	721.06		15.90										
Subtotal			47,736.50	17,984	1,081.89	17,984	(29.07)	36,109	-	36,109	-	11,540	-	11,540	
RNU & Misc Charges															
Real Time Miscellaneous		55500-0042	220.73		4.87										
Real Time Net Inadvertent Distribution		55500-0044	1,295.11		28.56										
Real Time Revenue Neutrality Uplift Amount		55500-0045	172,006.85		3,793.57										
Real Time Uninstructed Deviation		55500-0048	-		-										
Demand Response Allocation Uplift Amount		55500-0077	817.97		18.04										
Day Ahead Ramp Capability Amount		55500-0079	(18.57)		-				(1.86)						
Real Time Ramp Capability Amount		55500-0080	16.54		0.36										
Real Time Schedule 49 Cost Distribution Amount		55500-0081	13,575.65		299.41										
Subtotal			187,914.28	17,984	4,144.82	17,984	(1.86)	36,109	-	36,109	-	11,540	-	11,540	
Grandfathered Charge Types															
Day Ahead Congestion Rebate on Carve-Out Grandfathered		55500-0023	-		-										
Day Ahead Losses Rebate on Carve-Out Grandfathered		55500-0024	-		-										
Day Ahead Congestion Rebate on Option B Grandfathered		55500-0025	-		-										
Day Ahead Losses Rebate on Option B Grandfathered		55500-0026	-		-										
Real Time Losses Rebate on Carve-Out Grandfathered		55500-0040	-		-										
Real Time Congestion Rebate on Carve-Out Grandfathered		55500-0039	-		-										
Subtotal			-	17,984	-	17,984	-	36,109	-	36,109	-	11,540	-	11,540	
ASM Charge Types (12 Other)															
Day Ahead Regulation Amount		55500-0062	(92,312.48)		-				(2,035.93)						
Day Ahead Spinning Reserve Amount		55500-0063	(16,419.78)		-				(362.13)						
Day Ahead Supplemental Reserve Amount		55500-0064	(29.34)		-				(0.65)						
Contingency Reserve Deployment Failure Charge Amount		55500-0065	-		-										
Net Regulation Adjustment Amount		55500-0068	913.46		20.15										
Real Time Regulation Amount		55500-0070	13,569.68		299.28										
Regulation Reserve Cost Distribution Amount		55500-0071	39,341.87		867.68										
Real-Time Excessive Deficient Deployment Charge Amount		55500-0067	33,528.78		739.47										
Real Time Spinning Reserve Amount		55500-0072	3,978.02		87.73										
Spinning Reserve Cost Distribution Amount		55500-0073	18,916.34		417.20										
Real Time Supplemental Reserve Amount		55500-0074	35.24		0.78										
Supplemental Reserve Cost Distribution Amount		55500-0075	2,804.84		61.86										
Day-Ahead Short-Term Reserve Amount		55500-0082	-		-										
Real-Time Short-Term Reserve Amount		55500-0083	-		-										
Short-Term Reserve Cost Distribution Amount		55500-0084	-		-										
Short-Term Reserve Deployment Failure Charge Amount		55500-0085	-		-										
Subtotal			4,326.63	17,984	2,494.14	17,984	(2,398.71)	36,109	-	36,109	-	11,540	-	11,540	
Grand Total			6,229,568.42	17,984	89,412.58	17,984	(16,431.23)	36,109	-	36,109	-	11,540	-	11,540	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	January 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	6,754,370.97 (4,509,293.47)								
Day Ahead Non-Asset Energy	44700-0000 or 55500-0000 or 55500-0050	255,311.37								
Real Time Asset Energy	55500-0066	4,872.98								
Excessive Energy Amount	55500-0069	403,216.16								
Non-Excessive Energy Amount	55500-0043	(4,773.19)								
Real Time Non-Asset Energy										
Subtotal		2,903,704.82	161,413					141,387		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,015,714.16		199,317.78						
Day Ahead Financial Bilateral Transaction Loss	55500-0022	236,404.60		46,795.16						
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	326,354.70		64,041.93						
Real Time Distribution of Losses	55500-0041	(338,883.20)		-		(67,080.31)				
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-				
Subtotal		1,239,590.26	161,413	310,154.87	161,413	(67,080.31)		141,387	-	141,387
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	161,413	-	161,413	-		141,387	-	141,387
Schedule 16 & 17 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	147,205.14		29,138.55						
Real Time Market Administration (Schedule 17)	55500-0036	13,825.66		2,736.72						
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	2,788.98		2,196.22						
Subtotal		163,819.78	161,413	34,071.49	161,413	-		141,387	-	141,387
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	1,527,326.01		299,713.49						
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	23,813.45		4,673.01						
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	278,955.92		55,217.99						
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-						
Auction Revenue Rights Transaction Amount	55500-0058	(57,905.38)		-		(11,462.09)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	64,837.53		12,834.28						
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	2,912.71		576.56						
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(67,699.26)		-		(13,400.74)				
Financial Transmission Rights Hourly Allocation	55500-0032	(130,846.12)		-		(25,900.36)				
Financial Transmission Rights Monthly Allocation	55500-0033	(6,571.94)		-		(1,300.88)				
Financial Transmission Rights Yearly Allocation	55500-0035	(32,948.99)		-		(6,522.09)				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	15,384.04		3,045.20						
FTR Guarantee Uplift Amount	55500-0055	7,482.35		1,481.10						
Financial Transmission Rights Monthly Transaction Amount	55500-0056	57,735.83		11,428.53						
Financial Transmission Rights Transaction	55500-0034	-		-		-				
Subtotal		1,682,476.15	161,413	388,970.15	161,413	(58,586.18)		141,387	-	141,387
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	25,642.25		5,075.76						
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(531.22)		-		(105.15)				
Real Time Price Volatility Make Whole Payment	55500-0057	(786.79)		-		(155.74)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	22,691.20		4,491.61						
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	721.06		142.73						
Subtotal		47,736.50	161,413	9,710.11	161,413	(260.89)		141,387	-	141,387
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	220.73		43.69						
Real Time Net Inadvertent Distribution	55500-0044	1,295.11		256.36						
Real Time Revenue Neutrality Uplift Amount	55500-0045	172,006.85		34,047.93						
Real Time Uninstructed Deviation	55500-0048	-		-						
Demand Response Allocation Uplift Amount	55500-0077	817.97		161.91						
Day Ahead Ramp Capability Amount	55500-0079	(18.57)		-		(16.71)				
Real Time Ramp Capability Amount	55500-0080	16.54		3.27						
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,575.65		2,687.23						
Subtotal		187,914.28	161,413	37,200.41	161,413	(16.71)		141,387	-	141,387
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-						
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-						
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-						
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-						
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-						
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-						
Subtotal		-	161,413	-	161,413	-		141,387	-	141,387
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(92,312.48)		-		(18,272.81)				
Day Ahead Spinning Reserve Amount	55500-0063	(16,419.78)		-		(3,250.22)				
Day Ahead Supplemental Reserve Amount	55500-0064	(29.34)		-		(5.81)				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-				
Net Regulation Adjustment Amount	55500-0068	913.46		180.82						
Real Time Regulation Amount	55500-0070	13,569.68		2,686.05						
Regulation Reserve Cost Distribution Amount	55500-0071	39,341.87		7,787.54						
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	33,528.78		6,636.86						
Real Time Spinning Reserve Amount	55500-0072	3,978.02		787.43						
Spinning Reserve Cost Distribution Amount	55500-0073	18,916.34		3,744.40						
Real Time Supplemental Reserve Amount	55500-0074	35.24		6.98						
Supplemental Reserve Cost Distribution Amount	55500-0075	2,804.84		555.20						
Day-Ahead Short-Term Reserve Amount	55500-0082	-		-						
Real-Time Short-Term Reserve Amount	55500-0083	-		-						
Short-Term Reserve Cost Distribution Amount	55500-0084	-		-						
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-						
Subtotal		4,326.63	161,413	22,385.27	161,413	(21,528.84)		141,387	-	141,387
Grand Total		6,229,568.42	161,413	802,492.30	161,413	(147,472.93)		141,387	-	141,387

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	February 2021	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy														
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	20,893,685.79 (13,516,347.44)												
Day Ahead Non-Asset Energy	55500-0027													
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	1,076,193.97												
Excessive Energy Amount	55500-0066	1,173.25												
Non-Excessive Energy Amount	55500-0069	220,483.11												
Real Time Non-Asset Energy	55500-0043	(1,249,928.41)												
Subtotal		7,425,260.28	25,963					38,565						
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,836,545.25 (385,011.45)		95,263.88										
Day Ahead Financial Bilateral Transaction Loss	55500-0022													
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	35,076.19		1,178.02										
Real Time Distribution of Losses	55500-0041	(1,016,888.50)												
Real Time Financial Bilateral Transaction Loss	55500-0038													
Subtotal		1,469,721.49	25,963	96,441.89	25,963	(47,033.37)		38,565		38,565				
Virtual Energy														
Day Ahead Virtual Energy	55500-0030	-												
Real Time Virtual Energy	55500-0049	-												
Subtotal		-	25,963	-	25,963	-		38,565		38,565				
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020	159,948.51		5,366.23										
Real Time Market Administration (Schedule 17)	55500-0036	12,913.48		433.24										
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,163.18		425.94										
Subtotal		176,025.17	25,963	6,225.42	25,963	-		38,565		38,565				
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	1,240,917.58		41,675.56										
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(1,037,593.00)												
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	(962,637.15)												
Real Time Financial Bilateral Transaction Congestion	55500-0037													
Auction Revenue Rights Transaction Amount	55500-0058	(57,905.38)												
Financial Transmission Rights Annual Transaction Amount	55500-0059	64,837.53		2,175.28										
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	2,912.77		97.72										
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(67,699.33)												
Financial Transmission Rights Hourly Allocation	55500-0032	413,066.15		13,858.26										
Financial Transmission Rights Monthly Allocation	55500-0033	(4,840.84)												
Financial Transmission Rights Yearly Allocation	55500-0035													
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(3,974.78)												
FTR Guarantee Uplift Amount	55500-0055	2,931.15		98.34										
Financial Transmission Rights Monthly Transaction Amount	55500-0056	111,713.42		3,747.96										
Financial Transmission Rights Transaction	55500-0034													
Subtotal		(298,271.88)	25,963	61,653.12	25,963	(71,653.00)		38,565		38,565				
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	90,232.70		3,027.28										
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(7,172.98)												
Real Time Price Volatility Make Whole Payment	55500-0057	(124,354.12)												
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	320,481.60		10,752.07										
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(29,358.28)												
Subtotal		249,828.92	25,963	13,779.35	25,963	(5,397.66)		38,565		38,565				
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042	1,275.65		42.80										
Real Time Net Inadvertent Distribution	55500-0044	12,134.69		407.12										
Real Time Revenue Neutrality Uplift Amount	55500-0045	(400,298.30)												
Real Time Uninstructed Deviation	55500-0048													
Demand Response Allocation Uplift Amount	55500-0077	2,536.49		85.10										
Day Ahead Ramp Capability Amount	55500-0079													
Real Time Ramp Capability Amount	55500-0080	(56.60)												
Real Time Schedule 49 Cost Distribution Amount	55500-0081	7,660.00		256.99										
Subtotal		(376,748.07)	25,963	792.00	25,963	(13,431.80)		38,565		38,565				
Grandfathered Charge Types														
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023													
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024													
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025													
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026													
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040													
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039													
Subtotal		-	25,963	-	25,963	-		38,565		38,565				
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062	(83,666.29)												
Day Ahead Spinning Reserve Amount	55500-0063	(48,774.69)												
Day Ahead Supplemental Reserve Amount	55500-0064	(9,675.95)												
Contingency Reserve Deployment Failure Charge Amount	55500-0065													
Net Regulation Adjustment Amount	55500-0068	(3,014.21)												
Real Time Regulation Amount	55500-0070	(22,861.63)												
Regulation Reserve Cost Distribution Amount	55500-0071	63,696.27		2,136.99										
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	46,419.09		1,557.35										
Real Time Spinning Reserve Amount	55500-0072	22,673.58		760.69										
Spinning Reserve Cost Distribution Amount	55500-0073	55,793.08		1,871.84										
Real Time Supplemental Reserve Amount	55500-0074	2,530.04		84.88										
Supplemental Reserve Cost Distribution Amount	55500-0075	69,895.65		2,344.98										
Day-Ahead Short-Term Reserve Amount	55500-0082													
Real-Time Short-Term Reserve Amount	55500-0083													
Short-Term Reserve Cost Distribution Amount	55500-0084													
Short-Term Reserve Deployment Failure Charge Amount	55500-0085													
Subtotal		93,014.94	25,963	8,756.74	25,963	(5,636.11)		38,565		38,565				
Grand Total		8,738,830.85	25,963	187,648.53	25,963	(143,151.94)		38,565		38,565				

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	February 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	20,893,685.79 (13,516,347.44)								
Day Ahead Non-Asset Energy	55500-0027									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	1,076,193.97								
Excessive Energy Amount	55500-0066	1,173.25								
Non-Excessive Energy Amount	55500-0069	220,483.11								
Real Time Non-Asset Energy	55500-0043	(1,249,928.41)								
Subtotal		7,425,260.28	144,288					133,166		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,836,545.25 (385,011.45)		529,422.28		(71,785.49)				
Day Ahead Financial Bilateral Transaction Loss	55500-0022									
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	35,076.19		6,546.74						
Real Time Distribution of Losses	55500-0041	(1,016,888.50)				(189,599.13)				
Real Time Financial Bilateral Transaction Loss	55500-0038									
Subtotal		1,469,721.49	144,288	535,969.02	144,288	(261,384.62)		133,166	133,166	
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	144,288	-	144,288	-		133,166	133,166	-
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	159,948.51		29,822.44		-				
Real Time Market Administration (Schedule 17)	55500-0036	12,913.48		2,407.72		-				
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,163.18		2,367.15		-				
Subtotal		176,025.17	144,288	34,597.31	144,288	-		133,166	133,166	-
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	1,240,917.58		231,609.00		-				
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(1,037,593.00)				(193,659.82)				
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	(962,637.15)				(179,483.95)				
Real Time Financial Bilateral Transaction Congestion	55500-0037	-				-				
Auction Revenue Rights Transaction Amount	55500-0058	(57,905.38)				(10,796.47)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	64,837.53		12,088.97		-				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	2,912.77		543.09		-				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(67,699.33)				(12,622.56)				
Financial Transmission Rights Hourly Allocation	55500-0032	413,066.15		77,016.29		-				
Financial Transmission Rights Monthly Allocation	55500-0033	(4,840.84)				(902.58)				
Financial Transmission Rights Yearly Allocation	55500-0035	-				-				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(3,974.78)				(741.10)				
FTR Guarantee Uplift Amount	55500-0055	2,931.15		546.51		-				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	111,713.42		20,829.00		-				
Financial Transmission Rights Transaction	55500-0034	-				-				
Subtotal		(298,271.88)	144,288	342,632.87	144,288	(398,206.48)		133,166	133,166	-
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	90,232.70		16,823.91		-				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(7,172.98)				(1,337.40)				
Real Time Price Volatility Make Whole Payment	55500-0057	(124,354.12)				(23,185.86)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	320,481.60		59,753.88		-				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(29,358.28)				(5,473.86)				
Subtotal		249,828.92	144,288	76,577.79	144,288	(29,997.12)		133,166	133,166	-
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	1,275.65		237.85		-				
Real Time Net Inadvertent Distribution	55500-0044	12,134.69		2,262.52		-				
Real Time Revenue Neutrality Uplift Amount	55500-0045	(400,298.30)				(74,635.73)				
Real Time Uninstructed Deviation	55500-0048	-				-				
Demand Response Allocation Uplift Amount	55500-0077	2,536.49		472.93		-				
Day Ahead Ramp Capability Amount	55500-0079	-				-				
Real Time Ramp Capability Amount	55500-0080	(56.60)				(10.55)				
Real Time Schedule 49 Cost Distribution Amount	55500-0081	7,660.00		1,428.21		-				
Subtotal		(376,748.07)	144,288	4,401.50	144,288	(74,646.28)		133,166	133,166	-
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-				-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-				-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-				-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-				-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-				-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-				-				
Subtotal		-	144,288	-	144,288	-		133,166	133,166	-
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(83,666.29)				(15,599.60)				
Day Ahead Spinning Reserve Amount	55500-0063	(48,774.69)				(9,094.05)				
Day Ahead Supplemental Reserve Amount	55500-0064	(9,675.95)				(1,804.08)				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-				-				
Net Regulation Adjustment Amount	55500-0068	(3,014.21)				(562.00)				
Real Time Regulation Amount	55500-0070	(22,861.63)				(4,262.56)				
Regulation Reserve Cost Distribution Amount	55500-0071	63,696.27		11,876.19		-				
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	46,419.09		8,654.85		-				
Real Time Spinning Reserve Amount	55500-0072	22,673.58		4,227.50		-				
Spinning Reserve Cost Distribution Amount	55500-0073	55,793.08		10,402.63		-				
Real Time Supplemental Reserve Amount	55500-0074	2,530.04		471.73		-				
Supplemental Reserve Cost Distribution Amount	55500-0075	69,895.65		13,032.06		-				
Day-Ahead Short-Term Reserve Amount	55500-0082	-				-				
Real-Time Short-Term Reserve Amount	55500-0083	-				-				
Short-Term Reserve Cost Distribution Amount	55500-0084	-				-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-				-				
Subtotal		93,014.94	144,288	48,664.96	144,288	(31,322.30)		133,166	133,166	-
Grand Total		8,738,830.85	144,288	1,042,843.44	144,288	(795,556.80)		133,166	133,166	-

MINNESOTA POWER											
MISO MONTHLY ALLOCATION											
	Account Number	March 2021	FPE Retail				FAC Resale				Subtotal FPE and FAC Cost/(Revenue)
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	
Day Ahead and Real Time Energy											
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	6,371,185.25								-
5	Day Ahead Non-Asset Energy	55500-0027	(5,006,383.74)								-
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	229,871.99								-
	Excessive Energy Amount	55500-0066	(116.59)								-
	Non-Excessive Energy Amount	55500-0069	(27,305.33)								-
22	Real Time Non-Asset Energy	55500-0043	7,710.17								-
	Subtotal		1,574,961.75	686,763	1,367,320.14	686,763	115,362	222,587.00	115,362	1,589,907.14	
Day Ahead and Real Time Energy Loss											
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,022,046.80								780,772.08
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	238,394.39		671,463.99			109,308.09			181,179.74
	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	14,017.92		9,209.49			1,499.22			10,708.71
14	Real Time Distribution of Losses	55500-0041	(251,049.55)			(164,085.99)			(26,711.67)		(190,797.66)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-								-
	Subtotal		1,023,409.56	686,763	836,488.05	686,763	115,362	136,172.47	115,362	(26,711.67)	781,862.86
Virtual Energy											
12	Day Ahead Virtual Energy	55500-0030	-								-
27	Real Time Virtual Energy	55500-0049	-								-
	Subtotal		-	686,763	-	686,763	115,362	-	115,362	-	-
Schedule 16 & 17 1/											
4	Day Ahead Market Administration (Schedule 17)	55500-0020	110,317.22		72,103.33			11,737.75			83,841.09
19	Real Time Market Administration (Schedule 17)	55500-0036	11,122.36		7,269.57			1,183.42			8,452.99
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	2,887.16		-			307.19			307.19
	Subtotal		124,326.74	686,763	79,372.91	686,763	115,362	13,228.37	115,362	-	92,601.27
Congestion, FTRs & ARRs											
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	1,306,712.67		858,483.68			139,753.16			998,236.83
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	165,734.73		108,884.35			17,725.36			126,609.71
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	339,518.78		221,909.47			36,124.80			258,034.27
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-			-			-
	Auction Revenue Rights Transaction Amount	55500-0058	(103,415.41)			(67,592.31)			(11,003.40)		(78,595.71)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	205,009.39		133,994.14			21,813.00			155,807.14
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	913.41		597.00			97.19			694.19
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(54,501.41)		-	(35,622.12)		-	(5,798.95)		(41,421.07)
28	Financial Transmission Rights Hourly Allocation	55500-0032	(312,368.27)		-	(204,163.90)		-	(33,235.98)		(237,399.89)
30	Financial Transmission Rights Monthly Allocation	55500-0033	(24,873.43)		-	(16,257.27)		-	(2,646.53)		(18,903.81)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-	-		-	-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(2,872.51)		-	(1,877.47)		-	(305.64)		(2,183.11)
	FTR Guarantee Uplift Amount	55500-0055	2,872.51		1,877.47			305.64			2,183.11
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	77,013.52		50,336.04			8,194.24			58,530.28
31	Financial Transmission Rights Transaction	55500-0034	-		-			-			-
	Subtotal		1,599,743.97	686,763	1,376,082.15	686,763	115,362	224,013.37	115,362	(52,990.50)	1,221,591.94
RSG & Make Whole Payments											
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	18,572.29		12,138.85			1,976.09			14,114.94
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(18.60)		-	(12.16)		-	(1.98)		(14.14)
	Real Time Price Volatility Make Whole Payment	55500-0057	(140.14)		-	(91.60)		-	(14.91)		(106.51)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	113,764.67		74,356.59			12,104.56			86,461.15
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-			-			-
	Subtotal		132,178.22	686,763	86,495.44	686,763	115,362	14,080.65	115,362	(16.89)	100,455.45
RNU & Misc Charges											
20	Real Time Miscellaneous	55500-0042	87.41		57.13			9.30			66.43
21	Real Time Net Inadvertent Distribution	55500-0044	(2,220.89)		-	(1,451.57)		-	(236.30)		(1,687.88)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	404,341.54		264,277.63			43,021.94			307,299.57
26	Real Time Uninstructed Deviation	55500-0048	-		-			-			-
27	Demand Response Allocation Uplift Amount	55500-0077	4,321.42		2,824.48			459.80			3,284.28
33	Day Ahead Ramp Capability Amount	55500-0079	(2.69)		-			-			-
34	Real Time Ramp Capability Amount	55500-0080	(10.30)		-	(6.73)		-	(1.10)		(7.83)
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	8,499.22		5,555.09			904.32			6,459.41
	Subtotal		415,015.71	686,763	272,714.33	686,763	115,362	44,395.36	115,362	(237.40)	315,413.98
Grandfathered Charge Types											
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-			-			-
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-			-			-
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-			-			-
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-			-			-
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-			-			-
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-			-			-
	Subtotal		-	686,763	-	686,763	115,362	-	115,362	-	-
ASM Charge Types (12 Other)											
	Day Ahead Regulation Amount	55500-0062	(94,675.61)		-	(61,879.98)		-	(10,073.48)		(71,953.46)
	Day Ahead Spinning Reserve Amount	55500-0063	(48,783.12)		-	(31,884.65)		-	(5,190.52)		(37,075.17)
	Day Ahead Supplemental Reserve Amount	55500-0064	(15.50)		-	(10.13)		-	(1.65)		(11.78)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-			-			-
	Net Regulation Adjustment Amount	55500-0068	(66.55)		-	(43.50)		-	(7.08)		(50.58)
	Real Time Regulation Amount	55500-0070	13,487.28		8,815.29			1,435.05			10,250.33
	Regulation Reserve Cost Distribution Amount	55500-0071	41,404.89		27,062.24			4,405.48			31,467.72
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	51,248.92		33,496.29			5,452.89			38,949.18
	Real Time Spinning Reserve Amount	55500-0072	8,508.63		5,561.24			905.32			6,466.56
	Spinning Reserve Cost Distribution Amount	55500-0073	42,275.75		27,631.43			4,498.14			32,129.57
	Real Time Supplemental Reserve Amount	55500-0074	10.99		7.18			1.17			8.35
	Supplemental Reserve Cost Distribution Amount	55500-0075	4,545.22		2,970.76			483.61			3,454.37
	Day-Ahead Short-Term Reserve Amount	55500-0082	-		-			-			-
	Real-Time Short-Term Reserve Amount	55500-0083	-		-			-			-
	Short-Term Reserve Cost Distribution Amount	55500-0084	-		-			-			-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-			-			-
	Subtotal		17,940.90	686,763	105,544.43	686,763	115,362	17,181.65	115,362	(15,272.74)	13,635.08
	Grand Total		4,887,576.85	686,763	4,124,017.44	686,763	115,362	671,658.87	115,362	(95,229.20)	4,115,467.73

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

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

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

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

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MISO MONTHLY ALLOCATION	Account Number	March 2021	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy														
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	6,371,185.25 (5,006,383.74)												
Day Ahead Non-Asset Energy	55500-0027													
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	229,871.99 (116.59)												
Excessive Energy Amount	55500-0066	(27,305.33)												
Non-Excessive Energy Amount	55500-0069	7,710.17												
Real Time Non-Asset Energy	55500-0043													
Subtotal		1,574,961.75	23,000					56,921						
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,022,046.80		29,626.18		-								
Day Ahead Financial Bilateral Transaction Loss	55500-0022	238,394.39		7,025.40		-								
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	14,017.92		406.34		-								
Real Time Distribution of Losses	55500-0041	(251,049.55)		-		(7,398.34)								
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-								
Subtotal		1,023,409.56	23,000	37,057.92	23,000	(7,398.34)		56,921		56,921				
Virtual Energy														
Day Ahead Virtual Energy	55500-0030	-												
Real Time Virtual Energy	55500-0049	-												
Subtotal		-	23,000	-	23,000	-		56,921		56,921				
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020	110,317.22		3,251.01		-								
Real Time Market Administration (Schedule 17)	55500-0036	11,122.36		327.77		-								
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	2,887.16		316.79		-								
Subtotal		124,326.74	23,000	3,895.58	23,000	-		56,921		56,921				
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	1,306,712.67		37,877.82		-								
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	165,734.73		4,804.17		-								
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	339,518.78		10,005.50		-								
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-								
Auction Revenue Rights Transaction Amount	55500-0058	(103,415.41)		-		(3,047.62)								
Financial Transmission Rights Annual Transaction Amount	55500-0059	205,009.39		6,041.56		-								
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	913.41		26.92		-								
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(54,501.41)		-		(1,606.14)								
Financial Transmission Rights Hourly Allocation	55500-0032	(312,368.27)		-		(9,205.39)								
Financial Transmission Rights Monthly Allocation	55500-0033	(24,873.43)		-		(733.01)								
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-								
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(2,872.51)		-		(84.65)								
FTR Guarantee Uplift Amount	55500-0055	2,872.51		84.65		-								
Financial Transmission Rights Monthly Transaction Amount	55500-0056	77,013.52		2,269.56		-								
Financial Transmission Rights Transaction	55500-0034	-		-		-								
Subtotal		1,599,743.97	23,000	61,110.18	23,000	(14,676.80)		56,921		56,921				
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	18,572.29		547.32		-								
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(18.60)		-		(0.55)								
Real Time Price Volatility Make Whole Payment	55500-0057	(140.14)		-		(4.13)								
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	113,764.67		3,352.61		-								
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-		-								
Subtotal		132,178.22	23,000	3,899.92	23,000	(4.68)		56,921		56,921				
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042	87.41		2.58		-								
Real Time Net Inadvertent Distribution	55500-0044	(2,220.89)		-		(65.45)								
Real Time Revenue Neutrality Uplift Amount	55500-0045	404,341.54		11,915.81		-								
Real Time Uninstructed Deviation	55500-0048	-		-		-								
Demand Response Allocation Uplift Amount	55500-0077	4,321.42		127.35		-								
Day Ahead Ramp Capability Amount	55500-0079	(2.69)		-		(0.33)								
Real Time Ramp Capability Amount	55500-0080	(10.30)		-		(0.30)								
Real Time Schedule 49 Cost Distribution Amount	55500-0081	8,499.22		250.47		-								
Subtotal		415,015.71	23,000	12,296.20	23,000	(66.08)		56,921		56,921				
Grandfathered Charge Types														
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-								
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-								
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-								
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-								
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-								
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-								
Subtotal		-	23,000	-	23,000	-		56,921		56,921				
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062	(94,675.61)		-		(2,790.06)								
Day Ahead Spinning Reserve Amount	55500-0063	(48,783.12)		-		(1,437.62)								
Day Ahead Supplemental Reserve Amount	55500-0064	(15.50)		-		(0.46)								
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-								
Net Regulation Adjustment Amount	55500-0068	(66.55)		-		(1.96)								
Real Time Regulation Amount	55500-0070	13,487.28		397.47		-								
Regulation Reserve Cost Distribution Amount	55500-0071	41,404.89		1,220.19		-								
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	51,248.92		1,510.29		-								
Real Time Spinning Reserve Amount	55500-0072	8,508.63		250.75		-								
Spinning Reserve Cost Distribution Amount	55500-0073	42,275.75		1,245.85		-								
Real Time Supplemental Reserve Amount	55500-0074	10.99		0.32		-								
Supplemental Reserve Cost Distribution Amount	55500-0075	4,545.22		133.95		-								
Day-Ahead Short-Term Reserve Amount	55500-0082	-		-		-								
Real-Time Short-Term Reserve Amount	55500-0083	-		-		-								
Short-Term Reserve Cost Distribution Amount	55500-0084	-		-		-								
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-								
Subtotal		17,940.90	23,000	4,758.81	23,000	(4,230.10)		56,921		56,921				
Grand Total		4,887,576.85	23,000	123,018.61	23,000	(26,376.00)		56,921		56,921				

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	March 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	6,371,185.25 (5,006,383.74)								
Day Ahead Non-Asset Energy	55500-0027									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	229,871.99 (116.59)								
Excessive Energy Amount	55500-0066	(27,305.33)								
Non-Excessive Energy Amount	55500-0069	7,710.17								
Real Time Non-Asset Energy	55500-0043									
Subtotal		1,574,961.75	164,313					125,522		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,022,046.80		211,648.55		-				
Day Ahead Financial Bilateral Transaction Loss	55500-0022	238,394.39		50,189.25		-				
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	14,017.92		2,902.87		-				
Real Time Distribution of Losses	55500-0041	(251,049.55)		-		(52,853.55)				
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-				
Subtotal		1,023,409.56	164,313	264,740.67	164,313	(52,853.55)		125,522	125,522	
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	164,313	-	164,313	-		125,522	125,522	
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	110,317.22		23,225.12		-				
Real Time Market Administration (Schedule 17)	55500-0036	11,122.36		2,341.59		-				
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	2,887.16		2,263.17		-				
Subtotal		124,326.74	164,313	27,829.89	164,313	-		125,522	125,522	
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	1,306,712.67		270,598.01		-				
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	165,734.73		34,320.85		-				
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	339,518.78		71,479.01		-				
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-				
Auction Revenue Rights Transaction Amount	55500-0058	(103,415.41)		-		(21,772.08)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	205,009.39		43,160.70		-				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	913.41		192.30		-				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(54,501.41)		-		(11,474.20)				
Financial Transmission Rights Hourly Allocation	55500-0032	(312,368.27)		-		(65,763.00)				
Financial Transmission Rights Monthly Allocation	55500-0033	(24,873.43)		-		(5,236.61)				
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(2,872.51)		-		(604.75)				
FTR Guarantee Uplift Amount	55500-0055	2,872.51		604.75		-				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	77,013.52		16,213.68		-				
Financial Transmission Rights Transaction	55500-0034	-		-		-				
Subtotal		1,599,743.97	164,313	436,569.30	164,313	(104,850.64)		125,522	125,522	
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	18,572.29		3,910.03		-				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(18.60)		-		(3.92)				
Real Time Price Volatility Make Whole Payment	55500-0057	(140.14)		-		(29.50)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	113,764.67		23,950.92		-				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-		-				
Subtotal		132,178.22	164,313	27,860.95	164,313	(33.42)		125,522	125,522	
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	87.41		18.40		-				
Real Time Net Inadvertent Distribution	55500-0044	(2,220.89)		-		(467.56)				
Real Time Revenue Neutrality Uplift Amount	55500-0045	404,341.54		85,126.16		-				
Real Time Uninstructed Deviation	55500-0048	-		-		-				
Demand Response Allocation Uplift Amount	55500-0077	4,321.42		909.79		-				
Day Ahead Ramp Capability Amount	55500-0079	(2.69)		-		(2.36)				
Real Time Ramp Capability Amount	55500-0080	(10.30)		-		(2.17)				
Real Time Schedule 49 Cost Distribution Amount	55500-0081	8,499.22		1,789.34		-				
Subtotal		415,015.71	164,313	87,843.70	164,313	(472.09)		125,522	125,522	
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-				
Subtotal		-	164,313	-	164,313	-		125,522	125,522	
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(94,675.61)		-		(19,932.09)				
Day Ahead Spinning Reserve Amount	55500-0063	(48,783.12)		-		(10,270.33)				
Day Ahead Supplemental Reserve Amount	55500-0064	(15.50)		-		(3.26)				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-				
Net Regulation Adjustment Amount	55500-0068	(66.55)		-		(14.01)				
Real Time Regulation Amount	55500-0070	13,487.28		2,839.48		-				
Regulation Reserve Cost Distribution Amount	55500-0071	41,404.89		8,716.99		-				
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	51,248.92		10,789.45		-				
Real Time Spinning Reserve Amount	55500-0072	8,508.63		1,791.32		-				
Spinning Reserve Cost Distribution Amount	55500-0073	42,275.75		8,900.33		-				
Real Time Supplemental Reserve Amount	55500-0074	10.99		2.31		-				
Supplemental Reserve Cost Distribution Amount	55500-0075	4,545.22		956.91		-				
Day-Ahead Short-Term Reserve Amount	55500-0082	-		-		-				
Real-Time Short-Term Reserve Amount	55500-0083	-		-		-				
Short-Term Reserve Cost Distribution Amount	55500-0084	-		-		-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-				
Subtotal		17,940.90	164,313	33,996.79	164,313	(30,219.69)		125,522	125,522	
Grand Total		4,887,576.85	164,313	878,841.30	164,313	(188,429.39)		125,522	125,522	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	April 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	8,390,533.79								
Day Ahead Non-Asset Energy	55500-0027	(3,287,154.90)								
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(260,927.11)								
Excessive Energy Amount	55500-0066	15,374.99								
Non-Excessive Energy Amount	55500-0069	895,026.67								
Real Time Non-Asset Energy	55500-0043	(50,029.56)								
Subtotal		5,702,823.87	154,971					114,188		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,100,132.66		240,591.93						
Day Ahead Financial Bilateral Transaction Loss	55500-0022	342,568.82		75,723.63						
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	10,925.14		2,389.26						
Real Time Distribution of Losses	55500-0041	(249,166.57)		-		(55,077.39)				
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-				
Subtotal		1,204,460.05	154,971	318,704.82	154,971	(55,077.39)		114,188	-	114,188
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	154,971	-	154,971	-		114,188	-	114,188
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	172,888.82		38,216.46						
Real Time Market Administration (Schedule 17)	55500-0036	18,630.34		4,118.17						
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	4,047.25		3,470.39						
Subtotal		195,566.41	154,971	45,805.02	154,971	-		114,188	-	114,188
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	6,400,710.37		1,399,794.14						
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	144,468.24		31,594.27						
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	180,243.67		39,842.23						
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-						
Auction Revenue Rights Transaction Amount	55500-0058	(103,415.41)		-		(22,859.61)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	205,009.39		45,316.60						
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	913.41		201.91						
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(54,501.41)		-		(12,047.34)				
Financial Transmission Rights Hourly Allocation	55500-0032	(439,838.40)		-		(97,224.73)				
Financial Transmission Rights Monthly Allocation	55500-0033	(14,049.18)		-		(3,105.52)				
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(8,699.23)		-		(1,922.93)				
FTR Guarantee Uplift Amount	55500-0055	8,266.39		1,827.26						
Financial Transmission Rights Monthly Transaction Amount	55500-0056	68,424.51		15,125.00						
Financial Transmission Rights Transaction	55500-0034	-		-		-				
Subtotal		6,387,532.35	154,971	1,533,701.41	154,971	(137,160.14)		114,188	-	114,188
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	18,169.83		4,016.38						
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(1,775.35)		-		(392.43)				
Real Time Price Volatility Make Whole Payment	55500-0057	(123,015.69)		-		(27,192.18)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	(8,266.88)		-		(1,827.36)				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	7,094.02		1,568.11						
Subtotal		(107,794.07)	154,971	5,584.49	154,971	(29,411.98)		114,188	-	114,188
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	2,171.94		480.10						
Real Time Net Inadvertent Distribution	55500-0044	(3,857.46)		-		(852.68)				
Real Time Revenue Neutrality Uplift Amount	55500-0045	213,039.02		47,091.52						
Real Time Uninstructed Deviation	55500-0048	-		-		-				
Demand Response Allocation Uplift Amount	55500-0077	6,733.83		1,488.49						
Day Ahead Ramp Capability Amount	55500-0079	(733.76)		-		(705.20)				
Real Time Ramp Capability Amount	55500-0080	180.20		39.83						
Real Time Schedule 49 Cost Distribution Amount	55500-0081	12,629.07		2,791.61						
Subtotal		230,162.84	154,971	51,891.56	154,971	(1,557.87)		114,188	-	114,188
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-				
Subtotal		-	154,971	-	154,971	-		114,188	-	114,188
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(29,388.26)		-		(6,496.17)				
Day Ahead Spinning Reserve Amount	55500-0063	(44,107.52)		-		(9,749.81)				
Day Ahead Supplemental Reserve Amount	55500-0064	(161.51)		-		(35.70)				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-				
Net Regulation Adjustment Amount	55500-0068	527.97		116.71						
Real Time Regulation Amount	55500-0070	7,544.47		1,667.68						
Regulation Reserve Cost Distribution Amount	55500-0071	43,487.22		9,612.70						
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	20,033.09		4,428.24						
Real Time Spinning Reserve Amount	55500-0072	20,128.32		4,449.29						
Spinning Reserve Cost Distribution Amount	55500-0073	43,796.81		9,681.13						
Real Time Supplemental Reserve Amount	55500-0074	137.14		30.31						
Supplemental Reserve Cost Distribution Amount	55500-0075	7,000.91		1,547.53						
Day-Ahead Short-Term Reserve Amount	55500-0082	-		-		-				
Real-Time Short-Term Reserve Amount	55500-0083	-		-		-				
Short-Term Reserve Cost Distribution Amount	55500-0084	-		-		-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-				
Subtotal		68,998.64	154,971	31,533.59	154,971	(16,281.68)		114,188	-	114,188
Grand Total		13,681,750.09	154,971	1,987,220.88	154,971	(239,489.08)		114,188	-	114,188

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	May 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	11,920,622.93 (7,040,527.29)								
Day Ahead Non-Asset Energy	55500-0027									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	722,387.77								
Excessive Energy Amount	55500-0066	1,607.70								
Non-Excessive Energy Amount	55500-0069	4,157.31								
Real Time Non-Asset Energy	55500-0043	(267,785.00)								
Subtotal		5,340,463.42	215,590					118,080		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	702,925.23		205,953.58		-				
Day Ahead Financial Bilateral Transaction Loss	55500-0022	294,780.89		85,854.07		-				
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	78,499.53		22,999.97		-				
Real Time Distribution of Losses	55500-0041	(179,853.90)		-		(107,353.13)				
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-				
Subtotal		896,351.74	215,590	314,807.61	215,590	(107,353.13)		118,080	118,080	
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	215,590	-	215,590	-		118,080	118,080	-
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	159,172.72		46,358.59		-				
Real Time Market Administration (Schedule 17)	55500-0036	17,609.10		5,128.60		-				
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	2,920.39		3,602.30		-				
Subtotal		179,702.21	215,590	55,089.49	215,590	-		118,080	118,080	-
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	716,685.15		209,985.17		-				
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(51,608.60)		-		(30,869.74)				
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	296,248.05		86,281.37		-				
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-				
Auction Revenue Rights Transaction Amount	55500-0058	(103,415.41)		-		(61,727.70)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	205,009.39		59,708.38		-				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	913.41		266.03		-				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(54,501.41)		-		(32,531.39)				
Financial Transmission Rights Hourly Allocation	55500-0032	212,741.38		61,960.30		-				
Financial Transmission Rights Monthly Allocation	55500-0033	(15,477.80)		-		(9,238.56)				
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	5,226.54		1,522.21		-				
FTR Guarantee Uplift Amount	55500-0055	(4,788.88)		-		(2,858.44)				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	35,162.99		10,241.12		-				
Financial Transmission Rights Transaction	55500-0034	-		-		-				
Subtotal		1,242,194.81	215,590	429,964.58	215,590	(137,225.82)		118,080	118,080	-
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	28,598.05		8,329.10		-				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(17,440.15)		-		(10,409.86)				
Real Time Price Volatility Make Whole Payment	55500-0057	(6,483.24)		-		(3,869.79)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	96,331.35		28,056.22		-				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(151,703.07)		-		(90,550.16)				
Subtotal		(50,697.06)	215,590	36,385.32	215,590	(104,829.81)		118,080	118,080	-
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	(676.81)		-		(403.98)				
Real Time Net Inadvertent Distribution	55500-0044	7,459.37		2,172.52		-				
Real Time Revenue Neutrality Uplift Amount	55500-0045	269,195.25		78,402.32		-				
Real Time Uninstructed Deviation	55500-0048	-		-		-				
Demand Response Allocation Uplift Amount	55500-0077	5,654.30		1,646.80		-				
Day Ahead Ramp Capability Amount	55500-0079	(390.50)		-		(541.58)				
Real Time Ramp Capability Amount	55500-0080	(137.55)		-		(82.10)				
Real Time Schedule 49 Cost Distribution Amount	55500-0081	13,122.05		3,821.76		-				
Subtotal		294,226.11	215,590	86,043.40	215,590	(1,027.66)		118,080	118,080	-
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-				
Subtotal		-	215,590	-	215,590	-		118,080	118,080	-
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(25,329.97)		-		(15,119.22)				
Day Ahead Spinning Reserve Amount	55500-0063	(73,556.34)		-		(43,905.10)				
Day Ahead Supplemental Reserve Amount	55500-0064	(99.73)		-		(59.53)				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-				
Net Regulation Adjustment Amount	55500-0068	547.38		159.42		-				
Real Time Regulation Amount	55500-0070	11,077.41		3,226.26		-				
Regulation Reserve Cost Distribution Amount	55500-0071	44,318.04		12,907.50		-				
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	5,560.59		1,619.51		-				
Real Time Spinning Reserve Amount	55500-0072	(12,870.71)		-		(7,682.41)				
Spinning Reserve Cost Distribution Amount	55500-0073	48,651.97		14,169.74		-				
Real Time Supplemental Reserve Amount	55500-0074	(76.99)		-		(45.95)				
Supplemental Reserve Cost Distribution Amount	55500-0075	7,248.07		2,110.98		-				
Day-Ahead Short-Term Reserve Amount	55500-0082	-		-		-				
Real-Time Short-Term Reserve Amount	55500-0083	-		-		-				
Short-Term Reserve Cost Distribution Amount	55500-0084	-		-		-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-				
Subtotal		5,469.72	215,590	34,193.41	215,590	(66,812.21)		118,080	118,080	-
Grand Total		7,907,710.96	215,590	956,483.82	215,590	(417,248.64)		118,080	118,080	-

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	June 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	16,912,020.15 (7,074,477.52)								
Day Ahead Non-Asset Energy	55500-0027									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(1,130,865.98)								
Excessive Energy Amount	55500-0066	11,269.97								
Non-Excessive Energy Amount	55500-0069	560,650.44								
Real Time Non-Asset Energy	55500-0043	1,304,415.24								
Subtotal		10,583,012.31	219,773					123,196		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,198,936.37		360,671.37		-				
Day Ahead Financial Bilateral Transaction Loss	55500-0022	207,417.27		62,063.41		-				
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	177,436.17		53,377.43		-				
Real Time Distribution of Losses	55500-0041	(557,351.24)		-		(295,929.48)				
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-				
Subtotal		1,026,438.57	219,773	476,112.22	219,773	(295,929.48)		123,196	123,196	
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	219,773	-	219,773	-		123,196	123,196	
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	131,767.72		39,427.55		-				
Real Time Market Administration (Schedule 17)	55500-0036	17,727.90		5,304.54		-				
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,444.81		3,963.93		-				
Subtotal		152,940.43	219,773	48,696.02	219,773	-		123,196	123,196	
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	5,596,209.12		1,683,485.87		-				
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	1,434,037.07		431,395.80		-				
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	(806,679.88)		-		(428,312.24)				
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-				
Auction Revenue Rights Transaction Amount	55500-0058	(502,863.86)		-		(266,999.03)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	566,873.03		169,619.80		-				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	29,097.20		8,706.47		-				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(151,067.70)		-		(80,210.44)				
Financial Transmission Rights Hourly Allocation	55500-0032	(78,717.43)		-		(41,795.56)				
Financial Transmission Rights Monthly Allocation	55500-0033	(9,978.72)		-		(5,298.27)				
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	6,416.68		1,920.00		-				
FTR Guarantee Uplift Amount	55500-0055	(6,368.33)		-		(3,381.31)				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-				
Financial Transmission Rights Transaction	55500-0034	-		-		-				
Subtotal		6,076,957.18	219,773	2,295,127.93	219,773	(825,996.86)		123,196	123,196	
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	16,285.82		4,873.04		-				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(53,506.54)		-		(28,409.67)				
Real Time Price Volatility Make Whole Payment	55500-0057	(12,885.82)		-		(6,841.81)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	135,023.31		40,401.69		-				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(234,272.63)		-		(124,388.67)				
Subtotal		(149,355.86)	219,773	45,274.73	219,773	(159,640.15)		123,196	123,196	
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	2,346.75		702.19		-				
Real Time Net Inadvertent Distribution	55500-0044	(19,402.44)		-		(10,301.86)				
Real Time Revenue Neutrality Uplift Amount	55500-0045	308,273.88		92,241.74		-				
Real Time Uninstructed Deviation	55500-0048	-		-		-				
Demand Response Allocation Uplift Amount	55500-0077	15,149.69		4,533.09		-				
Day Ahead Ramp Capability Amount	55500-0079	(759.90)		-		(988.60)				
Real Time Ramp Capability Amount	55500-0080	(130.68)		-		(69.39)				
Real Time Schedule 49 Cost Distribution Amount	55500-0081	16,848.65		5,041.45		-				
Subtotal		322,325.95	219,773	102,518.48	219,773	(11,359.84)		123,196	123,196	
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-				
Subtotal		-	219,773	-	219,773	-		123,196	123,196	
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(32,484.89)		-		(17,248.08)				
Day Ahead Spinning Reserve Amount	55500-0063	(77,551.94)		-		(41,176.74)				
Day Ahead Supplemental Reserve Amount	55500-0064	(557.43)		-		(295.97)				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	293.11		87.70		-				
Net Regulation Adjustment Amount	55500-0068	(1,027.82)		-		(545.73)				
Real Time Regulation Amount	55500-0070	1,993.24		596.42		-				
Regulation Reserve Cost Distribution Amount	55500-0071	38,749.83		11,594.73		-				
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	12,407.40		3,712.54		-				
Real Time Spinning Reserve Amount	55500-0072	31,716.80		9,490.30		-				
Spinning Reserve Cost Distribution Amount	55500-0073	39,149.59		11,714.34		-				
Real Time Supplemental Reserve Amount	55500-0074	(3,707.18)		-		(1,968.35)				
Supplemental Reserve Cost Distribution Amount	55500-0075	21,109.72		6,316.45		-				
Day-Ahead Short-Term Reserve Amount	55500-0082	-		-		-				
Real-Time Short-Term Reserve Amount	55500-0083	-		-		-				
Short-Term Reserve Cost Distribution Amount	55500-0084	-		-		-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-				
Subtotal		30,090.43	219,773	43,512.49	219,773	(61,234.87)		123,196	123,196	
Grand Total		18,042,409.00	219,773	3,011,241.88	219,773	(1,354,161.20)		123,196	123,196	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	July 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	15,814,255.08 (8,791,057.54)								
Day Ahead Non-Asset Energy	55500-0027									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	55,761.61								
Excessive Energy Amount	55500-0066	4.02								
Non-Excessive Energy Amount	55500-0069	1,129,973.23								
Real Time Non-Asset Energy	55500-0043	189,276.43								
Subtotal		8,398,212.83	289,696					244,827		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,442,514.59		568,980.11		-				
Day Ahead Financial Bilateral Transaction Loss	55500-0022	186,365.28		76,145.25		-				
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	173,592.08		68,471.02		-				
Real Time Distribution of Losses	55500-0041	(563,380.36)		-		(291,477.94)				
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-				
Subtotal		1,239,091.59	289,696	713,596.37	289,696	(291,477.94)		244,827	244,827	
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	289,696	-	289,696	-		244,827	244,827	
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	129,860.21		53,058.37		-				
Real Time Market Administration (Schedule 17)	55500-0036	12,450.18		5,086.90		-				
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	4,069.27		4,225.44		-				
Subtotal		146,379.66	289,696	62,370.71	289,696	-		244,827	244,827	
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	1,516,059.44		597,988.87		-				
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	264,639.45		104,383.40		-				
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	(190.50)		-		(98.56)				
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-				
Auction Revenue Rights Transaction Amount	55500-0058	(502,863.86)		-		(260,168.32)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	566,873.03		231,613.35		-				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	29,097.20		11,888.55		-				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(151,067.70)		-		(78,158.39)				
Financial Transmission Rights Hourly Allocation	55500-0032	(550,453.24)		-		(284,789.79)				
Financial Transmission Rights Monthly Allocation	55500-0033	(2,503.44)		-		(1,295.21)				
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	1,593.86		651.22		-				
FTR Guarantee Uplift Amount	55500-0055	(1,593.86)		-		(824.62)				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-				
Financial Transmission Rights Transaction	55500-0034	-		-		-				
Subtotal		1,169,590.38	289,696	946,525.39	289,696	(625,334.89)		244,827	244,827	
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	21,500.00		8,784.48		-				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(9,832.58)		-		(5,087.11)				
Real Time Price Volatility Make Whole Payment	55500-0057	(978.80)		-		(506.40)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	315,388.99		128,861.84		-				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(145,436.71)		-		(75,245.07)				
Subtotal		180,640.90	289,696	137,646.32	289,696	(80,838.59)		244,827	244,827	
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	(71.67)		-		(37.08)				
Real Time Net Inadvertent Distribution	55500-0044	(19,615.71)		-		(10,148.64)				
Real Time Revenue Neutrality Uplift Amount	55500-0045	95,849.94		39,162.43		-				
Real Time Uninstructed Deviation	55500-0048	-		-		-				
Demand Response Allocation Uplift Amount	55500-0077	29,175.00		11,920.34		-				
Day Ahead Ramp Capability Amount	55500-0079	(164.91)		-		(192.51)				
Real Time Ramp Capability Amount	55500-0080	(1,171.86)		-		(606.29)				
Real Time Schedule 49 Cost Distribution Amount	55500-0081	20,639.14		8,432.75		-				
Subtotal		124,639.93	289,696	59,515.52	289,696	(10,984.52)		244,827	244,827	
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-				
Subtotal		-	289,696	-	289,696	-		244,827	244,827	
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(69,346.27)		-		(35,877.91)				
Day Ahead Spinning Reserve Amount	55500-0063	(62,768.18)		-		(32,474.58)				
Day Ahead Supplemental Reserve Amount	55500-0064	130.07		53.14		-				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-				
Net Regulation Adjustment Amount	55500-0068	(932.65)		-		(482.53)				
Real Time Regulation Amount	55500-0070	12,457.62		5,089.94		-				
Regulation Reserve Cost Distribution Amount	55500-0071	42,873.06		17,517.10		-				
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	23,703.18		9,684.66		-				
Real Time Spinning Reserve Amount	55500-0072	(4,044.22)		-		(2,092.37)				
Spinning Reserve Cost Distribution Amount	55500-0073	50,740.02		20,731.39		-				
Real Time Supplemental Reserve Amount	55500-0074	(1,903.36)		-		(984.75)				
Supplemental Reserve Cost Distribution Amount	55500-0075	8,604.45		3,515.61		-				
Day-Ahead Short-Term Reserve Amount	55500-0082	-		-		-				
Real-Time Short-Term Reserve Amount	55500-0083	-		-		-				
Short-Term Reserve Cost Distribution Amount	55500-0084	-		-		-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-				
Subtotal		(486.28)	289,696	56,591.85	289,696	(71,912.13)		244,827	244,827	
Grand Total		11,258,069.01	289,696	1,976,246.18	289,696	(1,080,548.07)		244,827	244,827	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	August 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	13,214,190.46 (7,410,362.72)								
Day Ahead Non-Asset Energy	55500-0027									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(646,712.86)								
Excessive Energy Amount	55500-0066	(687.35)								
Non-Excessive Energy Amount	55500-0069	609,716.86								
Real Time Non-Asset Energy	55500-0043	107,327.62								
Subtotal		5,873,472.01	230,472					230,549		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,047,518.60		747,255.08		-				
Day Ahead Financial Bilateral Transaction Loss	55500-0022	741,199.89		271,741.45		-				
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(51,921.56)		-		(25,506.33)				
Real Time Distribution of Losses	55500-0041	(656,889.92)		-		(323,621.51)				
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-				
Subtotal		2,079,907.01	230,472	1,018,996.53	230,472	(349,127.83)		230,549		230,549
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	230,472	-	230,472	-		230,549		230,549
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	148,635.81		54,493.41		-				
Real Time Market Administration (Schedule 17)	55500-0036	14,034.81		5,145.49		-				
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,556.11		3,770.37		-				
Subtotal		166,226.73	230,472	63,409.28	230,472	-		230,549		230,549
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	5,069,888.54		1,850,288.43		-				
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	42,195.68		15,399.58		-				
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	525,366.91		192,611.97		-				
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-				
Auction Revenue Rights Transaction Amount	55500-0058	(502,863.86)		-		(247,739.47)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	566,873.03		207,829.09		-				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	29,097.20		10,667.72		-				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(151,067.70)		-		(74,424.58)				
Financial Transmission Rights Hourly Allocation	55500-0032	(1,957,929.82)		-		(964,588.09)				
Financial Transmission Rights Monthly Allocation	55500-0033	(2,261.66)		-		(1,114.22)				
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(41,358.16)		-		(20,375.39)				
FTR Guarantee Uplift Amount	55500-0055	41,358.16		15,162.88		-				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-				
Financial Transmission Rights Transaction	55500-0034	-		-		-				
Subtotal		3,619,298.32	230,472	2,291,959.68	230,472	(1,308,241.76)		230,549		230,549
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	26,444.76		9,695.28		-				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(67,044.46)		-		(33,029.93)				
Real Time Price Volatility Make Whole Payment	55500-0057	(4,435.46)		-		(2,185.16)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	95,482.49		35,006.14		-				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(674,457.02)		-		(332,276.06)				
Subtotal		(624,009.69)	230,472	44,701.42	230,472	(367,491.16)		230,549		230,549
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	(2,368.76)		-		(1,166.99)				
Real Time Net Inadvertent Distribution	55500-0044	2,247.08		823.83		-				
Real Time Revenue Neutrality Uplift Amount	55500-0045	50,071.35		18,357.34		-				
Real Time Uninstructed Deviation	55500-0048	-		-		-				
Demand Response Allocation Uplift Amount	55500-0077	28,749.65		10,540.30		-				
Day Ahead Ramp Capability Amount	55500-0079	(589.88)		-		(697.63)				
Real Time Ramp Capability Amount	55500-0080	(872.92)		-		(430.05)				
Real Time Schedule 49 Cost Distribution Amount	55500-0081	21,874.86		8,019.84		-				
Subtotal		99,111.38	230,472	37,741.32	230,472	(2,294.66)		230,549		230,549
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-				
Subtotal		-	230,472	-	230,472	-		230,549		230,549
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(86,418.37)		-		(42,574.63)				
Day Ahead Spinning Reserve Amount	55500-0063	(69,839.46)		-		(34,406.91)				
Day Ahead Supplemental Reserve Amount	55500-0064	(400.70)		-		(197.41)				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-				
Net Regulation Adjustment Amount	55500-0068	1,751.61		642.18		-				
Real Time Regulation Amount	55500-0070	4,446.77		1,630.29		-				
Regulation Reserve Cost Distribution Amount	55500-0071	40,729.39		14,932.36		-				
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	28,673.79		10,512.49		-				
Real Time Spinning Reserve Amount	55500-0072	(19,021.37)		-		(9,371.01)				
Spinning Reserve Cost Distribution Amount	55500-0073	44,699.10		16,387.75		-				
Real Time Supplemental Reserve Amount	55500-0074	(962.05)		-		(473.96)				
Supplemental Reserve Cost Distribution Amount	55500-0075	14,111.44		5,173.59		-				
Day-Ahead Short-Term Reserve Amount	55500-0082	-		-		-				
Real-Time Short-Term Reserve Amount	55500-0083	-		-		-				
Short-Term Reserve Cost Distribution Amount	55500-0084	-		-		-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-				
Subtotal		(42,229.85)	230,472	49,278.66	230,472	(87,023.92)		230,549		230,549
Grand Total		11,171,775.91	230,472	3,506,086.90	230,472	(2,114,179.33)		230,549		230,549

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	September 2021	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy														
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	19,828,837.86 (8,241,084.43)												
Day Ahead Non-Asset Energy	55500-0027													
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	885,502.34 4,824.45												
Excessive Energy Amount	55500-0066	(601,769.64)												
Non-Excessive Energy Amount	55500-0069	(498,843.76)												
Real Time Non-Asset Energy	55500-0043													
Subtotal		11,377,466.83	(46,581)					46,581					44,458	
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,817,863.09												
Day Ahead Financial Bilateral Transaction Loss	55500-0022	1,163,015.59												
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(91,207.47)												
Real Time Distribution of Losses	55500-0041	(668,432.37)												
Real Time Financial Bilateral Transaction Loss	55500-0038	-												
Subtotal		2,221,238.83	(46,581)	200,070.12	(46,581)	(237,827.68)		46,581		46,581			44,458	
Virtual Energy														
Day Ahead Virtual Energy	55500-0030	-												
Real Time Virtual Energy	55500-0049	-												
Subtotal		-	(46,581)		(46,581)			46,581		46,581			44,458	
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020	141,462.41												
Real Time Market Administration (Schedule 17)	55500-0036	18,120.63												
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,115.79												
Subtotal		162,698.83	(46,581)		(46,581)	(13,349.25)		46,581		46,581			44,458	
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	5,073,876.94												
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(226,227.86)												
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	1,366,972.21												
Real Time Financial Bilateral Transaction Congestion	55500-0037	-												
Auction Revenue Rights Transaction Amount	55500-0058	(525,629.64)												
Financial Transmission Rights Annual Transaction Amount	55500-0059	504,968.95												
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	31,914.56												
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(214,957.90)												
Financial Transmission Rights Hourly Allocation	55500-0032	(2,565,751.21)												
Financial Transmission Rights Monthly Allocation	55500-0033	(90,767.76)												
Financial Transmission Rights Yearly Allocation	55500-0035	-												
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(23,884.72)												
FTR Guarantee Uplift Amount	55500-0055	23,884.72												
Financial Transmission Rights Monthly Transaction Amount	55500-0056	151,489.13												
Financial Transmission Rights Transaction	55500-0034	-												
Subtotal		3,505,887.42	(46,581)	960,586.24	(46,581)	(571,607.23)		46,581		46,581			44,458	
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	29,789.70												
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	6,937.07												
Real Time Price Volatility Make Whole Payment	55500-0057	(1,235.79)												
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	231,503.68												
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(859,370.79)												
Subtotal		(592,376.13)	(46,581)	226,662.24	(46,581)	(21,193.56)		46,581		46,581			44,458	
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042	(7,053.12)												
Real Time Net Inadvertent Distribution	55500-0044	(6,864.54)												
Real Time Revenue Neutrality Uplift Amount	55500-0045	451,179.05												
Real Time Uninstructed Deviation	55500-0048	-												
Demand Response Allocation Uplift Amount	55500-0077	43,053.97												
Day Ahead Ramp Capability Amount	55500-0079	(46.54)												
Real Time Ramp Capability Amount	55500-0080	(3,387.64)												
Real Time Schedule 49 Cost Distribution Amount	55500-0081	18,683.04												
Subtotal		495,564.22	(46,581)	4,570.04	(46,581)	(40,526.78)		46,581		46,581			44,458	
Grandfathered Charge Types														
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-												
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-												
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-												
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-												
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-												
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-												
Subtotal		-	(46,581)		(46,581)			46,581		46,581			44,458	
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062	(60,983.79)												
Day Ahead Spinning Reserve Amount	55500-0063	(101,128.29)												
Day Ahead Supplemental Reserve Amount	55500-0064	(4.09)												
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-												
Net Regulation Adjustment Amount	55500-0068	(1,021.62)												
Real Time Regulation Amount	55500-0070	34,076.30												
Regulation Reserve Cost Distribution Amount	55500-0071	44,082.45												
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	16,907.29												
Real Time Spinning Reserve Amount	55500-0072	(21,563.86)												
Spinning Reserve Cost Distribution Amount	55500-0073	35,530.47												
Real Time Supplemental Reserve Amount	55500-0074	(627.49)												
Supplemental Reserve Cost Distribution Amount	55500-0075	4,920.40												
Day-Ahead Short-Term Reserve Amount	55500-0082	-												
Real-Time Short-Term Reserve Amount	55500-0083	-												
Short-Term Reserve Cost Distribution Amount	55500-0084	-												
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-												
Subtotal		(49,812.23)	(46,581)	48,811.06	(46,581)	(10,707.53)		46,581		46,581			44,458	
Grand Total		17,120,667.77	(46,581)	1,440,699.69	(46,581)	(895,212.03)		46,581		46,581			44,458	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	September 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	19,828,837.86 (8,241,084.43)								
Day Ahead Non-Asset Energy	55500-0027									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	885,502.34 4,824.45								
Excessive Energy Amount	55500-0066	(601,769.64)								
Non-Excessive Energy Amount	55500-0069	(498,843.76)								
Real Time Non-Asset Energy	55500-0043									
Subtotal		11,377,466.83	223,444					230,358		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,817,863.09 1,163,015.59		700,030.56 440,797.44		- -				
Day Ahead Financial Bilateral Transaction Loss	55500-0022									
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(91,207.47)				(51,822.35)				
Real Time Distribution of Losses	55500-0041	(668,432.37)				(376,578.07)				
Real Time Financial Bilateral Transaction Loss	55500-0038									
Subtotal		2,221,238.83	223,444	1,140,828.00	223,444	(428,400.42)		230,358	-	230,358
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	223,444	-	223,444	-		230,358	-	230,358
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	141,462.41		53,616.02		-				
Real Time Market Administration (Schedule 17)	55500-0036	18,120.63		6,867.95		-				
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,115.79		3,550.64		-				
Subtotal		162,698.83	223,444	64,034.61	223,444	-		230,358	-	230,358
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	5,073,876.94		1,953,870.43		-				
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(226,227.86)				(128,538.37)				
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	1,366,972.21		518,099.54		-				
Real Time Financial Bilateral Transaction Congestion	55500-0037	-				-				
Auction Revenue Rights Transaction Amount	55500-0058	(525,629.64)				(296,126.59)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	504,968.95		191,389.54		-				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	31,914.56		12,096.02		-				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(214,957.90)				(121,101.90)				
Financial Transmission Rights Hourly Allocation	55500-0032	(2,565,751.21)				(1,445,480.02)				
Financial Transmission Rights Monthly Allocation	55500-0033	(90,767.76)				(51,136.28)				
Financial Transmission Rights Yearly Allocation	55500-0035	-				-				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(23,884.72)				(13,456.05)				
FTR Guarantee Uplift Amount	55500-0055	23,884.72		9,052.61		-				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	151,489.13		57,416.27		-				
Financial Transmission Rights Transaction	55500-0034	-				-				
Subtotal		3,505,887.42	223,444	2,741,924.41	223,444	(2,055,839.22)		230,358	-	230,358
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	29,789.70		11,290.67		-				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	6,937.07		2,629.24		-				
Real Time Price Volatility Make Whole Payment	55500-0057	(1,235.79)				(696.21)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	231,503.68		87,742.79		-				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(859,370.79)				(484,148.00)				
Subtotal		(592,376.13)	223,444	101,662.69	223,444	(484,844.21)		230,358	-	230,358
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	(7,053.12)				(3,973.55)				
Real Time Net Inadvertent Distribution	55500-0044	(6,864.54)				(3,867.31)				
Real Time Revenue Neutrality Uplift Amount	55500-0045	451,179.05		171,002.50		-				
Real Time Uninstructed Deviation	55500-0048	-				-				
Demand Response Allocation Uplift Amount	55500-0077	43,053.97		16,317.99		-				
Day Ahead Ramp Capability Amount	55500-0079	(46.54)				(58.80)				
Real Time Ramp Capability Amount	55500-0080	(3,387.64)				(1,908.51)				
Real Time Schedule 49 Cost Distribution Amount	55500-0081	18,683.04		7,081.11		-				
Subtotal		495,564.22	223,444	194,401.59	223,444	(9,808.17)		230,358	-	230,358
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-				-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-				-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-				-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-				-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-				-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-				-				
Subtotal		-	223,444	-	223,444	-		230,358	-	230,358
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(60,983.79)				(34,356.74)				
Day Ahead Spinning Reserve Amount	55500-0063	(101,128.29)				(56,973.15)				
Day Ahead Supplemental Reserve Amount	55500-0064	(4.09)				(2.30)				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-				-				
Net Regulation Adjustment Amount	55500-0068	(1,021.62)				(575.56)				
Real Time Regulation Amount	55500-0070	34,076.30		12,915.34		-				
Regulation Reserve Cost Distribution Amount	55500-0071	44,082.45		16,707.80		-				
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	16,907.29		6,408.07		-				
Real Time Spinning Reserve Amount	55500-0072	(21,563.86)				(12,148.54)				
Spinning Reserve Cost Distribution Amount	55500-0073	35,530.47		13,466.49		-				
Real Time Supplemental Reserve Amount	55500-0074	(627.49)				(353.51)				
Supplemental Reserve Cost Distribution Amount	55500-0075	4,920.40		1,864.89		-				
Day-Ahead Short-Term Reserve Amount	55500-0082	-				-				
Real-Time Short-Term Reserve Amount	55500-0083	-				-				
Short-Term Reserve Cost Distribution Amount	55500-0084	-				-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-				-				
Subtotal		(49,812.23)	223,444	51,362.60	223,444	(104,409.80)		230,358	-	230,358
Grand Total		17,120,667.77	223,444	4,294,213.90	223,444	(3,083,301.83)		230,358	-	230,358

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	October 2021	FPE Retail				FAC Resale				Subtotal FPE and FAC Cost/(Revenue)
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	
Day Ahead and Real Time Energy											
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050									
	Day Ahead Non-Asset Energy	55500-0027	19,119,084.33								-
			(12,138,498.63)								-
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050									-
	Excessive Energy Amount	55500-0066	612,856.77								-
			(139.18)								-
	Non-Excessive Energy Amount	55500-0069	(1,407,274.85)								-
22	Real Time Non-Asset Energy	55500-0043	(42,072.13)								-
	Subtotal		6,143,956.31	628,436	4,626,110.44	628,436	4,626,110.44	111,651	816,372.43	111,651	5,442,482.87
Day Ahead and Real Time Energy Loss											
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050									-
	Day Ahead Financial Bilateral Transaction Loss	55500-0022	2,344,744.66		1,400,316.14				247,114.61		1,647,430.75
			887,540.34		528,086.50				93,191.74		621,278.24
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050									-
	Real Time Distribution of Losses	55500-0041	53,430.16		31,909.28				5,631.05		37,540.33
			(751,882.03)		-				(78,947.61)		(526,317.42)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-				-		-
	Subtotal		2,533,833.13	628,436	1,960,311.92	628,436	(447,369.81)	111,651	345,937.40	111,651	1,779,931.89
Virtual Energy											
12	Day Ahead Virtual Energy	55500-0030	-		-				-		-
27	Real Time Virtual Energy	55500-0049	-		-				-		-
	Subtotal		-	628,436	-	628,436	-	111,651	-	111,651	-
Schedule 16 & 17 - 1/											
4	Day Ahead Market Administration (Schedule 17)	55500-0020	143,549.51		85,411.96				15,072.70		100,484.66
19	Real Time Market Administration (Schedule 17)	55500-0036	16,316.84		9,708.52				1,713.27		11,421.79
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,014.26		-				316.50		316.50
	Subtotal		162,880.61	628,436	95,120.48	628,436	-	111,651	17,102.46	111,651	112,222.94
Congestion, FTRs & ARRs											
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050									-
			5,920,713.31		3,535,937.41				623,988.96		4,159,926.37
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050									-
			177,601.30		106,066.12				18,717.55		124,783.67
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	264,095.41		157,136.77				27,730.02		184,866.79
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-				-		-
	Auction Revenue Rights Transaction Amount	55500-0058	(525,629.64)		-		(312,749.64)		-	(55,191.11)	(367,940.75)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	504,968.95		300,456.53				53,021.74		353,478.27
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	31,914.56		18,989.16				3,351.03		22,340.19
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(214,957.90)		-		(127,899.95)		(22,570.58)		(150,470.53)
28	Financial Transmission Rights Hourly Allocation	55500-0032	(1,985,238.71)		-		(1,181,217.03)		-	(208,450.06)	(1,389,667.10)
30	Financial Transmission Rights Monthly Allocation	55500-0033	(23,286.33)		-		(13,855.37)		-	(2,445.06)	(16,300.43)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(130,148.86)		-		(77,438.57)		(13,665.63)		(91,104.20)
	FTR Guarantee Uplift Amount	55500-0055	149,166.86		88,754.28		-		15,662.52		104,416.80
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	176,348.73		104,927.49		-		18,516.62		123,444.11
31	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-
	Subtotal		4,345,547.67	628,436	4,312,267.76	628,436	(1,713,160.56)	111,651	760,988.43	111,651	(302,322.45)
RSG & Make Whole Payments											
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	48,885.04		29,086.60		-		5,132.93		34,219.53
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(26,896.45)		-		(16,003.39)		-	(2,824.13)	(18,827.52)
	Real Time Price Volatility Make Whole Payment	55500-0057	(16,632.64)		-		(9,896.42)		-	(1,746.43)	(11,642.85)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	142,486.54		84,779.49		-		14,961.09		99,740.50
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	19,372.27		11,526.50		-		2,034.09		13,560.59
	Subtotal		167,214.76	628,436	125,392.59	628,436	(25,899.81)	111,651	22,128.10	111,651	(4,570.55)
RNU & Misc Charges											
20	Real Time Miscellaneous	55500-0042	(5,993.36)		-		(3,566.05)		-	(629.30)	(4,195.35)
21	Real Time Net Inadvertent Distribution	55500-0044	(23,693.40)		-		(14,097.57)		-	(2,487.81)	(16,585.38)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	406,642.49		241,952.28		-		42,697.46		284,649.74
26	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-
27	Demand Response Allocation Uplift Amount	55500-0077	106,441.55		63,332.72		-		11,176.36		74,509.09
33	Day Ahead Ramp Capability Amount	55500-0079	(497.67)		-		-		-		-
34	Real Time Ramp Capability Amount	55500-0080	(3,436.99)		-		(2,045.01)		-	(360.88)	(2,405.89)
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	18,891.13		11,240.22		-		1,983.57		13,223.79
	Subtotal		498,353.75	628,436	316,525.23	628,436	(19,708.63)	111,651	55,857.39	111,651	(3,477.99)
Grandfathered Charge Types											
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-		-		-
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-		-		-
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-		-		-
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-		-		-
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-		-		-
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-		-		-
	Subtotal		-	628,436	-	628,436	-	111,651	-	111,651	-
ASM Charge Types (12 Other)											
	Day Ahead Regulation Amount	55500-0062	(36,434.32)		-		(21,678.42)		-	(3,825.60)	(25,504.02)
	Day Ahead Spinning Reserve Amount	55500-0063	(79,210.96)		-		(47,130.52)		-	(8,317.15)	(55,447.67)
	Day Ahead Supplemental Reserve Amount	55500-0064	(170.93)		-		(101.70)		-	(17.95)	(119.65)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-	-	-
	Net Regulation Adjustment Amount	55500-0068	1,832.71		1,090.46		-		192.43		1,282.90
	Real Time Regulation Amount	55500-0070	5,013.64		2,983.12		-		526.43		3,509.55
	Regulation Reserve Cost Distribution Amount	55500-0071	53,499.55		31,832.23		-		5,617.45		37,449.69
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	14,719.86		8,758.32		-		1,545.59		10,303.90
	Real Time Spinning Reserve Amount	55500-0072	5,798.50		3,450.11		-		608.84		4,058.95
	Spinning Reserve Cost Distribution Amount	55500-0073	71,430.25		42,501.00		-		7,500.18		50,001.18
	Real Time Supplemental Reserve Amount	55500-0074	(1,134.62)		-		(675.10)		-	(119.14)	(794.23)
	Supplemental Reserve Cost Distribution Amount	55500-0075	14,390.97		8,562.63		-		1,511.05		10,073.68
	Day-Ahead Short-Term Reserve Amount	55500-0082	-		-		-		-		-
	Real-Time Short-Term Reserve Amount	55500-0083	-		-		-		-		-
	Short-Term Reserve Cost Distribution Amount	55500-0084	-		-		-		-		-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-		-		-
	Subtotal		49,734.65	628,436	99,177.86	628,436	(69,585.74)	111,651	17,501.98	111,651	(12,279.84)
	Grand Total		13,901,520.88	628,436	11,534,906.28	628,436	(2,275,724.55)	111,651	2,035,888.19	111,651	(401,598.45)

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

NOTE:

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

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

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

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MISO MONTHLY ALLOCATION	Account Number	October 2021	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy														
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	19,119,084.33 (12,138,498.63)												
Day Ahead Non-Asset Energy	55500-0027													
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	612,856.77 (139.18)												
Excessive Energy Amount	55500-0066	(1,407,274.85)												
Non-Excessive Energy Amount	55500-0069	(42,072.13)												
Real Time Non-Asset Energy	55500-0043													
Subtotal		6,143,956.31	(86,645)			86,645			86,645			55,068		
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,344,744.66												
Day Ahead Financial Bilateral Transaction Loss	55500-0022	887,540.34												
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	53,430.16												
Real Time Distribution of Losses	55500-0041	(751,882.03)												
Real Time Financial Bilateral Transaction Loss	55500-0038													
Subtotal		2,533,833.13	(86,645)	372,841.78	(86,645)	(485,695.59)	86,645	-	86,645	-	55,068	-	55,068	-
Virtual Energy														
Day Ahead Virtual Energy	55500-0030													
Real Time Virtual Energy	55500-0049													
Subtotal		-	(86,645)	-	(86,645)	-	86,645	-	86,645	-	55,068	-	55,068	-
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020	143,549.51												
Real Time Market Administration (Schedule 17)	55500-0036	16,316.84												
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,014.26												
Subtotal		162,880.61	(86,645)	-	(86,645)	(25,120.02)	86,645	-	86,645	-	55,068	-	55,068	-
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	5,920,713.31												
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	177,601.30												
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	264,095.41												
Real Time Financial Bilateral Transaction Congestion	55500-0037													
Auction Revenue Rights Transaction Amount	55500-0058	(525,629.64)												
Financial Transmission Rights Annual Transaction Amount	55500-0059	504,968.95												
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	31,914.56												
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(214,957.90)												
Financial Transmission Rights Hourly Allocation	55500-0032	(1,985,238.71)												
Financial Transmission Rights Monthly Allocation	55500-0033	(23,286.33)												
Financial Transmission Rights Yearly Allocation	55500-0035													
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(130,148.86)												
FTR Guarantee Uplift Amount	55500-0055	149,166.86												
Financial Transmission Rights Monthly Transaction Amount	55500-0056	176,348.73												
Financial Transmission Rights Transaction	55500-0034													
Subtotal		4,345,547.67	(86,645)	1,427,762.48	(86,645)	(1,066,907.82)	86,645	-	86,645	-	55,068	-	55,068	-
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	48,885.04												
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(26,896.45)												
Real Time Price Volatility Make Whole Payment	55500-0057	(16,632.64)												
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	142,486.54												
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	19,372.27												
Subtotal		167,214.76	(86,645)	21,585.12	(86,645)	(31,350.97)	86,645	-	86,645	-	55,068	-	55,068	-
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042	(5,993.36)												
Real Time Net Inadvertent Distribution	55500-0044	(23,693.40)												
Real Time Revenue Neutrality Uplift Amount	55500-0045	406,642.49												
Real Time Uninstructed Deviation	55500-0048													
Demand Response Allocation Uplift Amount	55500-0077	106,441.55												
Day Ahead Ramp Capability Amount	55500-0079	(497.67)												
Real Time Ramp Capability Amount	55500-0080	(3,436.99)												
Real Time Schedule 49 Cost Distribution Amount	55500-0081	18,891.13												
Subtotal		498,353.75	(86,645)	16,672.12	(86,645)	(79,138.44)	86,645	-	86,645	-	55,068	-	55,068	-
Grandfathered Charge Types														
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023													
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024													
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025													
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026													
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040													
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039													
Subtotal		-	(86,645)	-	(86,645)	-	86,645	-	86,645	-	55,068	-	55,068	-
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062	(36,434.32)												
Day Ahead Spinning Reserve Amount	55500-0063	(79,210.96)												
Day Ahead Supplemental Reserve Amount	55500-0064	(170.93)												
Contingency Reserve Deployment Failure Charge Amount	55500-0065													
Net Regulation Adjustment Amount	55500-0068	1,832.71												
Real Time Regulation Amount	55500-0070	5,013.64												
Regulation Reserve Cost Distribution Amount	55500-0071	53,499.55												
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	14,719.86												
Real Time Spinning Reserve Amount	55500-0072	5,798.50												
Spinning Reserve Cost Distribution Amount	55500-0073	71,430.25												
Real Time Supplemental Reserve Amount	55500-0074	(1,134.62)												
Supplemental Reserve Cost Distribution Amount	55500-0075	14,390.97												
Day-Ahead Short-Term Reserve Amount	55500-0082													
Real-Time Short-Term Reserve Amount	55500-0083													
Short-Term Reserve Cost Distribution Amount	55500-0084													
Short-Term Reserve Deployment Failure Charge Amount	55500-0085													
Subtotal		49,734.65	(86,645)	57,993.35	(86,645)	(24,796.70)	86,645	-	86,645	-	55,068	-	55,068	-
Grand Total		13,901,520.88	(86,645)	1,896,854.85	(86,645)	(1,713,009.54)	86,645	-	86,645	-	55,068	-	55,068	-

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	October 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	19,119,084.33 (12,138,498.63)								
Day Ahead Non-Asset Energy	55500-0027									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	612,856.77 (139.18)								
Excessive Energy Amount	55500-0066	(1,407,274.85)								
Non-Excessive Energy Amount	55500-0069	(42,072.13)								
Real Time Non-Asset Energy	55500-0043									
Subtotal		6,143,956.31	261,376					240,650		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,344,744.66		1,043,096.56		-				
Day Ahead Financial Bilateral Transaction Loss	55500-0022	887,540.34		398,295.63		-				
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	53,430.16		23,769.25		-				
Real Time Distribution of Losses	55500-0041	(751,882.03)		-		(598,406.39)				
Financial Bilateral Transaction Loss	55500-0038	-		-		-				
Subtotal		2,533,833.13	261,376	1,465,161.44	261,376	(598,406.39)		240,650	240,650	
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	261,376	-	261,376	-		240,650	240,650	-
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	143,549.51		64,419.77		-				
Real Time Market Administration (Schedule 17)	55500-0036	16,316.84		7,322.40		-				
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,014.26		4,035.52		-				
Subtotal		162,880.61	261,376	75,777.69	261,376	-		240,650	240,650	-
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	5,920,713.31		2,633,922.49		-				
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	177,601.30		79,008.73		-				
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	264,095.41		118,516.36		-				
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-				
Auction Revenue Rights Transaction Amount	55500-0058	(525,629.64)		-		(418,337.08)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	504,968.95		226,611.59		-				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	31,914.56		14,322.09		-				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(214,957.90)		-		(171,080.27)				
Financial Transmission Rights Hourly Allocation	55500-0032	(1,985,238.71)		-		(1,580,007.87)				
Financial Transmission Rights Monthly Allocation	55500-0033	(23,286.33)		-		(18,533.08)				
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(130,148.86)		-		(103,582.62)				
FTR Guarantee Uplift Amount	55500-0055	149,166.86		66,940.63		-				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	176,348.73		79,138.86		-				
Financial Transmission Rights Transaction	55500-0034	-		-		-				
Subtotal		4,345,547.67	261,376	3,218,460.74	261,376	(2,291,540.91)		240,650	240,650	-
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	48,885.04		21,937.82		-				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(26,896.45)		-		(21,406.29)				
Real Time Price Volatility Make Whole Payment	55500-0057	(16,632.64)		-		(13,237.55)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	142,486.54		63,942.75		-				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	19,372.27		8,693.57		-				
Subtotal		167,214.76	261,376	94,574.13	261,376	(34,643.85)		240,650	240,650	-
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	(5,993.36)		-		(4,769.98)				
Real Time Net Inadvertent Distribution	55500-0044	(23,693.40)		-		(18,857.06)				
Real Time Revenue Neutrality Uplift Amount	55500-0045	406,642.49		182,486.27		-				
Real Time Uninstructed Deviation	55500-0048	-		-		-				
Demand Response Allocation Uplift Amount	55500-0077	106,441.55		47,767.07		-				
Day Ahead Ramp Capability Amount	55500-0079	(497.67)		-		(744.45)				
Real Time Ramp Capability Amount	55500-0080	(3,436.99)		-		(2,735.42)				
Real Time Schedule 49 Cost Distribution Amount	55500-0081	18,891.13		8,477.65		-				
Subtotal		498,353.75	261,376	238,730.99	261,376	(27,106.92)		240,650	240,650	-
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-				
Subtotal		-	261,376	-	261,376	-		240,650	240,650	-
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(36,434.32)		-		(28,997.27)				
Day Ahead Spinning Reserve Amount	55500-0063	(79,210.96)		-		(63,042.26)				
Day Ahead Supplemental Reserve Amount	55500-0064	(170.93)		-		(136.04)				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-				
Net Regulation Adjustment Amount	55500-0068	1,832.71		822.45		-				
Real Time Regulation Amount	55500-0070	5,013.64		2,249.94		-				
Regulation Reserve Cost Distribution Amount	55500-0071	53,499.55		24,008.64		-				
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	14,719.86		6,605.73		-				
Real Time Spinning Reserve Amount	55500-0072	5,798.50		2,602.15		-				
Spinning Reserve Cost Distribution Amount	55500-0073	71,430.25		32,055.28		-				
Real Time Supplemental Reserve Amount	55500-0074	(1,134.62)		-		(903.02)				
Supplemental Reserve Cost Distribution Amount	55500-0075	14,390.97		6,458.14		-				
Day-Ahead Short-Term Reserve Amount	55500-0082	-		-		-				
Real-Time Short-Term Reserve Amount	55500-0083	-		-		-				
Short-Term Reserve Cost Distribution Amount	55500-0084	-		-		-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-				
Subtotal		49,734.65	261,376	74,802.34	261,376	(93,078.60)		240,650	240,650	-
Grand Total		13,901,520.88	261,376	5,167,507.33	261,376	(3,044,776.66)		240,650	240,650	-

MINNESOTA POWER												
MISO MONTHLY ALLOCATION												
	Account Number	November 2021	FPE Retail				FAC Resale				Subtotal FPE and FAC Cost/(Revenue)	
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		
Day Ahead and Real Time Energy												
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	10,916,443.36									
5	Day Ahead Non-Asset Energy	55500-0027	(9,868,868.34)								-	
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	582,038.72								-	
	Excessive Energy Amount	55500-0066	(1,186.96)								-	
	Non-Excessive Energy Amount	55500-0069	(346,322.15)								-	
22	Real Time Non-Asset Energy	55500-0043	(802,641.74)								-	
Subtotal			479,462.89	643,661	3,175,282.99			126,195	604,815.81		3,780,098.80	
Day Ahead and Real Time Energy Loss												
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,540,758.25								1,771,805.68	
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	1,036,793.40		1,488,316.77				283,488.91		725,755.38	
	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(90,271.47)								(62,951.09)	
14	Real Time Distribution of Losses	55500-0041	(689,315.62)								(482,520.93)	
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-								-	
Subtotal			2,797,964.57	643,661	2,097,951.29	643,661	(458,196.50)	126,195	399,609.77	126,195	(87,275.52)	1,952,089.03
Virtual Energy												
12	Day Ahead Virtual Energy	55500-0030	-								-	
27	Real Time Virtual Energy	55500-0049	-								-	
Subtotal			-	643,661	-	643,661	-	126,195	-	126,195	-	-
Schedule 16 & 17 1/												
4	Day Ahead Market Administration (Schedule 17)	55500-0020	166,524.06		97,916.15				18,650.69		116,566.84	
19	Real Time Market Administration (Schedule 17)	55500-0036	16,139.00		9,489.73				1,807.57		11,297.30	
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,440.83		-				385.37		385.37	
Subtotal			186,103.89	643,661	107,405.88	643,661	-	126,195	20,843.64	126,195	-	128,249.51
Congestion, FTRs & ARRs												
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	4,313,172.75		2,526,555.74				481,248.71		3,007,804.45	
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(26,790.79)							(2,989.22)	(18,682.64)	
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	4,220,927.07		2,481,905.12				472,743.83		2,954,648.95	
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-								-	
	Auction Revenue Rights Transaction Amount	55500-0058	(525,629.64)							(58,870.52)	(367,940.75)	
	Financial Transmission Rights Annual Transaction Amount	55500-0059	504,968.95		296,921.74				56,556.52		353,478.27	
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	31,914.56		18,765.76				3,574.43		22,340.19	
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(214,958.00)							(24,075.30)	(150,470.60)	
28	Financial Transmission Rights Hourly Allocation	55500-0032	1,503,003.24		883,765.91				168,336.36		1,052,102.27	
30	Financial Transmission Rights Monthly Allocation	55500-0033	(50,877.07)							(5,698.23)	(35,613.95)	
32	Financial Transmission Rights Yearly Allocation	55500-0035	-								-	
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	12,295.32		7,229.65				1,377.08		8,606.72	
	FTR Guarantee Uplift Amount	55500-0055	(17,322.77)							(1,940.15)	(12,125.94)	
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	(74,296.07)							(8,321.16)	(52,007.25)	
31	Financial Transmission Rights Transaction	55500-0034	-								-	
Subtotal			9,676,407.56	643,661	6,215,143.91	643,661	(534,946.54)	126,195	1,183,836.94	126,195	(101,894.58)	6,762,139.72
RSG & Make Whole Payments												
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	57,183.55		33,623.93				6,404.56		40,028.49	
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(5,280.18)							(591.38)	(3,696.13)	
	Real Time Price Volatility Make Whole Payment	55500-0057	(551.17)							(61.73)	(385.82)	
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	72,303.60		42,514.52				8,098.00		50,612.52	
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	7,965.56		4,683.75				892.14		5,575.89	
Subtotal			131,621.36	643,661	80,822.19	643,661	(3,428.83)	126,195	15,394.70	126,195	(653.11)	92,134.95
RNU & Misc Charges												
20	Real Time Miscellaneous	55500-0042	0.01		0.01				0.00		0.01	
21	Real Time Net Inadvertent Distribution	55500-0044	(28,902.77)							(3,237.11)	(20,231.94)	
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	1,015,378.62		597,042.63				113,722.41		710,765.03	
26	Real Time Uninstructed Deviation	55500-0048	-								-	
27	Demand Response Allocation Uplift Amount	55500-0077	71,268.05		41,905.61				7,982.02		49,887.64	
33	Day Ahead Ramp Capability Amount	55500-0079	(25.00)								-	
34	Real Time Ramp Capability Amount	55500-0080	(193.63)							(21.69)	(135.54)	
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	18,518.06		10,888.62				2,074.02		12,962.64	
Subtotal			1,076,043.34	643,661	649,836.87	643,661	(17,108.68)	126,195	123,778.45	126,195	(3,258.80)	753,247.84
Grandfathered Charge Types												
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-								-	
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-								-	
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-								-	
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-								-	
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-								-	
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-								-	
Subtotal			-	643,661	-	643,661	-	126,195	-	126,195	-	-
ASM Charge Types (12 Other)												
	Day Ahead Regulation Amount	55500-0062	(71,384.94)							(7,995.11)	(49,969.46)	
	Day Ahead Spinning Reserve Amount	55500-0063	(34,443.51)							(3,857.67)	(24,110.46)	
	Day Ahead Supplemental Reserve Amount	55500-0064	(143.18)							(16.04)	(100.23)	
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-								-	
	Net Regulation Adjustment Amount	55500-0068	3,493.80		2,054.35				391.31		2,445.66	
	Real Time Regulation Amount	55500-0070	22,119.36		13,006.18				2,477.37		15,483.55	
	Regulation Reserve Cost Distribution Amount	55500-0071	47,800.04		28,106.42				5,353.60		33,460.03	
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	30,428.83		17,892.15				3,408.03		21,300.18	
	Real Time Spinning Reserve Amount	55500-0072	8,621.23		5,069.28				965.58		6,034.86	
	Spinning Reserve Cost Distribution Amount	55500-0073	39,810.06		23,408.32				4,458.73		27,867.04	
	Real Time Supplemental Reserve Amount	55500-0074	304.80		179.22				34.14		213.36	
	Supplemental Reserve Cost Distribution Amount	55500-0075	5,115.55		3,007.94				572.94		3,580.89	
	Day-Ahead Short-Term Reserve Amount	55500-0082	-								-	
	Real-Time Short-Term Reserve Amount	55500-0083	-								-	
	Short-Term Reserve Cost Distribution Amount	55500-0084	-								-	
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-								-	
Subtotal			51,722.04	643,661	92,723.88	643,661	(62,311.32)	126,195	17,661.69	126,195	(11,868.82)	36,205.43
Grand Total			14,399,325.64	643,661	12,419,167.01	643,661	(1,075,991.88)	126,195	2,365,940.99	126,195	(204,950.83)	13,504,165.29

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

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

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

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

MINNESOTA POWER

	Account Number	November 2021	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy														
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	10,916,443.36 (9,868,868.34)												
Day Ahead Non-Asset Energy	55500-0027													
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	582,038.72 (1,186.96)												
Excessive Energy Amount	55500-0066	(346,322.15)												
Non-Excessive Energy Amount	55500-0069	(802,641.74)												
Real Time Non-Asset Energy	55500-0043													
Subtotal		479,462.89	(97,779)			97,779							43,058	
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,540,758.25			(380,927.21)									
Day Ahead Financial Bilateral Transaction Loss	55500-0022	1,036,793.40			(154,083.42)									
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(90,271.47)		44,719.09	-									
Real Time Distribution of Losses	55500-0041	(689,315.62)		341,476.30	-									
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-	-									
Subtotal		2,797,964.57	(97,779)	386,195.38	(97,779)	(535,010.64)	97,779	-	97,779	-	43,058	-	43,058	-
Virtual Energy														
Day Ahead Virtual Energy	55500-0030	-												
Real Time Virtual Energy	55500-0049	-												
Subtotal		-	(97,779)	-	(97,779)	-	97,779	-	97,779	-	43,058	-	43,058	-
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020	166,524.06			(24,748.03)									
Real Time Market Administration (Schedule 17)	55500-0036	16,139.00			(2,398.50)									
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,440.83			(1,513.63)									
Subtotal		186,103.89	(97,779)	-	(97,779)	(28,660.16)	97,779	-	97,779	-	43,058	-	43,058	-
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	4,313,172.75			(646,659.27)									
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(26,790.79)		13,271.74	-									
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	4,220,927.07			(627,294.60)									
Real Time Financial Bilateral Transaction Congestion	55500-0037	-			-									
Auction Revenue Rights Transaction Amount	55500-0058	(525,629.64)		260,388.79	-									
Financial Transmission Rights Annual Transaction Amount	55500-0059	504,968.95			(75,046.14)									
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	31,914.56			(4,742.99)									
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(214,958.00)		106,486.87	-									
Financial Transmission Rights Hourly Allocation	55500-0032	1,503,003.24			(223,369.37)									
Financial Transmission Rights Monthly Allocation	55500-0033	(50,877.07)		25,203.71	-									
Financial Transmission Rights Yearly Allocation	55500-0035	-			-									
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	12,295.32			(1,827.27)									
FTR Guarantee Uplift Amount	55500-0055	(17,322.77)		8,581.43	-									
Financial Transmission Rights Monthly Transaction Amount	55500-0056	(74,296.07)		36,805.12	-									
Financial Transmission Rights Transaction	55500-0034	-			-									
Subtotal		9,676,407.56	(97,779)	450,737.67	(97,779)	(1,578,939.64)	97,779	-	97,779	-	43,058	-	43,058	-
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	57,183.55			(8,498.35)									
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(5,280.18)		2,615.72	-									
Real Time Price Volatility Make Whole Payment	55500-0057	(551.17)		273.04	-									
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	72,303.60			(10,745.43)									
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	7,965.56			(1,183.80)									
Subtotal		131,621.36	(97,779)	2,888.76	(97,779)	(20,427.58)	97,779	-	97,779	-	43,058	-	43,058	-
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042	0.01			(0.00)									
Real Time Net Inadvertent Distribution	55500-0044	(28,902.77)		14,317.99	-									
Real Time Revenue Neutrality Uplift Amount	55500-0045	1,015,378.62			(150,900.86)									
Real Time Uninstructed Deviation	55500-0048	-			-									
Demand Response Allocation Uplift Amount	55500-0077	71,268.05			(10,591.53)									
Day Ahead Ramp Capability Amount	55500-0079	(25.00)		12.38	-									
Real Time Ramp Capability Amount	55500-0080	(193.63)		95.92	-									
Real Time Schedule 49 Cost Distribution Amount	55500-0081	18,518.06			(2,752.07)									
Subtotal		1,076,043.34	(97,779)	14,426.29	(97,779)	(164,244.46)	97,779	-	97,779	-	43,058	-	43,058	-
Grandfathered Charge Types														
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-			-									
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-			-									
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-			-									
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-			-									
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-			-									
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-			-									
Subtotal		-	(97,779)	-	(97,779)	-	97,779	-	97,779	-	43,058	-	43,058	-
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062	(71,384.94)		35,363.00	-									
Day Ahead Spinning Reserve Amount	55500-0063	(34,443.51)		17,062.78	-									
Day Ahead Supplemental Reserve Amount	55500-0064	(143.18)		70.93	-									
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-			-									
Net Regulation Adjustment Amount	55500-0068	3,493.80			(519.23)									
Real Time Regulation Amount	55500-0070	22,119.36			(3,287.28)									
Regulation Reserve Cost Distribution Amount	55500-0071	47,800.04			(7,103.82)									
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	30,428.83			(4,522.19)									
Real Time Spinning Reserve Amount	55500-0072	8,621.23			(1,281.25)									
Spinning Reserve Cost Distribution Amount	55500-0073	39,810.06			(5,916.39)									
Real Time Supplemental Reserve Amount	55500-0074	304.80			(45.30)									
Supplemental Reserve Cost Distribution Amount	55500-0075	5,115.55			(760.25)									
Day-Ahead Short-Term Reserve Amount	55500-0082	-			-									
Real-Time Short-Term Reserve Amount	55500-0083	-			-									
Short-Term Reserve Cost Distribution Amount	55500-0084	-			-									
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-			-									
Subtotal		51,722.04	(97,779)	52,496.71	(97,779)	(23,435.70)	97,779	-	97,779	-	43,058	-	43,058	-
Grand Total		14,399,325.64	(97,779)	906,744.82	(97,779)	(2,350,718.18)	97,779	-	97,779	-	43,058	-	43,058	-

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	November 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	10,916,443.36 (9,868,868.34)								
Day Ahead Non-Asset Energy	55500-0027									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	582,038.72 (1,186.96)								
Excessive Energy Amount	55500-0066	(346,322.15)								
Non-Excessive Energy Amount	55500-0069	(802,641.74)								
Real Time Non-Asset Energy	55500-0043									
Subtotal		479,462.89	295,159					205,561		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,540,758.25 1,036,793.40		1,149,879.79 465,121.44		-				
Day Ahead Financial Bilateral Transaction Loss	55500-0022									
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(90,271.47)				(72,039.47)				
Real Time Distribution of Losses	55500-0041	(689,315.62)				(548,270.98)				
Real Time Financial Bilateral Transaction Loss	55500-0038									
Subtotal		2,797,964.57	295,159	1,615,001.23	295,159	(620,310.45)		205,561	205,561	
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	295,159	-	295,159	-		205,561	205,561	
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	166,524.06		74,705.25		-				
Real Time Market Administration (Schedule 17)	55500-0036	16,139.00		7,240.20		-				
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,440.83		4,569.08		-				
Subtotal		186,103.89	295,159	86,514.54	295,159	-		205,561	205,561	
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	4,313,172.75		1,952,027.57		-				
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(26,790.79)				(21,379.89)				
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	4,220,927.07		1,893,572.72		-				
Real Time Financial Bilateral Transaction Congestion	55500-0037	-				-				
Auction Revenue Rights Transaction Amount	55500-0058	(525,629.64)				(418,077.69)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	504,968.95		226,536.83		-				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	31,914.56		14,317.36		-				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(214,958.00)				(170,974.27)				
Financial Transmission Rights Hourly Allocation	55500-0032	1,503,003.24		674,270.34		-				
Financial Transmission Rights Monthly Allocation	55500-0033	(50,877.07)				(40,466.83)				
Financial Transmission Rights Yearly Allocation	55500-0035	-				-				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	12,295.32		5,515.87		-				
FTR Guarantee Uplift Amount	55500-0055	(17,322.77)				(13,778.26)				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	(74,296.07)				(59,093.94)				
Financial Transmission Rights Transaction	55500-0034	-				-				
Subtotal		9,676,407.56	295,159	4,766,240.69	295,159	(723,770.89)		205,561	205,561	
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	57,183.55		25,653.42		-				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(5,280.18)				(4,199.77)				
Real Time Price Volatility Make Whole Payment	55500-0057	(551.17)				(438.39)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	72,303.60		32,436.51		-				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	7,965.56		3,573.47		-				
Subtotal		131,621.36	295,159	61,663.40	295,159	(4,638.17)		205,561	205,561	
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	0.01		0.00		-				
Real Time Net Inadvertent Distribution	55500-0044	(28,902.77)				(22,988.82)				
Real Time Revenue Neutrality Uplift Amount	55500-0045	1,015,378.62		455,514.45		-				
Real Time Uninstructed Deviation	55500-0048	-				-				
Demand Response Allocation Uplift Amount	55500-0077	71,268.05		31,971.94		-				
Day Ahead Ramp Capability Amount	55500-0079	(25.00)				(37.38)				
Real Time Ramp Capability Amount	55500-0080	(193.63)				(154.01)				
Real Time Schedule 49 Cost Distribution Amount	55500-0081	18,518.06		8,307.49		-				
Subtotal		1,076,043.34	295,159	495,793.88	295,159	(23,180.21)		205,561	205,561	
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-				-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-				-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-				-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-				-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-				-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-				-				
Subtotal		-	295,159	-	295,159	-		205,561	205,561	
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(71,384.94)				(56,778.48)				
Day Ahead Spinning Reserve Amount	55500-0063	(34,443.51)				(27,395.84)				
Day Ahead Supplemental Reserve Amount	55500-0064	(143.18)				(113.88)				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-				-				
Net Regulation Adjustment Amount	55500-0068	3,493.80		1,567.37		-				
Real Time Regulation Amount	55500-0070	22,119.36		9,923.08		-				
Regulation Reserve Cost Distribution Amount	55500-0071	47,800.04		21,443.83		-				
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	30,428.83		13,650.84		-				
Real Time Spinning Reserve Amount	55500-0072	8,621.23		3,867.62		-				
Spinning Reserve Cost Distribution Amount	55500-0073	39,810.06		17,859.40		-				
Real Time Supplemental Reserve Amount	55500-0074	304.80		136.74		-				
Supplemental Reserve Cost Distribution Amount	55500-0075	5,115.55		2,294.91		-				
Day-Ahead Short-Term Reserve Amount	55500-0082	-				-				
Real-Time Short-Term Reserve Amount	55500-0083	-				-				
Short-Term Reserve Cost Distribution Amount	55500-0084	-				-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-				-				
Subtotal		51,722.04	295,159	70,743.80	295,159	(84,288.20)		205,561	205,561	
Grand Total		14,399,325.64	295,159	7,095,957.54	295,159	(1,456,187.91)		205,561	205,561	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	December 2021	FPE Retail				FAC Resale				Subtotal FPE and FAC Cost/(Revenue)	
			Mwh		Cost		Mwh		Revenue			
Day Ahead and Real Time Energy												
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	3,065,199.74									-
5	Day Ahead Non-Asset Energy	55500-0027	395,318.68									-
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	234,877.64									-
	Excessive Energy Amount	55500-0066	(748.29)									-
	Non-Excessive Energy Amount	55500-0069	1,875,604.39									-
22	Real Time Non-Asset Energy	55500-0043	351,788.81									-
	Subtotal		5,922,040.97	674,886	3,886,602.04	674,886	(500,879.02)	137,393	796,051.02	137,393	(102,589.68)	4,682,653.06
Day Ahead and Real Time Energy Loss												
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,374,578.90									1,677,234.18
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	821,045.22		1,392,104.37				285,129.81			582,942.11
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(118,802.08)			(69,648.09)					(14,265.27)	(83,913.36)
14	Real Time Distribution of Losses	55500-0041	(731,768.08)			(431,230.93)					(88,324.41)	(519,555.34)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-									-
	Subtotal		2,345,053.96	674,886	1,875,946.32	674,886	(500,879.02)	137,393	384,229.97	137,393	(102,589.68)	1,656,707.59
Virtual Energy												
12	Day Ahead Virtual Energy	55500-0030	-									-
27	Real Time Virtual Energy	55500-0049	-									-
	Subtotal		-	674,886	-	674,886	-	137,393	-	137,393	-	-
Schedule 16 & 17 1/												
4	Day Ahead Market Administration (Schedule 17)	55500-0020	178,187.60		105,005.95				21,507.24			126,513.20
19	Real Time Market Administration (Schedule 17)	55500-0036	15,946.71		9,397.40				1,924.77			11,322.16
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,876.05		-				467.84			467.84
	Subtotal		198,010.36	674,886	114,403.35	674,886	-	137,393	23,899.85	137,393	-	138,303.20
Congestion, FTRs & ARRs												
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	2,643,589.42		1,549,812.64				317,431.50			1,867,244.14
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(88,267.69)			(51,747.21)				(10,598.83)		(62,346.04)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	748,996.68		441,383.74				90,403.90			531,787.64
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-									-
	Auction Revenue Rights Transaction Amount	55500-0058	(269,512.71)			(158,823.84)				(32,530.18)		(191,354.02)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	262,740.43		154,832.94				31,712.77			186,545.71
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	12,438.61		7,330.07				1,501.34			8,831.41
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(130,147.74)			(76,696.06)				(15,708.83)		(92,404.90)
28	Financial Transmission Rights Hourly Allocation	55500-0032	(983,701.19)			(579,695.11)				(118,732.73)		(698,427.84)
30	Financial Transmission Rights Monthly Allocation	55500-0033	(21,355.94)			(12,585.06)				(2,577.66)		(15,162.72)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-									-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(20,045.88)			(11,813.04)				(2,419.54)		(14,232.57)
	FTR Guarantee Uplift Amount	55500-0055	32,784.21		19,319.73				3,957.05			23,276.79
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	71,175.10		41,943.49				8,590.83			50,534.32
31	Financial Transmission Rights Transaction	55500-0034	-									-
	Subtotal		2,258,693.31	674,886	2,214,622.61	674,886	(891,360.32)	137,393	453,597.40	137,393	(182,567.78)	1,594,291.92
RSG & Make Whole Payments												
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	21,826.51		12,862.36				2,634.46			15,496.82
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(7,736.93)			(4,559.37)				(933.85)		(5,493.22)
	Real Time Price Volatility Make Whole Payment	55500-0057	(636.78)			(375.25)				(76.86)		(452.11)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	18,519.79		10,913.71				2,235.34			13,149.05
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(614.27)			(361.99)				(74.14)		(436.13)
	Subtotal		31,358.32	674,886	23,776.07	674,886	(5,296.62)	137,393	4,869.80	137,393	(1,084.85)	22,264.41
RNU & Misc Charges												
20	Real Time Miscellaneous	55500-0042	2,021.29		1,191.15				243.97			1,435.12
21	Real Time Net Inadvertent Distribution	55500-0044	(26,254.25)			(15,471.63)				(3,168.89)		(18,640.52)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	133,525.65		78,686.67				16,116.55			94,803.21
26	Real Time Uninstructed Deviation	55500-0048	-									-
27	Demand Response Allocation Uplift Amount	55500-0077	26,180.94		15,428.43				3,160.04			18,588.47
33	Day Ahead Ramp Capability Amount	55500-0079	(2.00)									(2.00)
34	Real Time Ramp Capability Amount	55500-0080	(296.64)			(174.81)				(35.80)		(210.61)
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	14,783.39		8,711.85				1,784.36			10,496.21
	Subtotal		149,958.38	674,886	104,018.09	674,886	(15,646.44)	137,393	21,304.91	137,393	(3,204.69)	106,471.87
Grandfathered Charge Types												
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-									-
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-									-
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-									-
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-									-
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-									-
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-									-
	Subtotal		-	674,886	-	674,886	-	137,393	-	137,393	-	-
ASM Charge Types (12 Other)												
	Day Ahead Regulation Amount	55500-0062	(102,792.10)			(60,575.38)				(12,407.01)		(72,982.39)
	Day Ahead Spinning Reserve Amount	55500-0063	(42,389.07)			(24,979.88)				(5,116.36)		(30,096.24)
	Day Ahead Supplemental Reserve Amount	55500-0064	-									-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-									-
	Net Regulation Adjustment Amount	55500-0068	6,187.09		3,646.05				746.78			4,392.83
	Real Time Regulation Amount	55500-0070	32,700.70		19,270.52				3,946.97			23,217.50
	Regulation Reserve Cost Distribution Amount	55500-0071	35,911.84		21,162.85				4,334.56			25,497.41
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	38,775.89		22,850.63				4,680.25			27,530.88
	Real Time Spinning Reserve Amount	55500-0072	(987.86)			(582.15)				(119.23)		(701.38)
	Spinning Reserve Cost Distribution Amount	55500-0073	30,851.41		18,180.74				3,723.77			21,904.50
	Real Time Supplemental Reserve Amount	55500-0074	(617.95)			(364.16)				(74.59)		(438.74)
	Supplemental Reserve Cost Distribution Amount	55500-0075	5,156.60		3,038.78				622.40			3,661.19
	Day-Ahead Short-Term Reserve Amount	55500-0082	(16,396.77)			(9,662.62)				(1,979.09)		(11,641.71)
	Real-Time Short-Term Reserve Amount	55500-0083	3,696.07		2,178.09				446.12			2,624.21
	Short-Term Reserve Cost Distribution Amount	55500-0084	22,343.78		13,167.19				2,696.89			15,864.08
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-									-
	Subtotal		12,439.63	674,886	103,494.86	674,886	(96,164.18)	137,393	21,197.74	137,393	(19,696.28)	8,832.14
	Grand Total		10,917,554.93	674,886	8,322,863.35	674,886	(1,509,346.58)	137,393	1,705,150.69	137,393	(309,143.27)	8,209,524.19

1/ All Administration Charges reflected in the Retail column are now in the base rates (not recovered in the FPE)

2/ Accounts 55500-0051 through 55500-0053 are not recovered through the FPE

3/ Accounts 55500-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity

NOTE:

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

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

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

MINNESOTA POWER

MISO MONTHLY ALLOCATION	Account Number	December 2021	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy														
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	3,065,199.74												
Day Ahead Non-Asset Energy	55500-0027	395,318.68												
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	234,877.64												
Excessive Energy Amount	55500-0066	(748.29)												
Non-Excessive Energy Amount	55500-0069	1,875,604.39												
Real Time Non-Asset Energy	55500-0043	351,788.81												
Subtotal		5,922,040.97	(70,545)					70,545					46,709	
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,374,578.90			(246,853.88)									
Day Ahead Financial Bilateral Transaction Loss	55500-0022	821,045.22			(84,286.40)									
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(118,802.08)		42,054.89	-									
Real Time Distribution of Losses	55500-0041	(731,768.08)		259,039.45	-									
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-	-									
Subtotal		2,345,053.96	(70,545)	301,094.33	(70,545)	(331,140.28)		70,545	-	70,545	-		46,709	-
Virtual Energy														
Day Ahead Virtual Energy	55500-0030	-												
Real Time Virtual Energy	55500-0049	-												
Subtotal		-	(70,545)	-	(70,545)	-		70,545	-	70,545	-		46,709	-
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020	178,187.60			(18,292.28)									
Real Time Market Administration (Schedule 17)	55500-0036	15,946.71			(1,637.05)									
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,876.05			(1,206.48)									
Subtotal		198,010.36	(70,545)	-	(70,545)	(21,135.81)		70,545	-	70,545	-		46,709	-
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	2,643,589.42			(274,819.38)									
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(88,267.69)		31,245.98	-									
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	748,996.68			(76,890.08)									
Real Time Financial Bilateral Transaction Congestion	55500-0037	-			-									
Auction Revenue Rights Transaction Amount	55500-0058	(269,512.71)		95,405.12	-									
Financial Transmission Rights Annual Transaction Amount	55500-0059	262,740.43			(26,972.26)									
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	12,438.61			(1,276.92)									
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(130,147.74)		46,071.15	-									
Financial Transmission Rights Hourly Allocation	55500-0032	(983,701.19)		348,221.55	-									
Financial Transmission Rights Monthly Allocation	55500-0033	(21,355.94)		7,559.81	-									
Financial Transmission Rights Yearly Allocation	55500-0035	-		-	-									
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(20,045.88)		7,096.06	-									
FTR Guarantee Uplift Amount	55500-0055	32,784.21		-	(3,365.54)									
Financial Transmission Rights Monthly Transaction Amount	55500-0056	71,175.10		-	(7,306.65)									
Financial Transmission Rights Transaction	55500-0034	-			-									
Subtotal		2,258,693.31	(70,545)	535,599.68	(70,545)	(390,630.84)		70,545	-	70,545	-		46,709	-
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	21,826.51			(2,240.65)									
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(7,736.93)		2,738.80	-									
Real Time Price Volatility Make Whole Payment	55500-0057	(636.78)		225.41	-									
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	18,519.79			(1,901.19)									
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(614.27)		217.45	-									
Subtotal		31,358.32	(70,545)	3,181.67	(70,545)	(4,141.85)		70,545	-	70,545	-		46,709	-
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042	2,021.29			(207.50)									
Real Time Net Inadvertent Distribution	55500-0044	(26,254.25)		9,293.77	-									
Real Time Revenue Neutrality Uplift Amount	55500-0045	133,525.65			(13,707.40)									
Real Time Uninstructed Deviation	55500-0048	-			-									
Demand Response Allocation Uplift Amount	55500-0077	26,180.94			(2,687.67)									
Day Ahead Ramp Capability Amount	55500-0079	(2.00)		0.71	-									
Real Time Ramp Capability Amount	55500-0080	(296.64)		105.01	-									
Real Time Schedule 49 Cost Distribution Amount	55500-0081	14,783.39			(1,517.63)									
Subtotal		149,958.38	(70,545)	9,399.49	(70,545)	(18,120.20)		70,545	-	70,545	-		46,709	-
Grandfathered Charge Types														
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-			-									
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-			-									
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-			-									
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-			-									
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-			-									
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-			-									
Subtotal		-	(70,545)	-	(70,545)	-		70,545	-	70,545	-		46,709	-
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062	(102,792.10)		36,387.50	-									
Day Ahead Spinning Reserve Amount	55500-0063	(42,389.07)		15,005.36	-									
Day Ahead Supplemental Reserve Amount	55500-0064	-			-									
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-			-									
Net Regulation Adjustment Amount	55500-0068	6,187.09			(635.15)									
Real Time Regulation Amount	55500-0070	32,700.70			(3,356.97)									
Regulation Reserve Cost Distribution Amount	55500-0071	35,911.84			(3,686.62)									
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	38,775.89			(3,980.63)									
Real Time Spinning Reserve Amount	55500-0072	(987.86)		349.69	-									
Spinning Reserve Cost Distribution Amount	55500-0073	30,851.41			(3,167.13)									
Real Time Supplemental Reserve Amount	55500-0074	(617.95)		218.75	-									
Supplemental Reserve Cost Distribution Amount	55500-0075	5,156.60			(529.36)									
Day-Ahead Short-Term Reserve Amount	55500-0082	(16,396.77)		5,804.31	-									
Real-Time Short-Term Reserve Amount	55500-0083	3,696.07			(379.43)									
Short-Term Reserve Cost Distribution Amount	55500-0084	22,343.78			(2,293.76)									
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-			-									
Subtotal		12,439.63	(70,545)	57,765.61	(70,545)	(18,029.05)		70,545	-	70,545	-		46,709	-
Grand Total		10,917,554.93	(70,545)	907,040.78	(70,545)	(783,198.02)		70,545	-	70,545	-		46,709	-

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	December 2021	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	3,065,199.74								
Day Ahead Non-Asset Energy	55500-0027	395,318.68								
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	234,877.64								
Excessive Energy Amount	55500-0066	(748.29)								
Non-Excessive Energy Amount	55500-0069	1,875,604.39								
Real Time Non-Asset Energy	55500-0043	351,788.81								
Subtotal		5,922,040.97	269,831					240,959		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	2,374,578.90		944,198.60		-				
Day Ahead Financial Bilateral Transaction Loss	55500-0022	821,045.22		322,389.52		-				
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(118,802.08)		-		(76,943.60)				
Real Time Distribution of Losses	55500-0041	(731,768.08)		-		(471,252.19)				
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-				
Subtotal		2,345,053.96	269,831	1,266,588.11	269,831	(548,195.79)		240,959	240,959	
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	269,831	-	269,831	-		240,959	240,959	
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	178,187.60		69,966.69		-				
Real Time Market Administration (Schedule 17)	55500-0036	15,946.71		6,261.59		-				
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,876.05		4,614.69		-				
Subtotal		198,010.36	269,831	80,842.97	269,831	-		240,959	240,959	
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	2,643,589.42		1,051,164.66		-				
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(88,267.69)		-		(57,167.63)				
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	748,996.68		294,099.12		-				
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-				
Auction Revenue Rights Transaction Amount	55500-0058	(269,512.71)		-		(173,563.81)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	262,740.43		103,166.99		-				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	12,438.61		4,884.11		-				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(130,147.74)		-		(83,814.00)				
Financial Transmission Rights Hourly Allocation	55500-0032	(983,701.19)		-		(633,494.89)				
Financial Transmission Rights Monthly Allocation	55500-0033	(21,355.94)		-		(13,753.04)				
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(20,045.88)		-		(12,909.37)				
FTR Guarantee Uplift Amount	55500-0055	32,784.21		12,872.96		-				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	71,175.10		27,947.43		-				
Financial Transmission Rights Transaction	55500-0034	-		-		-				
Subtotal		2,258,693.31	269,831	1,494,135.27	269,831	(974,702.74)		240,959	240,959	
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	21,826.51		8,570.34		-				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(7,736.93)		-		(4,982.51)				
Real Time Price Volatility Make Whole Payment	55500-0057	(636.78)		-		(410.08)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	18,519.79		7,271.93		-				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(614.27)		-		(395.58)				
Subtotal		31,358.32	269,831	15,842.27	269,831	(5,788.18)		240,959	240,959	
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	2,021.29		793.67		-				
Real Time Net Inadvertent Distribution	55500-0044	(26,254.25)		-		(16,907.51)				
Real Time Revenue Neutrality Uplift Amount	55500-0045	133,525.65		52,429.84		-				
Real Time Uninstructed Deviation	55500-0048	-		-		-				
Demand Response Allocation Uplift Amount	55500-0077	26,180.94		10,280.14		-				
Day Ahead Ramp Capability Amount	55500-0079	(2.00)		-		(2.71)				
Real Time Ramp Capability Amount	55500-0080	(296.64)		-		(191.03)				
Real Time Schedule 49 Cost Distribution Amount	55500-0081	14,783.39		5,804.81		-				
Subtotal		149,958.38	269,831	69,308.46	269,831	(17,101.25)		240,959	240,959	
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-				
Subtotal		-	269,831	-	269,831	-		240,959	240,959	
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(102,792.10)		-		(66,197.21)				
Day Ahead Spinning Reserve Amount	55500-0063	(42,389.07)		-		(27,298.19)				
Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-				
Net Regulation Adjustment Amount	55500-0068	6,187.09		2,429.41		-				
Real Time Regulation Amount	55500-0070	32,700.70		12,840.17		-				
Regulation Reserve Cost Distribution Amount	55500-0071	35,911.84		14,101.05		-				
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	38,775.89		15,225.64		-				
Real Time Spinning Reserve Amount	55500-0072	(987.86)		-		(636.17)				
Spinning Reserve Cost Distribution Amount	55500-0073	30,851.41		12,114.04		-				
Real Time Supplemental Reserve Amount	55500-0074	(617.95)		-		(397.95)				
Supplemental Reserve Cost Distribution Amount	55500-0075	5,156.60		2,024.78		-				
Day-Ahead Short-Term Reserve Amount	55500-0082	(16,396.77)		-		(10,559.38)				
Real-Time Short-Term Reserve Amount	55500-0083	3,696.07		1,451.29		-				
Short-Term Reserve Cost Distribution Amount	55500-0084	22,343.78		8,773.45		-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-				
Subtotal		12,439.63	269,831	68,959.83	269,831	(105,088.90)		240,959	240,959	
Grand Total		10,917,554.93	269,831	2,995,676.92	269,831	(1,650,876.85)		240,959	240,959	

MINNESOTA POWER

MISO MONTHLY ALLOCATION		Account Number	January 2020 - December 2020	FPE Retail				FAC Resale				Subtotal FAC
				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)
Day Ahead and Real Time Energy												
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	153,200,429.71									-
5	Day Ahead Non-Asset Energy	55500-0027	(86,488,737.34)									-
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	2,616,296.24									-
	Excessive Energy Amount	55500-0065	36,248.99									-
	Non-Excessive Energy Amount	55500-0069	3,316,156.20									-
22	Real Time Non-Asset Energy	55500-0043	(955,555.52)									-
	Subtotal		71,724,838.28	7,801,327	45,375,588	7,801,327		1,393,316	8,060,538			53,436,126.81
Day Ahead and Real Time Energy Loss												
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	20,444,278.56									-
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	5,770,514.24									-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	517,129.30									-
14	Real Time Distribution of Losses	55500-0041	(6,654,861.34)									-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-									-
	Subtotal		20,077,060.76	7,801,327	16,854,488.89	7,801,327	(4,550,654.54)	1,393,316	3,040,348.42	1,393,316	(822,975.30)	14,521,207.46
Virtual Energy												
12	Day Ahead Virtual Energy	55500-0030	-									-
27	Real Time Virtual Energy	55500-0049	-									-
	Subtotal		-	7,801,327	-	7,801,327	-	1,393,316	-	1,393,316	-	-
Schedule 16 & 17 1/												
4	Day Ahead Market Administration (Schedule 17)	55500-0020	1,789,519.73									-
19	Real Time Market Administration (Schedule 17)	55500-0036	184,837.01									-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	40,324.08									-
	Subtotal		2,014,680.82	7,801,327	1,229,443.70	7,801,327	-	1,393,316	224,059.62	1,393,316	-	1,453,503.32
Congestion, FTRs & ARRs												
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	41,325,861.31									-
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	822,001.97									-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	6,451,817.17									-
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-									-
	Auction Revenue Rights Transaction Amount	55500-0058	(3,781,050.20)									-
	Financial Transmission Rights Annual Transaction Amount	55500-0059	4,222,969.60									-
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	204,039.60									-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(1,527,127.46)									-
28	Financial Transmission Rights Hourly Allocation	55500-0032	(6,876,033.52)									-
30	Financial Transmission Rights Monthly Allocation	55500-0033	(266,844.11)									-
32	Financial Transmission Rights Yearly Allocation	55500-0035	(32,948.99)									-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(190,067.70)									-
	FTR Guarantee Uplift Amount	55500-0055	238,672.51									-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	674,767.16									-
31	Financial Transmission Rights Transaction	55500-0034	-									-
	Subtotal		41,266,057.24	7,801,327	36,548,590.15	7,801,327	(11,063,335.15)	1,393,316	6,499,861.68	1,393,316	(1,964,083.87)	30,021,032.82
RSG & Make Whole Payments												
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	403,130.50									-
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(190,298.37)									-
	Real Time Price Volatility Make Whole Payment	55500-0057	(292,136.44)									-
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	1,555,710.34									-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(2,060,059.86)									-
	Subtotal		(583,653.83)	7,801,327	1,236,305.85	7,801,327	(1,586,349.41)	1,393,316	220,797.96	1,393,316	(272,617.55)	(401,863.35)
RNU & Misc Charges												
20	Real Time Miscellaneous	55500-0042	(8,039.94)									-
21	Real Time Net Inadvertent Distribution	55500-0044	(107,675.21)									-
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	3,119,205.34									-
26	Real Time Uninstructed Deviation	55500-0048	-									-
	Demand Response Allocation Uplift Amount	55500-0077	340,082.86									-
33	Day Ahead Ramp Capability Amount	55500-0079	(3,231.42)									-
34	Real Time Ramp Capability Amount	55500-0080	(9,498.07)									-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	185,724.26									-
	Subtotal		3,516,567.82	7,801,327	2,510,030.78	7,801,327	(358,822.07)	1,393,316	446,122.02	1,393,316	(64,118.76)	2,533,211.97
Grandfathered Charge Types												
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-									-
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-									-
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-									-
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-									-
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-									-
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-									-
	Subtotal		-	7,801,327	-	7,801,327	-	1,393,316	-	1,393,316	-	-
ASM Charge Types (12 Other)												
	Day Ahead Regulation Amount	55500-0062	(785,217.29)									-
	Day Ahead Spinning Reserve Amount	55500-0063	(698,972.86)									-
	Day Ahead Supplemental Reserve Amount	55500-0064	(11,128.29)									-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	293.11									-
	Net Regulation Adjustment Amount	55500-0068	9,191.17									-
	Real Time Regulation Amount	55500-0070	135,624.84									-
	Regulation Reserve Cost Distribution Amount	55500-0071	535,894.45									-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	322,406.71									-
	Real Time Spinning Reserve Amount	55500-0072	42,937.06									-
	Spinning Reserve Cost Distribution Amount	55500-0073	521,644.85									-
	Real Time Supplemental Reserve Amount	55500-0074	(6,011.43)									-
	Supplemental Reserve Cost Distribution Amount	55500-0075	164,903.92									-
	Day-Ahead Short-Term Reserve Amount	55500-0082	(16,396.77)									-
	Real-Time Short-Term Reserve Amount	55500-0083	3,696.07									-
	Short-Term Reserve Cost Distribution Amount	55500-0084	22,343.78									-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-									-
	Subtotal		241,209.22	7,801,327	1,152,631.56	7,801,327	(994,982.22)	1,393,316	205,850.97	1,393,316	(177,790.55)	185,709.75
	Grand Total		138,256,760.31	7,801,327	104,907,079.05	7,801,327	(18,554,143.39)	1,393,316	18,697,579.14	1,393,316	(3,301,586.03)	101,748,928.78

1/ All Administration Charges reflected in the Retail column are now in the base cost of fuel (not recovered in the FAC)
2/ Accounts 5551-0051 through 5551-0053 are not recovered through the FAC
3/ Accounts 5551-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity
NOTE:

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

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

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

MINNESOTA POWER

MISO MONTHLY ALLOCATION		January 2020 - December 2020	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
Account Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy														
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	153,200,429.71 (86,488,737.34)												
Day Ahead Non-Asset Energy	55500-0027													
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	2,616,296.24												
Excessive Energy Amount	55500-0066	36,248.99												
Non-Excessive Energy Amount	55500-0069	3,316,156.20												
Real Time Non-Asset Energy	55500-0043	(955,555.52)												
Subtotal		71,724,838.28	(416,440)				676,659						333,287	
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	20,444,278.56		156,842.98		(1,457,376.87)								
Day Ahead Financial Bilateral Transaction Loss	55500-0022	5,770,514.24		15,306.45		(566,407.55)								
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	517,129.30		129,096.18		(36,460.72)								
Real Time Distribution of Losses	55500-0041	(6,654,861.34)		1,601,008.83		(51,219.59)								
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-								
Subtotal		20,077,060.76	(416,440)	1,902,254.44	(416,440)	(2,111,464.74)	676,659		676,659				333,287	
Virtual Energy														
Day Ahead Virtual Energy	55500-0030	-												
Real Time Virtual Energy	55500-0049	-												
Subtotal		-	(416,440)	-	(416,440)	-	676,659		676,659				333,287	
Schedule 16 & 17 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020	1,789,519.73		13,411.78		(113,649.42)								
Real Time Market Administration (Schedule 17)	55500-0036	184,837.01		1,232.75		(12,076.51)								
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	40,324.08		1,128.01		(7,908.12)								
Subtotal		2,014,680.82	(416,440)	15,772.53	(416,440)	(133,634.05)	676,659		676,659				333,287	
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	41,325,861.31		169,645.93		(3,021,471.20)								
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	822,001.97		130,671.93		(178,179.56)								
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	6,451,817.17		260,579.39		(937,594.02)								
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-								
Auction Revenue Rights Transaction Amount	55500-0058	(3,781,050.20)		1,122,248.25		(7,193.35)								
Financial Transmission Rights Annual Transaction Amount	55500-0059	4,222,969.60		11,482.37		(338,239.81)								
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	204,039.60		197.06		(18,729.72)								
Financial Transmission Rights Hourly Allocation	55500-0061	(1,527,127.46)		435,194.70		(5,858.50)								
Financial Transmission Rights Monthly Allocation	55500-0032	(6,876,033.62)		2,495,722.28		(256,693.25)								
Financial Transmission Rights Yearly Allocation	55500-0033	(268,844.11)		78,040.16		(1,186.15)								
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(32,948.99)		-		(728.88)								
FTR Guarantee Uplift Amount	55500-0055	(190,067.70)		85,818.32		(3,085.34)								
Financial Transmission Rights Monthly Transaction Amount	55500-0056	238,672.51		13,039.59		(29,785.16)								
Financial Transmission Rights Transaction	55500-0034	674,767.16		44,708.63		(48,367.31)								
Subtotal		41,266,057.24	(416,440)	4,847,348.61	(416,440)	(4,847,080.07)	676,659		676,659				333,287	
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	403,130.50		4,302.82		(26,572.77)								
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(190,249.37)		55,434.34		(816.93)								
Real Time Price Volatility Make Whole Payment	55500-0057	(292,136.44)		16,432.07		(5,294.95)								
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	1,555,710.34		14,605.13		(93,264.33)								
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(2,060,059.86)		503,368.71		(5,050.65)								
Subtotal		(583,653.83)	(416,440)	594,143.06	(416,440)	(130,999.63)	676,659		676,659				333,287	
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042	(8,039.94)		5,605.80		(369.94)								
Real Time Net Inadvertent Distribution	55500-0044	(107,675.21)		46,726.87		(833.28)								
Real Time Revenue Neutrality Uplift Amount	55500-0045	3,119,205.34		17,616.83		(325,840.71)								
Real Time Uninstructed Deviation	55500-0048	-		-		-								
Demand Response Allocation Uplift Amount	55500-0077	340,082.86		290.78		(37,360.66)								
Day Ahead Ramp Capability Amount	55500-0079	(3,231.42)		787.26		(30.76)								
Real Time Ramp Capability Amount	55500-0080	(9,498.07)		3,247.58		(2.20)								
Real Time Schedule 49 Cost Distribution Amount	55500-0081	185,724.26		919.94		(13,236.28)								
Subtotal		3,516,567.82	(416,440)	75,195.06	(416,440)	(377,673.83)	676,659		676,659				333,287	
Grandfathered Charge Types														
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-								
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-								
Day Ahead Losses Rebate on Option B Grandfathered	55500-0025	-		-		-								
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-								
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-								
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-								
Subtotal		-	(416,440)	-	(416,440)	-	676,659		676,659				333,287	
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062	(785,217.29)		152,847.20		(7,896.10)								
Day Ahead Spinning Reserve Amount	55500-0063	(698,972.86)		173,042.22		(3,831.05)								
Day Ahead Supplemental Reserve Amount	55500-0064	(11,128.29)		436.30		(334.80)								
Contingency Reserve Deployment Failure Charge Amount	55500-0065	293.11		-		(20.29)								
Net Regulation Adjustment Amount	55500-0068	9,191.17		759.37		(1,673.77)								
Real Time Regulation Amount	55500-0070	135,624.84		764.29		(12,869.10)								
Regulation Reserve Cost Distribution Amount	55500-0071	535,894.45		4,614.22		(33,333.04)								
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	322,406.71		3,986.47		(16,351.28)								
Real Time Spinning Reserve Amount	55500-0072	42,937.06		16,439.31		(4,339.29)								
Spinning Reserve Cost Distribution Amount	55500-0073	521,644.85		3,927.03		(34,683.25)								
Real Time Supplemental Reserve Amount	55500-0074	(6,011.43)		2,673.64		(45.30)								
Supplemental Reserve Cost Distribution Amount	55500-0075	164,903.82		2,603.47		(7,172.43)								
Day-Ahead Short-Term Reserve Amount	55500-0082	(16,396.77)		5,804.31		-								
Real-Time Short-Term Reserve Amount	55500-0083	3,696.07		-		(379.43)								
Short-Term Reserve Cost Distribution Amount	55500-0084	22,343.78		-		(2,293.76)								
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-								
Subtotal		241,209.22	(416,440)	367,897.85	(416,440)	(125,222.87)	676,659		676,659				333,287	
Grand Total		138,256,760.31	(416,440)	7,802,611.54	(416,440)	(7,726,075.18)	676,659		676,659				333,287	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	January 2020 - December 2020	Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	153,200,429.71 (86,488,737.34)								
Day Ahead Non-Asset Energy	55500-0027									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	2,616,296.24								
Excessive Energy Amount	55500-0066	36,248.99								
Non-Excessive Energy Amount	55500-0069	3,316,156.20								
Real Time Non-Asset Energy	55500-0043	(955,555.52)								
Subtotal		71,724,838.28	2,630,329					2,148,443		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	20,444,278.56		6,901,046.18		-				
Day Ahead Financial Bilateral Transaction Loss	55500-0022	5,770,514.24		2,295,116.25		(71,785.49)				
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	517,129.30		244,498.46		(226,311.75)				
Real Time Distribution of Losses	55500-0041	(6,654,861.34)		-		(3,377,500.07)				
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-				
Subtotal		20,077,060.76	2,630,329	9,440,660.90	2,630,329	(3,675,597.30)		2,148,443		2,148,443
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	2,630,329	-	2,630,329	-		2,148,443		2,148,443
Schedule 16 & 17 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	1,789,519.73		576,448.22		-				
Real Time Market Administration (Schedule 17)	55500-0036	184,837.01		59,961.89		-				
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	40,324.08		42,628.91		-				
Subtotal		2,014,680.82	2,630,329	679,039.02	2,630,329	-		2,148,443		2,148,443
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	41,325,861.31		14,134,448.13		-				
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	822,001.97		700,775.66		(431,615.46)				
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	6,451,817.17		3,269,720.30		(607,894.76)				
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-				
Auction Revenue Rights Transaction Amount	55500-0058	(3,781,050.20)		1,529,876.11		(2,209,629.94)				
Financial Transmission Rights Annual Transaction Amount	55500-0059	4,222,969.60		1,529,876.11		-				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	204,039.60		78,662.20		-				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(1,527,127.46)		-		(861,840.08)				
Financial Transmission Rights Hourly Allocation	55500-0032	(6,876,033.62)		813,246.93		(5,139,044.32)				
Financial Transmission Rights Monthly Allocation	55500-0033	(268,844.11)		-		(151,381.09)				
Financial Transmission Rights Yearly Allocation	55500-0035	(32,948.99)		-		(6,522.02)				
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(190,067.70)		12,654.50		(153,592.22)				
FTR Guarantee Uplift Amount	55500-0055	238,672.51		108,488.70		(20,842.63)				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	674,767.16		238,339.89		(59,093.94)				
Financial Transmission Rights Transaction	55500-0034	-		-		-				
Subtotal		41,266,057.24	2,630,329	20,886,212.42	2,630,329	(9,641,456.54)		2,148,443		2,148,443
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	403,130.50		128,960.23		-				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(190,292.37)		2,629.24		(109,364.07)				
Real Time Price Volatility Make Whole Payment	55500-0057	(292,136.44)		-		(78,748.69)				
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	1,555,710.34		511,916.27		(1,827.36)				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(2,060,059.86)		13,977.88		(1,112,477.40)				
Subtotal		(583,653.83)	2,630,329	657,483.61	2,630,329	(1,302,417.52)		2,148,443		2,148,443
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	(8,039.94)		2,275.91		(10,351.58)				
Real Time Net Inadvertent Distribution	55500-0044	(107,675.21)		5,515.23		(84,391.43)				
Real Time Revenue Neutrality Uplift Amount	55500-0045	3,119,205.34		1,255,862.51		(74,635.73)				
Real Time Uninstructed Deviation	55500-0048	-		-		-				
Demand Response Allocation Uplift Amount	55500-0077	340,082.86		138,010.80		-				
Day Ahead Ramp Capability Amount	55500-0079	(3,231.42)		-		(3,987.92)				
Real Time Ramp Capability Amount	55500-0080	(9,498.07)		43.11		(6,189.53)				
Real Time Schedule 49 Cost Distribution Amount	55500-0081	185,724.26		63,683.26		-				
Subtotal		3,516,567.82	2,630,329	1,465,390.82	2,630,329	(179,556.19)		2,148,443		2,148,443
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-				
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-				
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-				
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-				
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-				
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-				
Subtotal		-	2,630,329	-	2,630,329	-		2,148,443		2,148,443
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(785,217.29)		-		(357,450.21)				
Day Ahead Spinning Reserve Amount	55500-0063	(698,972.86)		-		(359,037.17)				
Day Ahead Supplemental Reserve Amount	55500-0064	(11,128.29)		53.14		(2,653.99)				
Contingency Reserve Deployment Failure Charge Amount	55500-0065	293.11		87.70		-				
Net Regulation Adjustment Amount	55500-0068	9,191.17		5,918.36		(2,179.82)				
Real Time Regulation Amount	55500-0070	135,624.84		55,664.67		(4,262.56)				
Regulation Reserve Cost Distribution Amount	55500-0071	535,894.45		171,206.42		-				
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	322,406.71		97,928.90		-				
Real Time Spinning Reserve Amount	55500-0072	42,937.06		27,215.62		(31,930.50)				
Spinning Reserve Cost Distribution Amount	55500-0073	521,644.85		171,226.93		-				
Real Time Supplemental Reserve Amount	55500-0074	(6,011.43)		648.07		(5,127.50)				
Supplemental Reserve Cost Distribution Amount	55500-0075	164,903.82		45,851.06		-				
Day Ahead Short-Term Reserve Amount	55500-0082	(16,396.77)		-		(10,559.38)				
Real-Time Short-Term Reserve Amount	55500-0083	3,696.07		1,451.29		-				
Short-Term Reserve Cost Distribution Amount	55500-0084	22,343.78		8,773.45		-				
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-		-		-				
Subtotal		241,209.22	2,630,329	586,025.61	2,630,329	(773,201.12)		2,148,443		2,148,443
Grand Total		138,256,760.31	2,630,329	33,714,812.38	2,630,329	(15,572,228.68)		2,148,443		2,148,443

MINNESOTA POWER MISO MONTHLY ALLOCATION			YTD 2021			Jan-21			Feb-21		
			Forecast	Actual	Difference	Forecast	Actual	Difference	Forecast	Actual	Difference
Day Ahead and Real Time Energy											
		Account Number									
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	153,200,429.71	153,200,429.71	-	6,754,370.97	6,754,370.97	-	20,893,685.79	20,893,685.79
5	Day Ahead Non-Asset Energy	55500-0027	-	(86,488,737.34)	(86,488,737.34)	-	(4,509,293.47)	(4,509,293.47)	-	(13,516,347.44)	(13,516,347.44)
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	2,616,296.24	2,616,296.24	-	255,311.37	255,311.37	-	1,076,193.97	1,076,193.97
	Excessive Energy Amount	55500-0066	-	36,248.99	36,248.99	-	4,872.98	4,872.98	-	1,173.25	1,173.25
	Non-Excessive Energy Amount	55500-0069	-	3,316,156.20	3,316,156.20	-	403,216.16	403,216.16	-	220,483.11	220,483.11
22	Real Time Non-Asset Energy	55500-0043	-	(955,555.52)	(955,555.52)	-	(4,773.19)	(4,773.19)	-	(1,249,928.41)	(1,249,928.41)
	Subtotal		-	71,724,838.28	71,724,838.28	-	2,903,704.82	2,903,704.82	-	7,425,260.28	7,425,260.28
Day Ahead and Real Time Energy Loss											
	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	17,553,391.11	20,444,278.56	2,890,887.45	1,540,601.40	1,015,714.16	(524,887.24)	1,242,426.87	2,836,545.25	1,594,118.38
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	5,171,308.07	5,770,514.24	599,206.17	321,119.62	236,404.60	(84,715.02)	48,924.87	(385,011.45)	(433,936.32)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-	517,129.30	517,129.30	-	326,354.70	326,354.70	-	35,076.19	35,076.19
14	Real Time Distribution of Losses	55500-0041	(3,600,000.00)	(6,654,861.34)	(3,054,861.34)	(300,000.00)	(338,883.20)	(38,883.20)	(300,000.00)	(1,016,888.50)	(716,888.50)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-	-	-	-	-	-	-	-	-
	Subtotal		19,124,699.18	20,077,060.76	952,361.58	1,561,721.02	1,239,590.26	(322,130.76)	991,351.75	1,469,721.49	478,369.75
Virtual Energy											
12	Day Ahead Virtual Energy	55500-0030	-	-	-	-	-	-	-	-	-
27	Real Time Virtual Energy	55500-0049	-	-	-	-	-	-	-	-	-
	Subtotal		-	-	-	-	-	-	-	-	-
Schedule 16 & 17 - 1/											
4	Day Ahead Market Administration (Schedule 17)	55500-0020	1,728,000.00	1,789,519.73	61,519.73	144,000.00	147,205.14	3,205.14	144,000.00	159,948.51	15,948.51
19	Real Time Market Administration (Schedule 17)	55500-0036	144,000.00	184,837.01	40,837.01	12,000.00	13,825.66	1,825.66	12,000.00	12,913.48	913.48
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	36,000.00	40,324.08	4,324.08	3,000.00	2,788.98	(211.02)	3,000.00	3,163.18	163.18
	Subtotal		1,908,000.00	2,014,680.82	106,680.82	159,000.00	163,819.78	4,819.78	159,000.00	176,025.17	17,025.17
Congestion, FTRs & ARRs											
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-	41,325,861.31	41,325,861.31	-	1,527,326.01	1,527,326.01	-	1,240,917.58	1,240,917.58
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-	822,001.97	822,001.97	-	23,813.45	23,813.45	-	(1,037,593.00)	(1,037,593.00)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	5,171,308.07	6,451,817.17	1,280,509.10	321,119.62	278,955.92	(42,163.70)	48,924.87	(962,637.15)	(1,011,562.02)
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	-	-	-	-	-	-	-	-
	Auction Revenue Rights Transaction Amount	55500-0058	(209,723.29)	(3,781,050.20)	(3,571,326.91)	(17,476.94)	(57,905.38)	(40,428.44)	(17,476.94)	(57,905.38)	(40,428.44)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(1,442,267.77)	4,222,969.60	5,665,237.37	(120,188.98)	64,837.53	185,026.51	(120,188.98)	64,837.53	185,026.51
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	120,000.00	204,039.60	84,039.60	10,000.00	2,912.71	(7,087.29)	10,000.00	2,912.71	(7,087.29)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(768,000.00)	(1,527,127.46)	(759,127.46)	(64,000.00)	(67,699.26)	(3,699.26)	(64,000.00)	(67,699.26)	(3,699.26)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-	(6,876,033.62)	(6,876,033.62)	-	(130,846.12)	(130,846.12)	-	413,066.15	413,066.15
30	Financial Transmission Rights Monthly Allocation	55500-0033	-	(266,844.11)	(266,844.11)	-	(6,571.94)	(6,571.94)	-	(4,840.84)	(4,840.84)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	(32,948.99)	(32,948.99)	-	(32,948.99)	(32,948.99)	-	-	-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-	(190,067.70)	(190,067.70)	-	15,384.04	15,384.04	-	(3,974.78)	(3,974.78)
	FTR Guarantee Uplift Amount	55500-0055	-	238,672.51	238,672.51	-	7,482.35	7,482.35	-	2,931.15	2,931.15
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	674,767.16	674,767.16	-	57,735.83	57,735.83	-	111,713.42	111,713.42
31	Financial Transmission Rights Transaction	55500-0034	-	-	-	-	-	-	-	-	-
	Subtotal		2,871,317.01	41,266,057.24	38,394,740.24	129,453.70	1,682,476.15	1,553,022.45	(142,741.05)	(298,271.88)	(155,530.83)
RSG & Make Whole Payments											
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	264,000.00	403,130.50	139,130.50	22,000.00	25,642.25	3,642.25	22,000.00	90,232.70	68,232.70
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(84,000.00)	(190,298.37)	(106,298.37)	(7,000.00)	(531.22)	6,468.78	(7,000.00)	(7,172.98)	(172.98)
	Real Time Price Volatility Make Whole Payment	55500-0057	(156,000.00)	(292,136.44)	(136,136.44)	(13,000.00)	(786.79)	12,213.21	(13,000.00)	(124,354.12)	(111,354.12)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	504,000.00	1,555,710.34	1,051,710.34	42,000.00	22,691.20	(19,308.80)	42,000.00	320,481.60	278,481.60
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(156,000.00)	(2,060,059.86)	(1,904,059.86)	(13,000.00)	721.06	13,721.06	(13,000.00)	(29,358.28)	(16,358.28)
	Subtotal		372,000.00	(583,653.83)	(955,653.83)	31,000.00	47,736.50	16,736.50	31,000.00	249,828.92	218,828.92
RNU & Misc Charges											
20	Real Time Miscellaneous	55500-0042	-	(8,039.94)	(8,039.94)	-	220.73	220.73	-	1,275.65	1,275.65
21	Real Time Net Inadvertent Distribution	55500-0044	84,000.00	(107,675.21)	(191,675.21)	7,000.00	1,295.11	(5,704.89)	7,000.00	12,134.69	5,134.69
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	1,416,000.00	3,119,205.34	1,703,205.34	118,000.00	172,006.85	54,006.85	118,000.00	(400,298.30)	(518,298.30)
26	Real Time Uninstructed Deviation	55500-0048	-	-	-	-	-	-	-	-	-
	Demand Response Allocation Uplift Amount	55500-0077	-	340,082.86	340,082.86	-	817.97	817.97	-	2,536.49	2,536.49
33	Day Ahead Ramp Capability Amount	55500-0079	(24,000.00)	(3,231.42)	(20,768.58)	(2,000.00)	(18.57)	1,981.43	(2,000.00)	-	2,000.00
34	Real Time Ramp Capability Amount	55500-0080	-	(9,498.07)	(9,498.07)	-	16.54	16.54	-	(56.60)	(56.60)
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	320,000.00	185,724.26	(134,275.74)	56,000.00	13,575.65	(42,424.35)	24,000.00	7,660.00	(16,340.00)
	Subtotal		1,796,000.00	3,516,567.82	1,720,567.82	179,000.00	187,914.28	8,914.28	147,000.00	(376,748.07)	(523,748.07)
Grandfathered Charge Types											
6	Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-	-	-	-	-	-	-	-	-
7	Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-	-	-	-	-	-	-	-	-
8	Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-	-	-	-	-	-	-	-	-
9	Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-	-	-	-	-	-	-	-	-
17	Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-	-	-	-	-	-	-	-	-
18	Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-	-	-	-	-	-	-	-	-
	Subtotal		-	-	-	-	-	-	-	-	-
ASM Charge Types (12 Other)											
	Day Ahead Regulation Amount	55500-0062	(444,000.00)	(785,217.29)	(341,217.29)	(37,000.00)	(92,312.48)	(55,312.48)	(37,000.00)	(83,666.29)	(46,666.29)
	Day Ahead Spinning Reserve Amount	55500-0063	(456,000.00)	(698,972.86)	(242,972.86)	(38,000.00)	(16,419.78)	21,580.22	(38,000.00)	(48,774.69)	(10,774.69)
	Day Ahead Supplemental Reserve Amount	55500-0064	-	(11,128.29)	(11,128.29)	-	(29.34)	(29.34)	-	(9,675.95)	(9,675.95)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	293.11	293.11	-	-	-	-	-	-
	Net Regulation Adjustment Amount	55500-0068	-	9,191.17	9,191.17	-	913.46	913.46	-	(3,014.21)	(3,014.21)
	Real Time Regulation Amount	55500-0070	24,000.00	135,624.84	111,624.84	2,000.00	13,569.68	11,569.68	2,000.00	(22,861.63)	(24,861.63)
	Regulation Reserve Cost Distribution Amount	55500-0071	396,000.00	535,894.45	139,894.45	33,000.00	39,341.87	6,341.87	33,000.00	63,696.27	30,696.27
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	204,000.00	322,406.71	118,406.71	17,000.00	33,528.78	16,528.78	17,000.00	46,419.09	29,419.09
	Real Time Spinning Reserve Amount	55500-0072	60,000.00	42,937.06	(17,062.94)	5,000.00	3,978.02	(1,021.98)	5,000.00	22,673.58	17,673.58
	Spinning Reserve Cost Distribution Amount	55500-0073	408,000.00	521,644.85	113,644.85	34,000.00	18,916.34	(15,083.66)	34,000.00	55,793.08	21,793.08
	Real Time Supplemental Reserve Amount	55500-0074	-	(6,011.43)	(6,011.43)	-	35.24	35.24	-	2,530.04	2,530.04
	Supplemental Reserve Cost Distribution Amount	55500-0075	108,000.00	164,903.82	56,903.82	9,000.00	2,804.84	(6,195.16)	9,000.00	69,895.65	60,895.65
	Day-Ahead Short-Term Reserve Amount	55500-0082	-	(16,396.77)	(16,396.77)	-	-	-	-	-	-
	Real-Time Short-Term Reserve Amount	55500-0083	-	3,696.07	3,696.07	-	-	-	-	-	-
	Short-Term Reserve Cost Distribution Amount	55500-0084	-	22,343.78	22,343.78	-	-	-	-	-	-
	Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-	-	-	-	-	-	-	-	-
	Subtotal		300,000.00	241,209.22	(68,433.86)	25,000.00	4,326.63	(20,673.37)	25,000.00	93,014.94	68,014.94
	Grand Total		26,372,								

MINNESOTA POWER
MISO MONTHLY ALLOCATION

	Account Number	Mar-21			Apr-21			May-21		
		Forecast	Actual	Difference	Forecast	Actual	Difference	Forecast	Actual	Difference
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	6,371,185.25	6,371,185.25	-	8,390,533.79	8,390,533.79	-	11,920,622.93	11,920,622.93
Day Ahead Non-Asset Energy	55500-0027	-	(5,006,383.74)	(5,006,383.74)	-	(3,287,154.90)	(3,287,154.90)	-	(7,040,527.29)	(7,040,527.29)
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	229,871.99	229,871.99	-	(260,927.11)	(260,927.11)	-	722,387.77	722,387.77
Excessive Energy Amount	55500-0066	-	(116.59)	(116.59)	-	15,374.99	15,374.99	-	1,607.70	1,607.70
Non-Excessive Energy Amount	55500-0069	-	(27,305.33)	(27,305.33)	-	895,026.67	895,026.67	-	4,157.31	4,157.31
Real Time Non-Asset Energy	55500-0043	-	7,710.17	7,710.17	-	(50,029.56)	(50,029.56)	-	(267,785.00)	(267,785.00)
Subtotal		-	1,574,961.75	1,574,961.75	-	5,702,823.87	5,702,823.87	-	5,340,463.42	5,340,463.42
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,660,560.01	1,022,046.80	(638,513.21)	1,188,975.74	1,100,132.66	(88,843.08)	679,965.10	702,925.23	22,960.13
Day Ahead Financial Bilateral Transaction Loss	55500-0022	232,827.53	238,394.39	5,566.86	361,278.56	342,568.82	(18,709.74)	553,817.11	294,780.89	(259,036.22)
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-	14,017.92	14,017.92	-	10,925.14	10,925.14	-	78,499.53	78,499.53
Real Time Distribution of Losses	55500-0041	(300,000.00)	(251,049.55)	48,950.45	(300,000.00)	(249,166.57)	50,833.43	(300,000.00)	(179,853.90)	120,146.10
Real Time Financial Bilateral Transaction Loss	55500-0038	-	-	-	-	-	-	-	-	-
Subtotal		1,593,387.54	1,023,409.56	(569,977.98)	1,250,254.30	1,204,460.05	(45,794.25)	933,782.21	896,351.74	(37,430.46)
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-	-	-	-	-	-	-	-	-
Real Time Virtual Energy	55500-0049	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-
Schedule 16 & 17 /1										
Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00	110,317.22	(33,682.78)	144,000.00	172,888.82	28,888.82	144,000.00	159,172.72	15,172.72
Real Time Market Administration (Schedule 17)	55500-0036	12,000.00	11,122.36	(877.64)	12,000.00	18,630.34	6,630.34	12,000.00	17,609.10	5,609.10
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,000.00	2,887.16	(112.84)	3,000.00	4,047.25	1,047.25	3,000.00	2,920.39	(79.61)
Subtotal		159,000.00	124,326.74	(34,673.26)	159,000.00	195,566.41	36,566.41	159,000.00	179,702.21	20,702.21
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-	1,306,712.67	1,306,712.67	-	6,400,710.37	6,400,710.37	-	716,685.15	716,685.15
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-	165,734.73	165,734.73	-	144,468.24	144,468.24	-	(51,608.60)	(51,608.60)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	232,827.53	339,518.78	106,691.25	361,278.56	180,243.67	(181,034.89)	553,817.11	296,248.05	(257,569.06)
Real Time Financial Bilateral Transaction Congestion	55500-0037	-	-	-	-	-	-	-	-	-
Auction Revenue Rights Transaction Amount	55500-0058	(17,476.94)	(103,415.41)	(85,938.47)	(17,476.94)	(103,415.41)	(85,938.47)	(17,476.94)	(103,415.41)	(85,938.47)
Financial Transmission Rights Infeasible Uplift Amount	55500-0059	(120,188.98)	205,009.39	325,198.37	(120,188.98)	205,009.39	325,198.37	(120,188.98)	205,009.39	325,198.37
Auction Revenue Rights Stage 2 Distribution Amount	55500-0060	10,000.00	913.41	(9,086.59)	10,000.00	913.41	(9,086.59)	10,000.00	913.41	(9,086.59)
Financial Transmission Rights Hourly Allocation	55500-0032	(64,000.00)	(54,501.41)	9,498.59	(64,000.00)	(54,501.41)	9,498.59	(64,000.00)	(54,501.41)	9,498.59
Financial Transmission Rights Monthly Allocation	55500-0033	-	(312,368.27)	(312,368.27)	-	(439,838.40)	(439,838.40)	-	212,741.38	212,741.38
Financial Transmission Rights Yearly Allocation	55500-0035	-	(24,873.43)	(24,873.43)	-	(14,049.18)	(14,049.18)	-	(15,477.80)	(15,477.80)
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-	(2,872.51)	(2,872.51)	-	(8,699.23)	(8,699.23)	-	5,226.54	5,226.54
FTR Guarantee Uplift Amount	55500-0055	-	2,872.51	2,872.51	-	8,266.39	8,266.39	-	(4,788.88)	(4,788.88)
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	77,013.52	77,013.52	-	68,424.51	68,424.51	-	35,162.99	35,162.99
Financial Transmission Rights Transaction	55500-0034	-	-	-	-	-	-	-	-	-
Subtotal		41,161.61	1,599,743.97	1,558,582.37	169,612.64	6,387,532.35	6,217,919.71	362,151.19	1,242,194.81	880,043.63
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	22,000.00	18,572.29	(3,427.71)	22,000.00	18,169.83	(3,830.17)	22,000.00	28,598.05	6,598.05
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(7,000.00)	(18.60)	6,981.40	(7,000.00)	(1,775.35)	5,224.65	(7,000.00)	(17,440.15)	(10,440.15)
Real Time Price Volatility Make Whole Payment	55500-0057	(13,000.00)	(140.14)	12,859.86	(13,000.00)	(123,015.69)	(110,015.69)	(13,000.00)	(6,483.24)	6,516.76
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	42,000.00	113,764.67	71,764.67	42,000.00	(8,266.88)	(50,266.88)	42,000.00	96,331.35	54,331.35
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(13,000.00)	-	13,000.00	(13,000.00)	7,094.02	20,094.02	(13,000.00)	(151,703.07)	(138,703.07)
Subtotal		31,000.00	132,178.22	101,178.22	31,000.00	(107,794.07)	(138,794.07)	31,000.00	(50,697.06)	(81,697.06)
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	-	87.41	87.41	-	2,171.94	2,171.94	-	(676.81)	(676.81)
Real Time Net Inadvertent Distribution	55500-0044	7,000.00	(2,220.89)	(9,220.89)	7,000.00	(3,857.46)	(10,857.46)	7,000.00	7,459.37	459.37
Real Time Revenue Neutrality Uplift Amount	55500-0045	118,000.00	404,341.54	286,341.54	118,000.00	213,039.02	95,039.02	118,000.00	269,195.25	151,195.25
Real Time Uninstructed Deviation	55500-0048	-	-	-	-	-	-	-	-	-
Demand Response Allocation Uplift Amount	55500-0077	-	4,321.42	4,321.42	-	6,733.83	6,733.83	-	5,654.30	5,654.30
Day Ahead Ramp Capability Amount	55500-0079	(2,000.00)	2,697.31	4,697.31	(2,000.00)	(733.76)	(1,266.24)	(2,000.00)	(390.50)	1,609.50
Real Time Ramp Capability Amount	55500-0080	-	(10.30)	(10.30)	-	180.20	180.20	-	(137.55)	(137.55)
Real Time Schedule 49 Cost Distribution Amount	55500-0081	24,000.00	8,499.22	(15,500.78)	24,000.00	12,629.07	(11,370.93)	24,000.00	13,122.05	(10,877.95)
Subtotal		147,000.00	415,015.71	268,015.71	147,000.00	230,162.84	83,162.84	147,000.00	294,226.11	147,226.11
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-	-	-	-	-	-	-	-	-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-	-	-	-	-	-	-	-	-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-	-	-	-	-	-	-	-	-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-	-	-	-	-	-	-	-	-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-	-	-	-	-	-	-	-	-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(37,000.00)	(94,675.61)	(57,675.61)	(37,000.00)	(29,388.26)	7,611.74	(37,000.00)	(25,329.97)	11,670.03
Day Ahead Spinning Reserve Amount	55500-0063	(38,000.00)	(48,783.12)	(10,783.12)	(38,000.00)	(44,107.52)	(6,107.52)	(38,000.00)	(73,556.34)	(35,556.34)
Day Ahead Supplemental Reserve Amount	55500-0064	-	(15.50)	(15.50)	-	(161.51)	(161.51)	-	(99.73)	(99.73)
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	-	-	-	-	-	-	-	-
Net Regulation Adjustment Amount	55500-0068	-	(66.55)	(66.55)	-	527.97	527.97	-	547.38	547.38
Real Time Regulation Amount	55500-0070	2,000.00	13,487.28	11,487.28	2,000.00	7,544.47	5,544.47	2,000.00	11,077.41	9,077.41
Regulation Reserve Cost Distribution Amount	55500-0071	33,000.00	41,404.89	8,404.89	33,000.00	43,487.22	10,487.22	33,000.00	44,318.04	11,318.04
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	17,000.00	51,248.92	34,248.92	17,000.00	20,033.09	3,033.09	17,000.00	5,560.59	(11,439.41)
Real Time Spinning Reserve Amount	55500-0072	5,000.00	8,508.63	3,508.63	5,000.00	20,128.32	15,128.32	5,000.00	(12,870.71)	(7,870.71)
Spinning Reserve Cost Distribution Amount	55500-0073	34,000.00	42,275.75	8,275.75	34,000.00	43,796.81	9,796.81	34,000.00	48,651.97	14,651.97
Real Time Supplemental Reserve Amount	55500-0074	-	10.99	10.99	-	137.14	137.14	-	(76.99)	(76.99)
Supplemental Reserve Cost Distribution Amount	55500-0075	9,000.00	4,545.22	(4,454.78)	9,000.00	7,000.91	(1,999.09)	9,000.00	7,248.07	(1,751.93)
Day-Ahead Short-Term Reserve Amount	55500-0082	-	-	-	-	-	-	-	-	-
Real-Time Short-Term Reserve Amount	55500-0083	-	-	-	-	-	-	-	-	-
Short-Term Reserve Cost Distribution Amount	55500-0084	-	-	-	-	-	-	-	-	-
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-	-	-	-	-	-	-	-	-
Subtotal		25,000.00	17,940.90	(7,059.10)	25,000.00	68,998.64	43,998.64	25,000.00	5,469.72	(19,530.28)
Grand Total		1,996,549.14	4,887,576.85	2,891,027.71	1,781,866.94	13,681,750.09	11,899,883.15	1,657,933.39	7,907,710.96	6,249,777.57

**MINNESOTA POWER
MISO MONTHLY ALLOCATION**

Account Number	Sep-21			Oct-21		
	Forecast	Actual	Difference	Forecast	Actual	Difference
Day Ahead and Real Time Energy						
Day Ahead Asset Energy	-	19,828,837.86	19,828,837.86	-	19,119,084.33	19,119,084.33
Day Ahead Non-Asset Energy	-	(8,241,084.43)	(8,241,084.43)	-	(12,138,498.63)	(12,138,498.63)
Real Time Asset Energy	-	885,502.34	885,502.34	-	612,856.77	612,856.77
Excessive Energy Amount	-	4,824.45	4,824.45	-	(139.18)	(139.18)
Non-Excessive Energy Amount	-	(601,769.64)	(601,769.64)	-	(1,407,274.85)	(1,407,274.85)
Real Time Non-Asset Energy	-	(498,843.76)	(498,843.76)	-	(42,072.13)	(42,072.13)
Subtotal	-	11,377,466.83	11,377,466.83	-	6,143,956.31	6,143,956.31
Day Ahead and Real Time Energy Loss						
Day Ahead Loss	1,010,990.50	1,817,863.09	806,872.58	1,767,258.73	2,344,744.66	577,485.93
Day Ahead Financial Bilateral Transaction Loss	905,173.09	1,163,015.59	257,842.50	557,388.74	887,540.34	330,151.60
Real Time Loss	-	(91,207.47)	(91,207.47)	-	53,430.16	53,430.16
Real Time Distribution of Losses	(300,000.00)	(668,432.37)	(368,432.37)	(300,000.00)	(751,882.03)	(451,882.03)
Real Time Financial Bilateral Transaction Loss	-	-	-	-	-	-
Subtotal	1,616,163.59	2,221,238.83	605,075.24	2,024,647.47	2,533,833.13	509,185.66
Virtual Energy						
Day Ahead Virtual Energy	-	-	-	-	-	-
Real Time Virtual Energy	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-
Schedule 16 & 17 -1/						
Day Ahead Market Administration (Schedule 17)	144,000.00	141,462.41	(2,537.59)	144,000.00	143,549.51	(450.49)
Real Time Market Administration (Schedule 17)	12,000.00	18,120.63	6,120.63	12,000.00	16,316.84	4,316.84
Financial Transmission Rights Market Administration (Schedule 16)	3,000.00	3,115.79	115.79	3,000.00	3,014.26	14.26
Subtotal	159,000.00	162,698.83	3,698.83	159,000.00	162,880.61	3,880.61
Congestion, FTRs & ARR's						
Day Ahead Congestion	-	5,073,876.94	5,073,876.94	-	5,920,713.31	5,920,713.31
Real Time Congestion	-	(226,227.86)	(226,227.86)	-	177,601.30	177,601.30
Day Ahead Financial Bilateral Transaction Congestion	905,173.09	1,366,972.21	461,799.12	557,388.74	264,095.41	(293,293.33)
Real Time Financial Bilateral Transaction Congestion	-	-	-	-	-	-
Auction Revenue Rights Transaction Amount	(17,476.94)	(525,629.64)	(508,152.70)	(17,476.94)	(525,629.64)	(508,152.70)
Financial Transmission Rights Annual Transaction Amount	(120,188.98)	504,968.95	625,157.93	(120,188.98)	504,968.95	625,157.93
Auction Revenue Rights Infeasible Uplift Amount	10,000.00	31,914.56	21,914.56	10,000.00	31,914.56	21,914.56
Auction Revenue Rights Stage 2 Distribution Amount	(64,000.00)	(214,957.90)	(150,957.90)	(64,000.00)	(214,957.90)	(150,957.90)
Financial Transmission Rights Hourly Allocation	-	(2,565,751.21)	(2,565,751.21)	-	(1,985,238.71)	(1,985,238.71)
Financial Transmission Rights Monthly Allocation	-	(90,767.76)	(90,767.76)	-	(23,286.33)	(23,286.33)
Financial Transmission Rights Yearly Allocation	-	-	-	-	-	-
Financial Transmission Rights Full Funding Guarantee Amount	-	(23,884.72)	(23,884.72)	-	(130,148.86)	(130,148.86)
FTR Guarantee Uplift Amount	-	23,884.72	23,884.72	-	149,166.86	149,166.86
Financial Transmission Rights Monthly Transaction Amount	-	151,489.13	151,489.13	-	176,348.73	176,348.73
Financial Transmission Rights Transaction	-	-	-	-	-	-
Subtotal	713,507.17	3,505,887.42	2,792,380.25	365,722.81	4,345,547.67	3,979,824.86
RSG & Make Whole Payments						
Day Ahead Revenue Sufficiency Guarantee Distribution	22,000.00	29,789.70	7,789.70	22,000.00	48,885.04	26,885.04
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	(7,000.00)	6,937.07	13,937.07	(7,000.00)	(26,896.45)	(19,896.45)
Real Time Price Volatility Make Whole Payment	(13,000.00)	(1,235.79)	11,764.21	(13,000.00)	(16,632.64)	(3,632.64)
Real Time Revenue Sufficiency Guarantee First Pass Dist	42,000.00	231,503.68	189,503.68	42,000.00	142,486.54	100,486.54
Real Time Revenue Sufficiency Guarantee Make Whole Payment	(13,000.00)	(859,370.79)	(846,370.79)	(13,000.00)	19,372.27	32,372.27
Subtotal	31,000.00	(592,376.13)	(623,376.13)	31,000.00	167,214.76	136,214.76
RNU & Misc Charges						
Real Time Miscellaneous	-	(7,053.12)	(7,053.12)	-	(5,993.36)	(5,993.36)
Real Time Net Inadvertent Distribution	7,000.00	(6,864.54)	(13,864.54)	7,000.00	(23,693.40)	(30,693.40)
Real Time Revenue Neutrality Uplift Amount	118,000.00	451,179.05	333,179.05	118,000.00	406,642.49	288,642.49
Real Time Uninstructed Deviation	-	-	-	-	-	-
Demand Response Allocation Uplift Amount	-	43,053.97	43,053.97	-	106,441.55	106,441.55
Day Ahead Ramp Capability Amount	(2,000.00)	(46.54)	1,953.46	(2,000.00)	(497.67)	1,502.33
Real Time Ramp Capability Amount	-	(3,387.64)	(3,387.64)	-	(3,436.99)	(3,436.99)
Real Time Schedule 49 Cost Distribution Amount	24,000.00	18,683.04	(5,316.96)	24,000.00	18,891.13	(5,108.87)
Subtotal	147,000.00	495,564.22	348,564.22	147,000.00	498,353.75	351,353.75
Grandfathered Charge Types						
Day Ahead Congestion Rebate on Carve-Out Grandfathered	-	-	-	-	-	-
Day Ahead Losses Rebate on Carve-Out Grandfathered	-	-	-	-	-	-
Day Ahead Congestion Rebate on Option B Grandfathered	-	-	-	-	-	-
Day Ahead Losses Rebate on Option B Grandfathered	-	-	-	-	-	-
Real Time Losses Rebate on Carve-Out Grandfathered	-	-	-	-	-	-
Real Time Congestion Rebate on Carve-Out Grandfathered	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-
ASM Charge Types (12 Other)						
Day Ahead Regulation Amount	(37,000.00)	(60,983.79)	(23,983.79)	(37,000.00)	(36,434.32)	565.68
Day Ahead Spinning Reserve Amount	(38,000.00)	(101,128.29)	(63,128.29)	(38,000.00)	(79,210.96)	(41,210.96)
Day Ahead Supplemental Reserve Amount	-	(4.09)	(4.09)	-	(170.93)	(170.93)
Contingency Reserve Deployment Failure Charge Amount	-	-	-	-	-	-
Net Regulation Adjustment Amount	-	(1,021.62)	(1,021.62)	-	1,832.71	1,832.71
Real Time Regulation Amount	2,000.00	34,076.30	32,076.30	2,000.00	5,013.64	3,013.64
Regulation Reserve Cost Distribution Amount	33,000.00	44,082.45	11,082.45	33,000.00	53,499.55	20,499.55
Real-Time Excessive Deficient Deployment Charge Amount	17,000.00	16,907.29	(92.71)	17,000.00	14,719.86	(2,280.14)
Real Time Spinning Reserve Amount	5,000.00	(21,563.86)	(26,563.86)	5,000.00	5,798.50	798.50
Spinning Reserve Cost Distribution Amount	34,000.00	35,530.47	1,530.47	34,000.00	71,430.25	37,430.25
Real Time Supplemental Reserve Amount	-	(627.49)	(627.49)	-	(1,134.62)	(1,134.62)
Supplemental Reserve Cost Distribution Amount	9,000.00	4,920.40	(4,079.60)	9,000.00	14,390.97	5,390.97
Day-Ahead Short-Term Reserve Amount	-	-	-	-	-	-
Real-Time Short-Term Reserve Amount	-	-	-	-	-	-
Short-Term Reserve Cost Distribution Amount	-	-	-	-	-	-
Short-Term Reserve Deployment Failure Charge Amount	-	-	-	-	-	-
Subtotal	25,000.00	(49,812.23)	(74,812.23)	25,000.00	49,734.65	24,734.65
Grand Total	2,691,670.76	17,120,667.77	14,428,997.01	2,752,370.28	13,901,520.88	11,149,150.60

MINNESOTA POWER MISO MONTHLY ALLOCATION		Nov-21			Dec-21		
Account Number		Forecast	Actual	Difference	Forecast	Actual	Difference
Day Ahead and Real Time Energy							
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	10,916,443.36	10,916,443.36	-	3,065,199.74	3,065,199.74
Day Ahead Non-Asset Energy	55500-0027	-	(9,868,868.34)	(9,868,868.34)	-	395,318.68	395,318.68
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	582,038.72	582,038.72	-	234,877.64	234,877.64
Excessive Energy Amount	55500-0066	-	(1,186.96)	(1,186.96)	-	(748.29)	(748.29)
Non-Excessive Energy Amount	55500-0069	-	(346,322.15)	(346,322.15)	-	1,875,604.39	1,875,604.39
Real Time Non-Asset Energy	55500-0043	-	(802,641.74)	(802,641.74)	-	351,788.81	351,788.81
Subtotal		-	479,462.89	479,462.89	-	5,922,040.97	5,922,040.97
Day Ahead and Real Time Energy Loss							
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,355,829.41	2,540,758.25	1,184,928.85	1,207,367.16	2,374,578.90	1,167,211.74
Day Ahead Financial Bilateral Transaction Loss	55500-0022	475,944.49	1,036,793.40	560,848.91	411,444.92	821,045.22	409,600.30
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-	(90,271.47)	(90,271.47)	-	(118,802.08)	(118,802.08)
Real Time Distribution of Losses	55500-0041	(300,000.00)	(689,315.62)	(389,315.62)	(300,000.00)	(731,768.08)	(431,768.08)
Real Time Financial Bilateral Transaction Loss	55500-0038	-	-	-	-	-	-
Subtotal		1,531,773.89	2,797,964.57	1,266,190.67	1,318,812.08	2,345,053.96	1,026,241.88
Virtual Energy							
Day Ahead Virtual Energy	55500-0030	-	-	-	-	-	-
Real Time Virtual Energy	55500-0049	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-
Schedule 16 & 17 - 1/							
Day Ahead Market Administration (Schedule 17)	55500-0020	144,000.00	166,524.06	22,524.06	144,000.00	178,187.60	34,187.60
Real Time Market Administration (Schedule 17)	55500-0036	12,000.00	16,139.00	4,139.00	12,000.00	15,946.71	3,946.71
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,000.00	3,440.83	440.83	3,000.00	3,876.05	876.05
Subtotal		159,000.00	186,103.89	27,103.89	159,000.00	198,010.36	39,010.36
Congestion, FTRs & ARR's							
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-	4,313,172.75	4,313,172.75	-	2,643,589.42	2,643,589.42
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-	(26,790.79)	(26,790.79)	-	(88,267.69)	(88,267.69)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	475,944.49	4,220,927.07	3,744,982.58	411,444.92	748,996.68	337,551.76
Real Time Financial Bilateral Transaction Congestion	55500-0037	-	-	-	-	-	-
Auction Revenue Rights Transaction Amount	55500-0058	(17,476.94)	(525,629.64)	(508,152.70)	(17,476.94)	(269,512.71)	(252,035.77)
Financial Transmission Rights Infeasible Uplift Amount	55500-0059	(120,188.98)	504,968.95	625,157.93	(120,188.98)	262,740.43	382,929.41
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	10,000.00	31,914.56	21,914.56	10,000.00	12,438.61	2,438.61
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(64,000.00)	(214,958.00)	(150,958.00)	(64,000.00)	(130,147.74)	(66,147.74)
Financial Transmission Rights Hourly Allocation	55500-0032	-	1,503,003.24	1,503,003.24	-	(983,701.19)	(983,701.19)
Financial Transmission Rights Monthly Allocation	55500-0033	-	(50,877.07)	(50,877.07)	-	(21,355.94)	(21,355.94)
Financial Transmission Rights Yearly Allocation	55500-0035	-	-	-	-	-	-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-	12,295.32	12,295.32	-	(20,045.88)	(20,045.88)
FTR Guarantee Uplift Amount	55500-0055	-	(17,322.77)	(17,322.77)	-	32,784.21	32,784.21
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	(74,296.07)	(74,296.07)	-	71,175.10	71,175.10
Financial Transmission Rights Transaction	55500-0034	-	-	-	-	-	-
Subtotal		284,278.56	9,676,407.56	9,392,128.99	219,778.99	2,258,693.31	2,038,914.31
RSG & Make Whole Payments							
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	22,000.00	57,183.55	35,183.55	22,000.00	21,826.51	(173.49)
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(7,000.00)	(5,280.18)	1,719.82	(7,000.00)	(7,736.93)	(736.93)
Real Time Price Volatility Make Whole Payment	55500-0057	(13,000.00)	(551.17)	12,448.83	(13,000.00)	(636.78)	12,363.22
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	42,000.00	72,303.60	30,303.60	42,000.00	18,519.79	(23,480.21)
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(13,000.00)	7,965.56	20,965.56	(13,000.00)	(614.27)	12,385.73
Subtotal		31,000.00	131,621.36	100,621.36	31,000.00	31,358.32	358.32
RNU & Misc Charges							
Real Time Miscellaneous	55500-0042	-	0.01	0.01	-	2,021.29	2,021.29
Real Time Net Inadvertent Distribution	55500-0044	7,000.00	(28,902.77)	(35,902.77)	7,000.00	(26,254.25)	(33,254.25)
Real Time Revenue Neutrality Uplift Amount	55500-0045	118,000.00	1,015,378.62	897,378.62	118,000.00	133,525.65	15,525.65
Real Time Uninstructed Deviation	55500-0048	-	-	-	-	-	-
Demand Response Allocation Uplift Amount	55500-0077	-	71,268.05	71,268.05	-	26,180.94	26,180.94
Day Ahead Ramp Capability Amount	55500-0079	(2,000.00)	(25.00)	1,975.00	(2,000.00)	(2.00)	1,998.00
Real Time Ramp Capability Amount	55500-0080	-	(193.63)	(193.63)	-	(296.64)	(296.64)
Real Time Schedule 49 Cost Distribution Amount	55500-0081	24,000.00	18,518.06	(5,481.94)	24,000.00	14,783.39	(9,216.61)
Subtotal		147,000.00	1,076,043.34	929,043.34	147,000.00	149,958.38	2,958.38
Grandfathered Charge Types							
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-	-	-	-	-	-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-	-	-	-	-	-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-	-	-	-	-	-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-	-	-	-	-	-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-	-	-	-	-	-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-
ASM Charge Types (12 Other)							
Day Ahead Regulation Amount	55500-0062	(37,000.00)	(71,384.94)	(34,384.94)	(37,000.00)	(102,792.10)	(65,792.10)
Day Ahead Spinning Reserve Amount	55500-0063	(38,000.00)	(34,443.51)	3,556.49	(38,000.00)	(42,389.07)	(4,389.07)
Day Ahead Supplemental Reserve Amount	55500-0064	-	(143.18)	(143.18)	-	-	-
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	-	-	-	-	-
Net Regulation Adjustment Amount	55500-0068	-	3,493.80	3,493.80	-	6,187.09	6,187.09
Real Time Regulation Amount	55500-0070	2,000.00	22,119.36	20,119.36	2,000.00	32,700.70	30,700.70
Regulation Reserve Cost Distribution Amount	55500-0071	33,000.00	47,800.04	14,800.04	33,000.00	35,911.84	2,911.84
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	17,000.00	30,428.83	13,428.83	17,000.00	38,775.89	21,775.89
Real Time Spinning Reserve Amount	55500-0072	5,000.00	8,621.23	3,621.23	5,000.00	(987.86)	(5,987.86)
Spinning Reserve Cost Distribution Amount	55500-0073	34,000.00	39,810.06	5,810.06	34,000.00	30,851.41	(3,148.59)
Real Time Supplemental Reserve Amount	55500-0074	-	304.80	304.80	-	(617.95)	(617.95)
Supplemental Reserve Cost Distribution Amount	55500-0075	9,000.00	5,115.55	(3,884.45)	9,000.00	5,156.60	(3,843.40)
Day-Ahead Short-Term Reserve Amount	55500-0082	-	-	-	-	(16,396.77)	(16,396.77)
Real-Time Short-Term Reserve Amount	55500-0083	-	-	-	-	3,696.07	3,696.07
Short-Term Reserve Cost Distribution Amount	55500-0084	-	-	-	-	22,343.78	22,343.78
Short-Term Reserve Deployment Failure Charge Amount	55500-0085	-	-	-	-	-	-
Subtotal		25,000.00	51,722.04	26,722.04	25,000.00	12,439.63	(12,560.37)
Grand Total		2,178,052.45	14,399,325.64	12,221,273.19	1,900,591.07	10,917,554.93	9,016,963.86

Minnesota Power
Treatment of Auction Revenue Rights (ARRs)
Docket No. E-015/M-05-277

Minnesota Power’s response to how the ARR process will be treated for retail and wholesale purposes:

[TRADE SECRET DATA BEGINS] [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] TRADE SECRET DATA ENDS]

Minnesota Power’s Self Scheduled FTRs from the Annual Allocation:

		Winter 20/21		Spring 2021		Summer 2021		Fall 2021		Winter 21/22	
Source	Sink	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak
[TRADE SECRET DATA HAS BEEN EXCISED]											
TRADE SECRET DATA HAS BEEN EXCISED]											

Minnesota Power’s FTRs purchased in the Annual Auction for the requested time period:

Annual FTR Purchases						
Source	Sink	Class Period	Season	Awarded FTRs	Clearing (\$/MW-Month)	Total Monthly Cost
[TRADE SECRET DATA HAS BEEN EXCISED]						
[TRADE SECRET DATA HAS BEEN EXCISED]						

Minnesota Power’s Total ARR/FTR revenues and costs for the requested time period:

Total ARR / FTR Revenues and Costs		
	Cost to hold FTRS	Revenue Generated from ARR/FTRs
Jan-21	\$128,347.75	(\$279,980.02)
Feb-21	\$182,519.02	\$194,950.08
Mar-21	\$285,905.28	(\$487,490.54)
Apr-21	\$278,394.35	(\$613,652.31)
May-21	\$244,003.95	\$5,761.35
Jun-21	\$599,417.91	(\$1,039,591.36)
Jul-21	\$600,048.79	(\$827,418.40)
Aug-21	\$599,520.63	(\$3,805,346.43)
Sep-21	\$691,488.80	(\$2,070,623.32)
Oct-21	\$716,248.32	(\$2,461,975.54)
Nov-21	\$466,025.20	\$16,879.32
Dec-21	\$350,224.22	(\$1,271,383.97)

Below is monthly detail of different MISO charge type costs included in the ARR/FTR Revenue and Cost Table. Charge types labeled "Cost" are included in the Cost to Hold FTRs calculation and charge types labeled "Revenue" are included in the Revenues Generated from ARRs/FTRs calculation.

Note: Charges/Credits are shown in the month in which they were recorded in Account 55500 of the General Ledger and included in the FAC recovery.

PUBLIC DOCUMENT
 TRADE SECRET DATA EXCISED

Charge Type		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
Financial Transmission Rights Market Administration Amount	Cost	2,861.68	3,055.36	2,968.96	4,047.04	2,918.16	3,447.68	4,078.56	3,550.40	3,116.16	3,016.08	3,437.76	3,870.08	40,367.92
Auction Revenue Rights Transaction Amount	Revenue	(57,905.38)	(57,905.38)	(103,415.41)	(103,415.41)	(103,415.41)	(502,863.86)	(502,863.86)	(502,863.86)	(525,629.64)	(525,629.64)	(525,629.64)	(269,512.71)	(3,781,050.20)
Financial Transmission Rights Annual Transaction Amount	Cost	64,837.53	64,837.53	205,009.39	205,009.39	205,009.39	566,873.03	566,873.03	566,873.03	504,968.95	504,968.95	504,968.95	262,740.43	4,222,969.60
Auction Revenue Rights Infeasible Uplift Amount	Cost	2,912.71	2,912.71	913.41	913.41	913.41	29,097.20	29,097.20	29,097.20	31,914.56	31,914.56	31,914.56	12,438.61	204,039.54
Auction Revenue Rights Stage 2 Distribution Amount	Revenue	(67,699.26)	(67,699.26)	(54,501.41)	(54,501.41)	(54,501.41)	(151,067.70)	(151,067.70)	(151,067.70)	(214,958.00)	(214,958.00)	(214,958.00)	(130,147.64)	(1,527,127.49)
Financial Transmission Rights Full Funding Guarantee Amount	Revenue	(20,330.45)	-	(2,264.65)	(1,066.99)	(375.57)	-	-	-	(51,305.96)	(105,859.36)	(21,574.90)	202,777.88	-
FTR Guarantee Uplift Amount	Revenue	19,286.82	-	1,831.81	1,504.65	423.92	-	-	-	70,323.96	100,831.91	34,313.23	(228,516.30)	-
Financial Transmission Rights Monthly Transaction Amount	Cost	57,735.83	111,713.42	77,013.52	68,424.51	35,162.99	-	-	-	151,489.13	176,348.73	(74,296.07)	71,175.10	674,767.16
Financial Transmission Rights Hourly Allocation Amount	Revenue	(148,490.91)	345,428.15	(315,091.70)	(440,695.35)	173,608.54	(383,156.36)	(171,225.18)	(3,060,647.11)	(1,325,767.35)	(1,665,483.38)	766,084.57	(615,792.35)	(6,841,228.43)
Financial Transmission Rights Monthly Allocation Amount	Revenue	(4,840.84)	(24,873.43)	(14,049.18)	(15,477.80)	(9,978.72)	(2,503.44)	(2,261.66)	(90,767.76)	(23,286.33)	(50,877.07)	(21,355.94)	(27,414.97)	(287,687.14)
Financial Transmission Rights Transaction Amount	Cost	-	-	-	-	-	-	-	-	-	-	-	-	-
Financial Transmission Rights Yearly Allocation Amount	Revenue	-	-	-	-	-	-	-	-	-	-	-	(202,777.88)	(202,777.88)
Costs of hold FTRs		128,347.75	182,519.02	285,905.28	278,394.35	244,003.95	599,417.91	600,048.79	599,520.63	691,488.80	716,248.32	466,025.20	350,224.22	5,142,144.22
Revenue Generated from ARR/FTRs		(279,980.02)	194,950.08	(487,490.54)	(613,652.31)	5,761.35	(1,039,591.36)	(827,418.40)	(3,805,346.43)	(2,070,623.32)	(2,461,975.54)	16,879.32	(1,271,383.97)	(12,639,871.14)

Negative = Revenue
 Positive = Cost / Exp

Plant Outages:

Identification of Forced Outages, Lessons Learned and Mechanism for Information Sharing

Docket No. E999/AA-10-884, dated April 6, 2012

Plant Outage Contingency Plans

Docket No. E999/AA-08-995, dated March 15, 2010

Annual Identification of Forced Outages and Lessons Learned

Our maintenance practices and reliability programs are constantly being evaluated to ensure continuous improvement of our employees' skills and work processes to improve equipment reliability. All of our craftspeople are required to be trained on precision maintenance as part of their apprenticeship. We also require classroom training for all of the operating staff for asset care and preservation. Those individuals are taught operational best practices for operating pumps, motors, valves etc. Since January 2011, over 60 employees at the leadership level – maintenance leads, operations and maintenance superintendents, maintenance planners, and engineers – have participated in Reliability University. Reliability University is a program that teaches students the best practices of equipment maintenance along with the tools needed to be proactive rather than reactive to ensure equipment reliability. Elements of Reliability University include condition monitoring, vibration analysis, system and components, troubleshooting, precision equipment installation and assembly, instrument and process variability and root cause failure analysis. Additionally, we have increased our expectations and requirements around specifications of new and rebuilt equipment and parts with enhanced use of overhaul specifications and visits to repair shops by engineers and technicians.

Our Outage Planning process continues to be a focal area. A systematic approach to outage planning with improved tools has resulted in projects safely and efficiently executed while ensuring equipment reliability. Outage duration is set based on project scope with project milestones identified, resources allocated, materials ordered, and safety plans in place. Automated reports allow for better coordination, communication, budget management, and analysis of work required. For example, inspection activities that can only be performed with the unit offline are identified so they can be scheduled as early as possible in an outage to allow time to complete work within the outage window.

We continue to implement a program called Operational Excellence. The focus of Operational Excellence is to teach Human Performance tools to employees (3 way

communication, Peer Checking, Labeling, Procedure Use and Adherence etc.) resulting in increased elimination of potential errors occurring in the field. In addition to the Human Performance tool usage, a “lessons learned” process is completed when an event does occur and those learnings are shared throughout the facilities.

Tube Leaks

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

- thermal fatigue
- soot blower erosion
- fly ash erosion
- chemical attack

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

Soot blower erosion occurs in areas where soot blowers are used to 'blow off' ash or slag which accumulates on boiler tubes. Soot blowers use high pressure steam or high pressure air to do the cleaning. The ash removal is necessary to improve heat transfer which improves boiler thermal efficiency. Common practices to mitigate soot blower erosion are to add a weld overlay (commonly called “pad welding”) to existing tubes, add tube shields which are essential sacrificial attachments to the tubes, changing soot blower media pressure (usually not an option) and tube replacement in the affected areas. The use of the soot blowers is essential in keeping the units on line. Coal composition can differ from mine to mine or even within the same mine. As we look to find the best low cost fuel blend for our customers, certain coals may cause more

fouling than others. The increased potential of this fouling requires both the frequency and duration of soot blowing to increase, which minimizes the buildup on the boiler tubes. We are increasing using higher alloy weld overlay to provide increased tube longevity.

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

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

Minnesota Power has a boiler reliability program which is very effective in proactively identifying areas of the boilers where tube leaks are likely to occur and minimizing that risk with proactive maintenance practices. The program uses a combination of visual inspections, non-destructive testing methods (NDT), tube sample analysis, tube failure history, and industry experiences to avoid forced outages due to unexpected tube leaks. Minnesota Power also has its own Boiler Weld Repair Program that ensures all applicable codes and standards are met when boiler repairs are performed.

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

- Boswell-3 boiler has 473,891 ft (89.7 miles) of varying diameter boiler tubes
- Boswell-4 boiler has 779,905 ft (147.6 miles) of varying diameter boiler tubes

The boiler tube surface area where a leak can occur is several hundred thousand square feet in either boiler.

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

Non Boiler related outages

Minnesota Power has a Generation Reliability Group that is dedicated to monitoring and improving the reliability of not only the boiler but also the rotating equipment. The group is comprised of boiler, turbine and pulverizer engineers/specialists as well as specialists in predictive maintenance technologies. They work on a daily basis with the operating and maintenance groups at all facilities to improve the daily operating practices, planning for work and repairs to occur in future outages and establishing 5 and 10 year maintenance plans.

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

Mechanism for Some Level of Information Sharing

Minnesota Power is open to sharing lessons learned on a generic basis with the other utilities on an annual basis.

However, the concept of sharing lessons learned is more attractive in theory than in practice. Each utility's generating units are unique (manufacturer, date of installation, fuel type and mixture, base loaded vs. cyclic loading etc.), as is each company's operation and maintenance practices. Furthermore, sharing best practices regarding planned outages over and above what companies have already described in public filings borders on releasing confidential information about outage planning and energy marketing. This could work to harm that utility's customers if it were made available to other parties, since those practices provide the utility its best protection in acquiring replacement energy at the lowest cost possible.

Minnesota Power will continue to provide information on forced outages and what steps, if any, could have helped in avoiding or alleviating outages.

Plant Outage Contingency Plans to address the following for the period of January 2021 through December 2021:

1. Identification for the period of January 2021 through December 2021 any and all contractors (and associated contracts) that increased replacement energy costs due to an extension of the plant outage days as a result of delays and/or lack of performance.

During this period, there were no delays or lack of performance by contractors identified which impacted the length of the outages and/or the replacement energy costs.

2. Please provide a narrative fully explaining the reasons for the delays and/or lack of performance for each of the contracts identified above.

Not applicable.

3. Please describe the lessons learned and the contingency plans developed by the Company to mitigate against future risk of delays or lack of performance, when contractors perform poorly and increase costs during plant outages.

Not applicable.

	YTD 2021			Jan-21			Feb-21			Mar-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 3	350	350		350	350		350	350		350	350	
Forced Days	24.0	14.3	(9.7)	2.0	0.0	(2.0)	2.0	1.9	(0.1)	2.0	2.3	0.3
Forced MWh's	199,151	96,552	(102,599)	16,914	0	(16,914)	15,277	9,930	(5,347)	16,914	11,372	(5,542)
Replacement MWh's	182,552	65,693	(116,859)	16,914	0	(16,914)	15,277	4,773	(10,504)	16,914	6,473	(10,441)
Purchase Price	[TRADE SECRET DATA BEGINS]											
Total Forced Cost	[TRADE SECRET DATA BEGINS]											
Unit Cost	[TRADE SECRET DATA BEGINS]											
Incremental Cost	(\$281,677.03)	\$770,749.31	\$1,052,426.35	\$128,793.29	\$0.00	(\$128,793.29)	\$51,190.42	(\$4,311.81)	(\$55,502.23)	(\$34,641.48)	(\$5,537.80)	\$29,103.68
Planned Days	28.0	36.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.3	(0.7)
Planned MWh's	235,200	278,089	42,889	0	0	0	0	0	0	42,000	19,660	(22,340)
Replacement MWh's	207,355	155,493	(51,862)	0	0	0	0	0	0	42,000	12,956	(29,044)
Purchase Price	[TRADE SECRET DATA BEGINS]											
Total Planned Cost	[TRADE SECRET DATA BEGINS]											
Unit Cost	[TRADE SECRET DATA BEGINS]											
Incremental Cost	(\$875,766.32)	\$3,234,507.79	\$4,110,274.11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	(\$86,019.99)	(\$62,573.47)	\$23,446.52
Total Outage Costs	[TRADE SECRET DATA BEGINS]											
Total Incremental Costs	(\$1,157,443.35)	\$4,005,257.10	\$5,162,700.45	\$128,793.29	\$0.00	(\$128,793.29)	\$51,190.42	(\$4,311.81)	(\$55,502.23)	(\$120,661.47)	(\$68,111.27)	\$52,550.20
	YTD 2021			Jan-21			Feb-21			Mar-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 4	464	464		464	464		464	464		464	464	
Forced Days	12.0	22.4	10.4	1.0	5.0	4.0	1.0	2.1	1.1	1.0	0.0	(1.0)
Forced MWh's	149,956	214,650	64,694	12,736	47,137	34,401	11,504	18,749	7,245	12,736	0	(12,736)
Replacement MWh's	137,458	163,849	26,392	12,736	32,025	19,289	11,504	12,409	905	12,736	0	(12,736)
Purchase Price	[TRADE SECRET DATA BEGINS]											
Total Cost	[TRADE SECRET DATA BEGINS]											
Unit Cost	[TRADE SECRET DATA BEGINS]											
Incremental Cost	(\$352,284.50)	\$2,613,570.86	\$2,965,855.35	\$94,682.03	\$22,740.69	(\$71,941.34)	\$35,253.98	\$8,004.12	(\$27,249.86)	(\$32,757.94)	\$0.00	\$32,757.94
Planned Days	61.0	82.1	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Planned MWh's	679,296	818,222	138,926	0	0	0	0	0	0	0	0	0
Replacement MWh's	424,625	452,635	28,010	0	0	0	0	0	0	0	0	0
Purchase Price	[TRADE SECRET DATA BEGINS]											
Total Cost	[TRADE SECRET DATA BEGINS]											
Unit Cost	[TRADE SECRET DATA BEGINS]											
Incremental Cost	(\$1,994,066.10)	\$3,180,684.46	\$5,174,750.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Outage Costs	[TRADE SECRET DATA BEGINS]											
Total Incremental Costs	(\$2,346,350.59)	\$5,794,255.31	\$8,140,605.90	\$94,682.03	\$22,740.69	(\$71,941.34)	\$35,253.98	\$8,004.12	(\$27,249.86)	(\$32,757.94)	\$0.00	\$32,757.94
Total Outage Costs	[TRADE SECRET DATA BEGINS]											
Total Incremental Costs	(\$3,503,793.94)	\$9,799,512.41	\$13,303,306.36	\$223,475.32	\$22,740.69	(\$200,734.63)	\$86,444.40	\$3,692.31	(\$82,752.09)	(\$153,419.41)	(\$68,111.27)	\$85,308.14

	Apr-21			May-21			Jun-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 3	350	350		350	350		350	350	
Forced Days	2.0	0.0	(2.0)	2.0	2.1	0.1	2.0	0.0	(2.0)
Forced MWh's	16,369	0	(16,369)	16,914	15,377	(1,537)	16,369	0	(16,369)
Replacement MWh's	8,527	0	(8,527)	11,432	10,658	(775)	16,369	0	(16,369)
Purchase Price									
Total Forced Cost									
Unit Cost									
Incremental Cost	(\$3,951.55)	\$0.00	\$3,951.55	(\$25,116.81)	\$63,178.21	\$88,295.02	(\$90,844.36)	\$0.00	\$90,844.36
Planned Days	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Planned MWh's	0	0	0	0	0	0	0	0	0
Replacement MWh's	0	0	0	0	0	0	0	0	0
Purchase Price									
Total Planned Cost									
Unit Cost									
Incremental Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Outage Costs									
Total Incremental Costs	(\$3,951.55)	\$0.00	\$3,951.55	(\$25,116.81)	\$63,178.21	\$88,295.02	(\$90,844.36)	\$0.00	\$90,844.36
	Apr-21			May-21			Jun-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 4	464	464		464	464		464	464	
Forced Days	1.0	0.0	(1.0)	1.0	0.0	(1.0)	1.0	6.0	5.0
Forced MWh's	12,325	0	(12,325)	12,736	0	(12,736)	12,325	64,239	51,914
Replacement MWh's	6,420	0	(6,420)	8,608	0	(8,608)	12,325	52,057	39,732
Purchase Price									
Total Cost									
Unit Cost									
Incremental Cost	(\$14,757.56)	\$0.00	\$14,757.56	(\$58,292.31)	\$0.00	\$58,292.31	(\$86,124.19)	\$967,126.99	\$1,053,251.18
Planned Days	29.0	29.1	0.1	27.0	31.0	4.0	0.0	17.3	17.3
Planned MWh's	322,944	290,493	(32,451)	300,672	303,806	3,134	0	178,229	178,229
Replacement MWh's	168,222	147,309	(20,913)	203,230	161,054	(42,176)	0	118,164	118,164
Purchase Price									
Total Cost									
Unit Cost									
Incremental Cost	(\$386,682.83)	\$354,692.95	\$741,375.79	(\$1,376,167.10)	\$588,159.82	\$1,964,326.92	\$0.00	\$1,607,570.31	\$1,607,570.31
Total Outage Costs									
Total Incremental Costs	(\$401,440.39)	\$354,692.95	\$756,133.35	(\$1,434,459.40)	\$588,159.82	\$2,022,619.23	(\$86,124.19)	\$2,574,697.30	\$2,660,821.49
Total Outage Costs									
Total Incremental Costs	(\$405,391.94)	\$354,692.95	\$760,084.89	(\$1,459,576.21)	\$651,338.03	\$2,110,914.25	(\$176,968.55)	\$2,574,697.30	\$2,751,665.85

	Jul-21			Aug-21			Sep-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 3	350	350		350	350		350	350	
Forced Days	2.0	3.5	1.5	2.0	1.3	(0.7)	2.0	0.0	(2.0)
Forced MWh's	16,914	25,989	9,075	16,914	9,882	(7,032)	16,369	0	(16,369)
Replacement MWh's	16,914	20,584		16,914	8,924	(7,990)	13,855	0	
Purchase Price									
Total Forced Cost									
Unit Cost									
Incremental Cost	(\$30,440.21)	\$237,457.63	\$267,897.83	(\$78,661.44)	\$75,272.20	\$153,933.64	(\$68,247.08)	\$0.00	\$68,247.08
Planned Days	0.0	0.0	0.0	0.0	0.0	0.0	21.0	14.2	(6.8)
Planned MWh's	0	0	0	0	0	0	176,400	113,675	(62,725)
Replacement MWh's	0	0		0	0	0	149,311	77,589	
Purchase Price									
Total Planned Cost									
Unit Cost									
Incremental Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	(\$735,462.46)	\$1,536,259.72	\$2,271,722.18
Total Outage Costs									
Total Incremental Costs	(\$30,440.21)	\$237,457.63	\$267,897.83	(\$78,661.44)	\$75,272.20	\$153,933.64	(\$803,709.54)	\$1,536,259.72	\$2,339,969.26
	Jul-21			Aug-21			Sep-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 4	464	464		464	464		464	464	
Forced Days	1.0	1.6	0.6	1.0	0.0	(1.0)	1.0	2.1	1.1
Forced MWh's	12,736	17,413	4,677	12,736	0	(12,736)	12,325	17,484	5,159
Replacement MWh's	12,736	14,105		12,736	0	(12,736)	10,432	14,136	3,704
Purchase Price									
Total Cost									
Unit Cost									
Incremental Cost	(\$31,471.33)	\$157,890.13	\$189,361.45	(\$70,014.26)	\$0.00	\$70,014.26	(\$63,765.21)	\$314,114.80	\$377,880.01
Planned Days	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Planned MWh's	0	0	0	0	0	0	0	0	0
Replacement MWh's	0	0		0	0	0	0	0	0
Purchase Price									
Total Cost									
Unit Cost									
Incremental Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Outage Costs									
Total Incremental Costs	(\$31,471.33)	\$157,890.13	\$189,361.45	(\$70,014.26)	\$0.00	\$70,014.26	(\$63,765.21)	\$314,114.80	\$377,880.01
Total Outage Costs									
Total Incremental Costs	(\$61,911.53)	\$395,347.75	\$457,259.29	(\$148,675.70)	\$75,272.20	\$223,947.90	(\$867,474.75)	\$1,850,374.52	\$2,717,849.28

	Oct-21			Nov-21			Dec-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 3	350	350		350	350		350	350	
Forced Days	2.0	1.6	(0.4)	2.0	1.7	(0.3)	2.0	0.0	(2.0)
Forced MWh's	16,914	9,716	(7,198)	16,369	14,286	(2,083)	16,914	0	(16,914)
Replacement MWh's	16,153	3,989		16,369	10,293		16,914	0	
Purchase Price	[REDACTED]								
Total Forced Cost	[REDACTED]								
	TRADE SECRET DATA ENDS]								
Unit Cost	[REDACTED]								
Incremental Cost	(\$54,652.22)	\$61,084.26	\$115,736.48	(\$76,928.12)	\$343,606.63	\$420,534.74	\$1,822.52	\$0.00	(\$1,822.52)
Planned Days	2.0	18.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0
Planned MWh's	16,800	144,753	127,953	0	0	0	0	0	0
Replacement MWh's	16,044	64,948		0	0		0	0	
Purchase Price	[REDACTED]								
Total Planned Cost	[REDACTED]								
	TRADE SECRET DATA ENDS]								
Unit Cost	[REDACTED]								
Incremental Cost	(\$54,283.87)	\$1,760,821.53	\$1,815,105.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Outage Costs	[REDACTED]								
Total Incremental Costs	(\$108,936.09)	\$1,821,905.79	\$1,930,841.88	(\$76,928.12)	\$343,606.63	\$420,534.74	\$1,822.52	\$0.00	(\$1,822.52)
	TRADE SECRET DATA ENDS]								
	Oct-21			Nov-21			Dec-21		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 4	464	464		464	464		464	464	
Forced Days	1.0	1.5	0.5	1.0	2.3	1.3	1.0	1.8	0.8
Forced MWh's	12,736	11,991	(745)	12,325	20,841	8,516	12,736	16,797	4,061
Replacement MWh's	12,163	10,301		12,325	16,182		12,736	12,633	
Purchase Price	[REDACTED]								
Total Cost	[REDACTED]								
	TRADE SECRET DATA ENDS]								
Unit Cost	[REDACTED]								
Incremental Cost	(\$52,887.38)	\$367,836.99	\$420,724.37	(\$67,435.80)	\$401,754.91	\$469,190.71	(\$4,714.54)	\$374,102.22	\$378,816.76
Planned Days	5.0	4.2	(0.8)	0.0	0.5	0.5	0.0	0.0	0.0
Planned MWh's	55,680	40,404	(15,276)	0	5,290	5,290	0	0	0
Replacement MWh's	53,174	21,308		0	4,800		0	0	
Purchase Price	[REDACTED]								
Total Cost	[REDACTED]								
	TRADE SECRET DATA ENDS]								
Unit Cost	[REDACTED]								
Incremental Cost	(\$231,216.17)	\$442,751.67	\$673,967.84	\$0.00	\$187,509.70	\$187,509.70	\$0.00	\$0.00	\$0.00
Total Outage Costs	[REDACTED]								
Total Incremental Costs	(\$284,103.54)	\$810,588.66	\$1,094,692.20	(\$67,435.80)	\$589,264.61	\$656,700.41	(\$4,714.54)	\$374,102.22	\$378,816.76
	TRADE SECRET DATA ENDS]								
Total Outage Costs	[REDACTED]								
Total Incremental Costs	(\$393,039.63)	\$2,632,494.45	\$3,025,534.08	(\$144,363.92)	\$932,871.24	\$1,077,235.15	(\$2,892.02)	\$374,102.22	\$376,994.25
	TRADE SECRET DATA ENDS]								

Generation Outage Detail

January 1, 2021 through December 31, 2021									
Unit	Event Type	Primary Reason for the Outage	Equivalent MWh lost (MP Only)	Start Date/Time of Actual Outage	End Date/Time of Actual Outage	Equipment or Condition that Resulted in the Outage	Description of Equipment Failure (including identified root cause)	Steps Taken to Alleviate Reoccurrence	Change in Energy
BEC 4	Unplanned Outage	Superheat Spray Isolation Valve Replacement	23,594	1/1/21 21:46	1/4/21 0:37	Superheat Spray Control Valve Manual Isolation Valve	A valve bonnet leak occurred. Condition worsened and repairs were needed prior to the next scheduled outage.	Valve was replaced instead of repaired to reduce probability of reoccurrence. Seven other valves will have their packing removed and replaced during the spring 2022 outage. Operator rounds are in place to detect leaks early so they can be tightened before an outage is required. A 5-year PM has been developed for all these valves to check the packing.	(\$24,939)
BEC 4	Unplanned Outage	Main Boiler Feed Pump 4B Repair	30,980	1/8/21 21:38	1/11/21 16:24	Main Boiler Feed Pump 4B	It was suspected that a thrust event was due to debris. No sign of foreign material or debris were found. External third party expert was consulted to help diagnose that there was a balance drum and thrust bearing repair that was required.	Balance drum was repaired until the spring outage. The pump was fully refurbished in the spring 2021 outage. Thorough inspection performed; the unit has a spare on site.	\$47,680
BEC 3	Unplanned Outage	Boiler SH Tube Leak	15,717	2/21/21 23:04	2/23/21 19:43	Superheat Tube Leak	A fatigue crack developed where the tube was welded to the header. This caused a tube leak at the superheat outlet header.	The next 5-year inspection was scheduled for 2022 but was moved up to fall 2021.	(\$4,312)
BEC 4	Unplanned Outage	Superheat Spray Isolation Valve Replacement	23,362	2/24/21 20:30	2/26/21 22:51	4B Superheat Spray Control Valve	Packing leaking due to an excessive gap between the pressure seal ring and bonnet coupled with bore wear in the bonnet. This wear resulted in a steam cutting the bonnet.	Repairs were made to bonnets and damaged components replaced. Both superheat spray control valves will be replaced during the 2022 spring outage. Operator rounds should detect leaks early. A yearly PM is now in place to check the packing.	\$8,004
BEC 3	Unplanned Outage	Boiler Waterwall Leak	10,120	3/1/21 23:27	3/3/21 4:12	Water Wall Tube Leak	Corrosion fatigue	The leak and area around the leak was cleaned up and inspected. Multiple indications were noted and repaired. MP to continue to monitor for corrosion fatigue.	(\$6,243)
BEC 3	Unplanned Outage	Boiler Reheat Tube Leak	8,448	3/18/21 20:52	3/19/21 20:52	Reheater Tube Leak	Reheat dissimilar metal weld failure.	Replaced all dissimilar metal welds in this section of the boiler during the fall 2021 outage.	\$705

Generation Outage Detail

Unit	Event Type	Primary Reason for the Outage	Equivalent MWh lost (MP Only)	Start Date/Time of Actual Outage	End Date/Time of Actual Outage	Equipment or Condition that Resulted in the Outage	Description of Equipment Failure (including identified root cause)	Steps Taken to Alleviate Reoccurrence	Change in Energy
BEC 3	Unplanned Outage	Boiler Reheat Tube Leak	17,254	5/13/21 21:44	5/15/21 22:45	Reheater Tube Leak	Reheat dissimilar metal weld failure.	The failed weld was replaced and tubes in the area of the failure were inspected and repaired from the consequential damage. All dissimilar metal welds in this section were replaced in fall 2021 outage.	\$63,178
BEC 4	Unplanned Outage	Generator Hydrogen Leak Repair	84,154	6/24/21 23:56	7/2/21 13:18	Hydrogen leak from turbine end gland seal	Turbine end gland seal was incorrectly sized, which allowed a leak path for hydrogen.	Disassembled turbine end of the generator, remeasured journal and seals. Manufactured a new gland seal. A reviewer signoff has been added to datasheets to verify critical fits.	\$1,125,017
BEC 3	Unplanned Outage	MBFP Electrical Fire	15,136	7/4/21 23:00	7/6/21 18:00	MBFP turbine caught on fire.	Bearing temperature indication wires melted and damaged insulation was saturated with small oil leak. It is believed that the oily insulation and prolonged high temperatures was the cause but it may have also been electrical.	Disassembled, cleaned and removed residual combustible material. Replaced damaged wiring and insulation. Verified no oil leaks and pump was returned to service. New insulation blankets have high-temperature rated, chemical resistant, Teflon fabric shell to prevent oily residue from equipment soaking into insulation.	\$171,347
BEC 3	Unplanned Outage	Boiler Reheat Tube Leak	13,775	7/6/21 18:00	7/8/21 9:08	Reheater Tube Leak	Reheat dissimilar metal weld failure.	Replace all dissimilar metal weld in this section of the boiler during the fall 2021 outage.	\$66,110
BEC 3	Unplanned Outage	Main Steam Safety Repair	10,519	8/6/21 23:40	8/8/21 5:33	Main Steam Safety valve lifted and would not re-seat.	Main steam safety did not re-seat. Valve seat was damaged and spring was weakened not allowing for it to reseat.	Authorized contractor rebuilt the safety valve.	\$75,272
BEC 4	Unplanned Outage	Condenser Tube Leak Repair	19,434	9/21/21 12:00	9/23/21 5:53	Condenser	Water chemistry contamination occurred as a result of a condenser tube leak	With unit offline, increased condenser hotwell water level to find leaking tube. Tube was then plugged. Circulating water isolation valves will be replaced in spring 2022 outage, allowing for future online repair.	\$194,205

Generation Outage Detail

Unit	Event Type	Primary Reason for the Outage	Equivalent MWh lost (MP Only)	Start Date/Time of Actual Outage	End Date/Time of Actual Outage	Equipment or Condition that Resulted in the Outage	Description of Equipment Failure (including identified root cause)	Steps Taken to Alleviate Reoccurrence	Change in Energy
BEC 4	Unplanned Outage	Boiler SH Tube Leak	19,921	9/30/21 15:56	10/2/21 10:52	SH Platen Pendent Dissimilar Metal Weld Failure	SH Platen Pendent Dissimilar Metal Weld Failed due to fatigue / cycling	Dissimilar metal weld (DMW) was cut out and replaced. All DMWs were inspected during the spring 2021 outage and inspections reviewed with third party contractor to ensure a defect was not missed. This DMW is a fusion weld, and because of the construction and way the weld is made it is inherently difficult to accurately inspect.	\$487,746
BEC 3	Unplanned Outage	Boiler Tube Leak	13,106	10/25/21 20:35	10/27/21 9:49	Water Wall Tube Leak	Corrosion fatigue	The damaged section of tube was cut out and replaced with new tube. Surrounding area was inspected for additional damage.	\$61,084
BEC 4	Unplanned Outage	Boiler SH Tube Leak	25,450	11/6/21 12:04	11/8/21 17:55	SH Platen Pendent Dissimilar Metal Weld Failure	SH Platen Pendent Dissimilar Metal Weld Failed due to fatigue / cycling	Dissimilar metal weld (DMW) was cut out and replaced. All DMWs were inspected during the spring 2021 outage. Inspections reviewed with third party contractor to ensure a defect was not missed. This DMW is a fusion weld, and because of the construction and way the weld is made it is inherently difficult to accurately inspect.	\$401,755
BEC 3	Unplanned Outage	Boiler Reheat Tube Leak	13,963	11/17/21 22:42	11/19/21 14:22	Reheater Tube Leak	A RH tube cracked due to fatigue possibly caused by long term overheating.	The damaged tube was sectioned out and replaced. Tubes in the immediate area were inspected for damage and signs of potential failure.	\$343,607
BEC 4	Unplanned Outage	Superheat Spray Valve Repair	9,906	12/15/21 21:03	12/16/21 18:24	4A Superheat Spray Control Valve Repair	Valve packing failed. Valve cannot be isolated for safe work while online.	Packing was replaced. Both superheat spray control valves will be replaced during spring 2022 outage. Operator rounds are in place to detect leaks early. A yearly PM is now in place to check the packing.	\$65,628
BEC 4	Unplanned Outage	Superheat Spray Valve Repair	8,762	12/25/21 19:19	12/26/21 16:39	4B Superheat Spray Block Valve Repair	Valve packing failed. Valve cannot be isolated for safe work while online.	Packing was replaced. Valve is scheduled to be replaced during spring 2022 maintenance outage. Operator rounds are in place to detect leaks early. A yearly PM is now in place for two superheat block valves to check torques when the unit is down.	\$308,474

Supplement Unplanned Outage Information

Boswell Unit 4 – Hydrogen Gland Repair

Outage Date: June 24, 2021

Background

At the time of the Generator Hydrogen Leak, the Boswell 4 Unit was undergoing its first Major Inspection since the turbine retrofit in 2010. Per the manufacturer's recommendations, the inspection was scheduled to have taken place in 2020, but due to the pandemic it was delayed one year. A Major Inspection is defined as one where all of the turbine sections (HP, IP, LP) are disassembled as well as the generator, exciter and valves. Auxiliary systems are also inspected including lube oil, seal oil, gland steam, etc.

The inspection process is documented on data sheets and includes hundreds of measurements. These data sheets document the as found and as left condition, describes repairs that were performed, and serves as a resource to plan the next inspection. In addition, they are reviewed by FM Global to show that good utility practice was used and that the unit is safe for operation.

The major role of the overhaul is to look at all of the internals of the turbine-generator (referred to as open/clean/close) and to address any known issues from operation. The open/clean/close comprises about 20 percent of the total project and the inspection process defines the other 80 percent.

With the knowledge that the next inspection is 10 years off, repair or replacement of out of specification components is performed. Some materials are on hand and others require 6-month lead times, in which case repair options are explored. All repair or replacement decisions are made to maintain the outage schedule, minimize replacement power costs and ensure long term unit reliability.

Startup and Discovery

The unit was started up after the spring outage. While working through water chemistry and other plant issues, Operations noted hydrogen gas pressure loss. There was an indication that the gas leakage was on the turbine end of the generator. Hydrogen is

used to cool the generator windings. While hydrogen presents hazards if not properly contained, its fluid properties make it an ideal cooling media for the generator windings. The turbine end seal oil pressure was abnormal and since all the valves on the seal oil skid had been removed and repaired by an outside specialist, Minnesota Power wanted to verify those repairs. The valves were adjusted but ruled out as a contributor. A plugged seal oil supply line was still possible but a more likely cause was a problem with the gland seal. Since little additional troubleshooting could be done with the unit online, it was determined that a unit outage was necessary.

Since the unit was running, it took three days to cool the unit to the point that oil could be shut off and the generator opened up. During those three days a number of tests were done to try and pinpoint the problem to be on the turbine end, the generator end or both. Those tests again pointed to the turbine end only.

After three days, the turbine end gland was disassembled and the seal removed. All of the measurements that had been taken during the original inspection were retaken (rotor diameter, seal diameter, width, and slot width). The problem was quickly discovered that the measured shaft diameter was different than what was recorded from the initial inspection. The result is that the seal manufactured during the scheduled inspection had a clearance that was 0.025"-0.030" greater than specification. A new seal was procured from another source and machined to the correct clearance. The generator was reassembled and an air test performed. The leakage was well within the acceptable limits.

Learnings

During the course of an inspection, measurements play a critical role in determining the repair plan. There are hundreds of measurements made with micrometers down to 0.001". Some measurements are associated with tighter tolerances than others. For example, the gland slot clearance is 0.0075"-0.009" while the seal clearance is 0.050"-0.058", which shows the slot clearance needs to be more precise.

Actions to Prevent Reoccurrence

There are a number of ways that errors can occur. For example, the person making the measurement can measure or record incorrectly, the OD-ID clearance calculation could be incorrect, or the wrong design specification could have been used. To reduce the likelihood of error, the Company is modifying the data sheets to add a required “verified” signoff. This will ensure the verification practices used are consistently applied.

The verification may vary. For example, it may include an independent verification of the measurement or calculated value, or a comparison to previous “as left” data, depending on the type of data being verified.

In closing, Minnesota Power has performed the technical direction of turbine overhauls with internal resources for the past 35 years. Over the course of that timeframe about 75 overhauls have been performed on Minnesota Power turbines as well as those for area industrial and municipal customers. Specialty outside engineers are still used when required for blading repairs, generator testing, as well as other areas that may come up during an inspection.

Boswell Unit 4 - Superheat Tube Leaks

Outage Dates: September 30, 2021 and November 6, 2021

In 2019, Minnesota Power performed an extensive evaluation to determine how to address (Dissimilar Metal Weld (DMW) failures. Several options were evaluated, including inspection of all DMW’s, complete pendent replacement, or DMW replacement.

The DMW’s in the platen pendant section of the BEC 4 boiler are fusion welded. This is the only section in any of Minnesota Power’s boilers that have this type of weld. Due to their construction they can fail due to lack of fusion. This lack of fusion can be difficult to find, even with Ultrasonic Phased Array Testing (UTPA), because of the construction of the weld joint. This joint is made by pressing the two tubes together and spinning them. The heat and pressure forms the weld. This was part of the reason Minnesota Power evaluated replacement versus inspection. However, replacement is considerably more expensive and the failure data did not suggest that replacement was needed.

Minnesota Power made the decision to repair in place the DMW's in BEC 4 rather than replace them. This option was chosen considering safety, risk, cost and reliability.

In the spring of 2021, all 2,304 DMW welds were inspected and repairs completed as needed. Inspection methods included UTPA, Dye Penetrant, and Visual. This work included more than 5,000 labor hours for inspection and \$90,000 in third party inspection costs. Of the 2,304 valves, 768 were fusion-type welds in the superheat platen pendants.

Based on the inspection, Minnesota Power replaced one DMW in the reheat section of the boiler. There were three small indications noted in the superheat sections and all three were evaluated and deemed suitable for continued use. Minnesota Power's third party contractor, Theilsch, reviewed the records and confirmed the three noted in the report and verified no other indications were noted.

Since the inspection, Minnesota Power had two DMW's fail in the superheat platen pendants, which resulted in the 9/30/2021 and 11/6/2021 outages. The two failures were not any of the welds that had the indications mentioned above. The other DMW's throughout the boiler are of a traditional weld construction and defects are more easily identified utilizing UTPA and other Nondestructive evaluation (NDE) methods. The risk of additional DMW failures for these welds is much lower.

Minnesota Power could replace all the DMW's in the superheat platen pendants or the entire set of pendants to address other potential concerns to lower the unit's risk of failure. The Company continues to evaluate the failure and inspection data as the energy market changes and will consider replacement of the fusion DMW welds if prudent for the customer. The balance between replacement energy costs and additional investment for reliability is a continuous process.

**Annual and Daily Ancillary Services Market
Charges and Summary**
January 2021 through December 2021

Overview

Minnesota Power has been participating in Midcontinent ISO's (MISO) Ancillary Service Market (ASM) since it started on January 6, 2009. Since market start, Minnesota Power has not seen any major changes to operation or clearing our units for energy in the market. We have had some additional opportunities in the ASM to optimize generation portfolio revenues by providing regulation and spinning reserve without creating a negative impact on available energy necessary to meet customer needs.

Spinning Reserves

Currently, Minnesota Power has 6 generating resources that are qualified to supply energy, regulation, and spinning reserves service for MISO. Under normal operating conditions Minnesota Power has the potential of carrying approximately 76 MW of spinning reserves above the cruise operating level on these generation facilities without reducing energy available for customers. Prior to the ASM, Minnesota Power's share of the spinning reserves obligation was 21 MW. Under ASM, Minnesota Power can currently clear up to approximately 10 MW of spinning reserves on thermal generation without impacting energy availability. The additional ancillary service revenues reduce overall customer costs because the spinning reserve revenues are allocated to the FAC through our MISO allocation process.

The ASM has also added value for customers when generating units have backed down to minimum generation levels due to low energy prices. The generators can be backed down and still provide spinning reserves at the lower operating levels. MISO could also back down generation to acquire the market's required spinning reserves, however to date Minnesota Power's thermal generators have been almost exclusively selected to supply energy and have not been backed down to supply spinning reserves.

Including ASM charge type impact only, MISO's Spinning Reserves process had a net gain of \$141,566.24 for January 2021 through December 2021. The Spinning Reserve costs and revenues are provided in Table 6-A.

Supplemental Reserves

Minnesota Power's cost allocation for supplemental reserves was \$147,588.82 for January 2021 through December 2021. Prior to the ASM, Minnesota Power utilized interruptible loads at our large power customers to cover our supplemental reserves requirements. Due to low prices for this product under ASM, Minnesota Power has elected not to offer MISO supplemental reserves from our large industrial customers because the benefit is too small for the risk it provides to our customers. The impact to our customers due to lost production if interrupted for deployment of supplemental reserves greatly exceeds the cost of purchasing supplemental reserves from MISO. Minnesota Power will continue to monitor prices and work with customers as conditions change to see if supplying additional supplemental reserves is appropriate in the future. The Supplemental Reserve costs and revenues are provided in Table 6-A.

Regulation

Prior to ASM, Minnesota Power scheduled approximately 8 MW of regulation on our system on an hourly basis to meet Balancing Authority control performance criteria requirements. Under ASM, Minnesota Power units are only selected by MISO for regulation when it is cost effective. Most of the time our units are cleared for energy instead of being held back to provide the 8 MW we used to reserve for regulation. Under ASM, due to regulation clearing and our ability to purchase affordable regulation service, we have more economic energy available from our low cost generation facilities to serve our customers. Including ASM charge type impact only, MISO's Regulation process had a net gain of \$126,676.92 for January 2021 through December 2021. The Regulation costs and revenues are provided in Table 6-A.

ASM Charge Summary

Operation in the ASM market has been smooth and there continues to be a positive economic benefit for Minnesota Power's customers. We are now able to maximize the capabilities of our units to a greater extent, which ultimately has led to greater operational efficiencies for Minnesota Power. We have developed many tools and reports to track the benefit of the ASM on a unit by unit and day by day basis. Our overall strategy is to continue to develop strategies in the ASM that have a positive impact for our customers.

Minnesota Power reviews all MISO charges and credits including ASM charge types on a daily basis. Table 6-A provides the January 2021 through December 2021 summary of ASM hourly charges which had a net loss of \$213,732.42. Minnesota Power allocates all ASM charges in the same manner as it has allocated MISO Day 2 charge types – on a per MWh approach netting costs and benefits of the various charges. During January 2021 through December 2021, a net loss of \$157,649.33 was allocated to the Retail FCA.

Table 6-B provides a summary of January 2021 through December 2021 hourly MWh related to ASM products. The table provides Minnesota Power's net position for each of the three ASM products which indicate that Minnesota Power was a net buyer of Regulation Service and Spinning and Supplemental Reserves for January 2021 through December 2021.

Schedule 17 Costs

MISO took on additional responsibilities with the start of the ASM and related to this increased systems responsibilities and analysis; additional costs were incurred at MISO. These costs were recovered from Market Participants including Minnesota Power through increased Schedule 17 charges. Table 6-C provides a summary of the Schedule 17 costs before and after the start of ASM. Prior to the start of ASM, Schedule 17 rates averaged \$0.07223 for an average monthly billing of \$140,922.50 per month. For January 2021 through December 2021, the Schedule 17 rate averaged \$0.08240 for an average monthly billing of \$164,529.73.

Daily Detail

Table 6-D provides the daily details supporting the monthly and quarterly benefits shown in Table 6-A. For the reporting period, 334 days or 92 percent show a net cost. With the exception of 107 days, the cost was not caused by Contingency Reserve Deployment Failure Charges (CRDFC) or Real Time Excessive Deficient Energy Deployment Charges (EDED). The cost appears to be caused by a reduction in cleared ASM products. Fewer MWh of Regulation, Spinning and Supplemental reserves were supplied by Minnesota Power during the current reporting period as compared to the prior reporting period.

Net costs can be caused by various factors, including but not limited to: the amount of energy cleared at each unit, the amount of reserves cleared, reserve clearing price, reserve distribution costs, and load ratio share. Most of these factors are out of Minnesota Power's control.

Contingency Reserve Deployment Failure Charge (CRDFC)

For the period of January 2021 through December 2021, Minnesota Power incurred \$293.11 of CRDFC. This charge occurred on one operating day as shown in Table 6-E. The shortfall MWh totaled of 2.7 for an average cost of \$108.56 per MWh of shortfall.

During all other CRD events, Minnesota Power's generating units responded to the reserve deployments; however, in this instance Minnesota Power fell short of delivering 100 percent of the energy requested.

Real Time Excessive Deficient Energy Deployment Charge Amount (EDED)

For the period of January 2021 through December 2021, Minnesota Power incurred \$325,201.91 in EDED as shown in Table 6-D. The majority of the instances when EDED occurs are from Failure Mileage Charge and Flag instances which are when a unit fails a Regulation Mileage Performance Test for 4 consecutive intervals within one hour.

Table 6-A: Summary of ASM Charge Types

	Jan-21	Feb-21	Mar-21	1st Quarter 2021 Total	Apr-21	May-21	Jun-21	2nd Quarter 2021 Total	Jul-21	Aug-21	Sep-21	3rd Quarter 2021 Total	Oct-21	Nov-21	Dec-21	4th Quarter 2021 Total	2021 Total
Day Ahead Regulation Amount	(110,158.77)	(71,145.60)	(102,561.70)	\$ (283,866.07)	(24,625.40)	(23,164.44)	(41,336.48)	\$ (89,126.32)	(64,485.90)	(93,335.97)	(45,364.08)	\$ (203,185.95)	(42,108.14)	(73,648.76)	(103,891.12)	\$ (219,648.02)	\$ (795,826.36)
Real Time Regulation Amount	6,802.05	(19,874.50)	13,484.86	\$ 412.41	10,115.71	10,424.85	9,794.73	\$ 30,335.29	6,670.72	16,085.34	17,986.70	\$ 40,742.76	5,617.25	23,928.02	34,450.47	\$ 63,995.74	\$ 135,486.20
Regulation Cost Distribution Amount	37,369.83	63,082.68	41,764.54	\$ 142,217.05	42,997.79	43,923.01	39,765.21	\$ 126,686.01	43,998.16	39,006.20	43,943.54	\$ 126,947.90	53,321.58	45,781.61	38,709.09	\$ 137,812.28	\$ 533,663.24
Regulation SubTotal	\$ (65,986.89)	\$ (27,937.42)	\$ (47,312.30)	\$ (141,236.61)	\$ 28,488.10	\$ 31,183.42	\$ 8,223.46	\$ 67,894.98	\$ (13,817.02)	\$ (38,244.43)	\$ 16,566.16	\$ (35,495.29)	\$ 16,830.69	\$ (3,939.13)	\$ (30,731.56)	\$ (17,840.00)	\$ (126,676.92)
Day Ahead Spinning Reserve Amount	(23,951.60)	(41,112.34)	(52,991.50)	\$ (118,055.44)	(46,327.65)	(72,189.45)	(71,950.79)	\$ (190,467.89)	(70,708.88)	(78,596.28)	(84,337.06)	\$ (233,642.22)	(70,162.53)	(42,925.20)	(44,594.90)	\$ (157,682.63)	\$ (699,848.18)
Real Time Spinning Reserve Amount	4,047.35	18,843.17	12,556.31	\$ 35,446.83	15,622.72	(1,195.48)	15,297.14	\$ 29,724.38	(3,359.75)	(9,661.69)	(19,663.33)	\$ (32,684.77)	1,264.52	7,070.34	(2,153.65)	\$ 6,181.21	\$ 38,667.65
Spinning Reserve Cost Distribution Amount	19,963.47	55,428.59	41,999.93	\$ 117,391.99	45,977.50	43,122.95	44,237.76	\$ 133,338.21	50,088.06	41,428.02	39,870.75	\$ 131,386.83	63,760.67	41,941.12	31,795.47	\$ 137,497.26	\$ 519,614.29
Spinning Reserve SubTotal	\$ 59.22	\$ 33,159.42	\$ 1,564.74	\$ 34,783.38	\$ 15,272.57	\$ (30,261.98)	\$ (12,415.89)	\$ (27,405.30)	\$ (23,980.57)	\$ (46,829.95)	\$ (64,129.64)	\$ (134,940.16)	\$ (5,137.34)	\$ 6,086.26	\$ (14,953.08)	\$ (14,004.16)	\$ (141,566.24)
Day Ahead Supplemental Reserve Amount	(0.16)	(9,676.00)	(12.00)	\$ (9,688.16)	(264.74)	-	(427.36)	\$ (692.10)	(399.82)	(4.68)	(161.40)	\$ (565.90)	(153.00)	-	-	\$ (153.00)	\$ (11,099.16)
Real Time Supplemental Reserve Amount	(5.79)	2,527.82	8.49	\$ 2,530.52	110.09	(48.53)	(4,404.84)	\$ (4,343.28)	(1,398.22)	(1,092.72)	(407.58)	\$ (2,898.52)	(652.88)	(64.71)	(490.50)	\$ (1,208.09)	\$ (5,919.37)
Supplemental Reserve Cost Distribution Amount	2,869.41	69,967.90	4,371.23	\$ 77,208.54	10,098.12	4,265.83	21,133.80	\$ 35,497.75	15,031.37	9,185.38	8,138.78	\$ 32,355.53	8,673.93	5,607.96	5,263.64	\$ 19,545.53	\$ 164,607.35
Supplemental Reserve SubTotal	\$ 2,863.46	\$ 62,819.72	\$ 4,367.72	\$ 70,050.90	\$ 9,943.47	\$ 4,217.30	\$ 16,301.60	\$ 30,462.37	\$ 13,233.33	\$ 8,087.98	\$ 7,569.80	\$ 28,891.11	\$ 7,868.05	\$ 5,543.25	\$ 4,773.14	\$ 18,184.44	\$ 147,588.82
Contingency Reserve Deployment Failure Charge Amount	-	-	-	\$ -	-	-	293.11	\$ 293.11	-	-	-	\$ -	-	-	-	\$ -	\$ 293.11
Real Time Excessive Deficient Energy Deployment Charge Amount	48,259.64	42,339.61	52,009.38	\$ 142,608.63	6,662.01	5,779.08	13,734.80	\$ 26,175.89	25,156.05	28,738.72	15,006.19	\$ 68,900.96	17,812.13	31,937.97	37,766.33	\$ 87,516.43	\$ 325,201.91
Net Regulation Adjustment Amount	128.45	(2,378.69)	971.71	\$ (1,278.53)	140.09	482.93	(1,102.08)	\$ (479.06)	(683.84)	937.35	(182.41)	\$ 71.10	1,755.17	3,538.04	5,285.02	\$ 10,578.23	\$ 8,891.74
Other Charge SubTotal	\$ 48,388.09	\$ 39,960.92	\$ 52,981.09	\$ 141,330.10	\$ 6,802.10	\$ 6,262.01	\$ 12,925.83	\$ 25,989.94	\$ 24,472.21	\$ 29,676.07	\$ 14,823.78	\$ 68,972.06	\$ 19,567.30	\$ 35,476.01	\$ 43,051.35	\$ 98,094.66	\$ 334,386.76
Total	\$ (14,676.12)	\$ 108,002.64	\$ 11,601.25	\$ 104,927.77	\$ 60,506.24	\$ 11,400.75	\$ 25,035.00	\$ 96,941.99	\$ (92.05)	\$ (47,310.33)	\$ (25,169.90)	\$ (72,572.28)	\$ 39,128.70	\$ 43,166.39	\$ 2,139.85	\$ 84,434.94	\$ 213,732.42

Table 6-B: Summary of MWh of ASM products Purchased and Supplied

	Jan-21	Feb-21	Mar-21	1st Quarter 2021 Total	Apr-21	May-21	Jun-21	2nd Quarter 2021 Total	Jul-21	Aug-21	Sep-21	3rd Quarter 2021 Total	Oct-21	Nov-21	Dec-21	4th Quarter 2021 Total	2021 Total
Total MISO Reg Procured (MWh)	294,521.53	266,448.78	295,183.51	856,153.82	285,506.96	294,588.35	285,614.33	865,709.64	295,555.92	294,877.67	285,570.64	876,004.23	294,728.44	285,596.62	295,203.37	875,528.43	3,473,396.12
MP Share of Reg Procured by MISO	5,173.81	4,567.82	5,609.31	15,350.94	5,321.54	5,313.66	4,412.91	15,048.11	4,634.25	4,283.69	4,806.96	13,724.90	5,276.08	5,271.10	5,440.82	15,988.00	60,111.95
MP Supplied Reg Volume	11,407.90	6,298.10	11,889.20	29,595.20	2,270.20	1,964.70	4,258.20	8,493.10	6,149.10	8,213.20	3,450.30	17,812.60	3,418.20	6,345.80	8,547.80	18,311.80	74,212.70
MP Net Buyer or (Seller) of Regulation	(6,234.09)	(1,730.28)	(6,279.89)	(14,244.26)	3,051.34	3,348.96	154.71	6,555.01	(1,514.85)	(3,929.51)	1,356.66	(4,087.70)	1,857.88	(1,074.70)	(3,106.98)	(2,323.80)	(14,100.75)
Total MISO Spin Procured (MWh)	680,872.94	723,460.79	680,680.39	2,085,014.12	662,021.11	682,974.29	690,080.06	2,035,075.46	694,763.07	706,912.45	673,414.46	2,075,089.98	690,548.77	671,732.92	686,414.76	2,048,696.45	8,243,876.01
MP Share of Spin Procured by MISO	11,984.88	12,223.76	12,963.70	37,172.34	12,373.37	12,371.29	10,645.36	35,390.02	10,905.95	10,298.69	11,409.44	32,614.08	12,410.14	12,424.02	12,675.29	37,509.45	142,685.89
MP Supplied Spin Volume	16,108.30	14,871.00	16,986.10	47,965.40	13,519.90	22,343.80	19,022.90	54,886.60	15,373.90	18,229.00	22,175.20	55,778.10	12,061.00	12,670.00	17,001.60	41,732.60	200,362.70
MP Net Buyer or (Seller) of Spinning Reserves	(4,123.42)	(2,647.24)	(4,022.40)	(10,793.06)	(1,146.53)	(9,972.51)	(8,377.54)	(19,496.58)	(4,467.95)	(7,930.31)	(10,765.76)	(23,164.02)	349.14	(245.98)	(4,326.31)	(4,223.15)	(57,676.81)
Total MISO Supp Procured (MWh)	823,242.64	628,201.54	825,087.41	2,276,531.59	794,157.33	823,982.04	761,087.63	2,379,227.00	806,547.13	798,948.13	782,178.77	2,387,674.03	816,166.19	789,163.33	817,086.95	2,422,416.47	9,465,849.09
MP Share of Supp Procured by MISO	14,494.93	10,994.06	15,723.43	41,212.42	14,859.91	14,931.51	11,882.65	41,674.07	12,733.97	11,685.23	13,196.26	37,615.46	14,677.59	14,596.51	15,095.95	44,370.05	164,872.00
MP Supplied Supp Volume	-	-	50.00	50.00	490.00	-	4.00	494.00	-	-	-	-	627.80	-	-	627.80	1,171.80
MP Net Buyer or (Seller) of Supplemental Reserves	14,494.93	10,994.06	15,673.43	41,162.42	14,369.91	14,931.51	11,878.65	41,180.07	12,733.97	11,685.23	13,196.26	37,615.46	14,049.79	14,596.51	15,095.95	43,742.25	163,700.20

Negative numbers indicate a payment from MISO
Positive numbers indicate a charge from MISO

Table 6-C: Comparison of MISO Schedule 17 Rates and Amounts before and after the start of the ASM Market

Monthly Average Schedule 17	Amount	Rate per MWh
April 2005 through December 2008	\$ 140,922.50	\$ 0.07223
January 2021 through December 2021	\$ 164,529.73	\$ 0.08240
Average Monthly Increase	\$ 23,607.23	\$ 0.01017

Table 6-D: ASM Charge Daily Detail / CRDFC / EDEDC

Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
1/1/2021	(3,815.28)	(58.31)	1,101.95	\$ (2,771.64)	(499.99)	208.44	478.42	\$ 186.87	-	-	91.72	\$ 91.72	-	2,383.17	24.10	\$ 2,407.27	\$ (85.78)
1/2/2021	(2,412.20)	(146.70)	1,214.51	\$ (1,344.39)	(302.72)	167.90	481.10	\$ 346.28	-	-	94.86	\$ 94.86	-	1,819.70	31.09	\$ 1,850.79	\$ 947.54
1/3/2021	(2,390.14)	159.81	1,175.82	\$ (1,054.51)	(337.62)	163.70	498.85	\$ 324.93	-	(0.05)	99.39	\$ 99.34	-	1,402.93	34.35	\$ 1,437.28	\$ 807.04
1/4/2021	(2,740.82)	339.72	1,267.03	\$ (1,134.07)	(522.79)	540.68	540.59	\$ 558.48	-	-	87.95	\$ 87.95	-	1,871.66	(3.01)	\$ 1,868.65	\$ 1,381.01
1/5/2021	(4,923.52)	633.11	1,254.45	\$ (3,035.96)	(655.39)	270.20	587.31	\$ 202.12	(0.16)	(0.98)	91.71	\$ 90.57	-	2,013.52	105.05	\$ 2,118.57	\$ (624.70)
1/6/2021	(5,439.48)	316.03	1,284.08	\$ (3,839.37)	(1,010.88)	235.70	733.31	\$ (41.87)	-	(1.78)	92.66	\$ 90.88	-	1,861.12	(114.90)	\$ 1,746.22	\$ (2,044.14)
1/7/2021	(3,888.85)	(855.72)	1,331.98	\$ (3,412.59)	(635.03)	105.46	844.90	\$ 315.33	-	-	101.20	\$ 101.20	-	1,328.98	12.07	\$ 1,341.05	\$ (1,655.01)
1/8/2021	(3,180.15)	405.02	1,314.11	\$ (1,461.02)	(637.20)	19.75	1,014.62	\$ 397.17	-	-	102.83	\$ 102.83	-	912.55	(145.56)	\$ 766.99	\$ (194.03)
1/9/2021	-	-	1,269.11	\$ 1,269.11	(274.63)	96.24	440.68	\$ 262.29	-	-	96.59	\$ 96.59	-	-	-	\$ -	\$ 1,627.99
1/10/2021	(96.62)	(55.61)	1,354.21	\$ 1,201.98	(342.15)	(107.49)	604.34	\$ 154.70	-	(0.44)	95.23	\$ 94.79	-	5.47	5.39	\$ 10.86	\$ 1,462.33
1/11/2021	(163.04)	(815.29)	1,290.58	\$ 312.25	(373.64)	47.65	533.40	\$ 207.41	-	-	92.32	\$ 92.32	-	508.79	33.14	\$ 541.93	\$ 1,153.91
1/12/2021	(4,184.14)	1,208.50	1,182.88	\$ (1,792.76)	(737.37)	62.05	668.73	\$ (6.59)	-	(0.13)	85.31	\$ 85.18	-	1,717.70	54.64	\$ 1,772.34	\$ 58.17
1/13/2021	(4,408.96)	795.80	1,085.29	\$ (2,527.87)	(534.00)	144.98	385.30	\$ (3.72)	-	(0.46)	81.10	\$ 80.64	-	2,023.52	193.80	\$ 2,217.32	\$ (233.63)
1/14/2021	(4,046.78)	2,388.04	1,251.02	\$ (407.72)	(816.21)	214.44	454.77	\$ (147.00)	-	(0.07)	85.80	\$ 85.73	-	341.83	103.61	\$ 445.44	\$ (23.55)
1/15/2021	(3,388.27)	2,016.80	1,208.59	\$ (162.88)	(901.39)	97.27	674.01	\$ (130.11)	-	-	89.69	\$ 89.69	-	67.75	4.90	\$ 72.65	\$ (130.65)
1/16/2021	(3,940.44)	487.22	1,175.30	\$ (2,277.92)	(526.00)	53.31	479.95	\$ 7.26	-	-	91.96	\$ 91.96	-	1,459.91	(166.05)	\$ 1,293.86	\$ (884.84)
1/17/2021	(3,430.93)	978.50	992.22	\$ (1,460.21)	(310.16)	121.06	378.17	\$ 189.07	-	-	96.78	\$ 96.78	-	1,117.51	364.52	\$ 1,482.03	\$ 307.67
1/18/2021	(3,097.28)	(36.99)	1,053.85	\$ (2,080.42)	(548.70)	(94.65)	736.20	\$ 92.85	-	-	91.72	\$ 91.72	-	1,362.83	(217.78)	\$ 1,145.05	\$ (750.80)
1/19/2021	(2,477.76)	1,157.23	1,061.29	\$ (259.24)	(482.76)	(71.63)	604.95	\$ 50.56	-	(1.71)	90.10	\$ 88.39	-	117.61	10.28	\$ 127.89	\$ 7.60
1/20/2021	(4,093.87)	504.29	1,142.48	\$ (2,447.10)	(463.36)	266.70	338.72	\$ 142.06	-	-	87.55	\$ 87.55	-	1,443.77	124.73	\$ 1,568.50	\$ (648.99)
1/21/2021	(3,502.02)	1,572.60	909.99	\$ (1,019.43)	(762.63)	211.66	572.57	\$ 21.60	-	-	89.63	\$ 89.63	-	1,123.90	119.25	\$ 1,243.15	\$ 334.95
1/22/2021	(4,574.71)	(184.63)	1,226.90	\$ (3,532.44)	(1,033.48)	(20.24)	1,077.44	\$ 23.72	-	(0.02)	95.76	\$ 95.74	-	2,319.79	25.38	\$ 2,345.17	\$ (1,067.81)
1/23/2021	(4,526.05)	(42.38)	1,281.10	\$ (3,287.33)	(915.33)	(129.94)	815.20	\$ (230.07)	-	-	93.42	\$ 93.42	-	2,198.60	73.64	\$ 2,272.24	\$ (1,151.74)
1/24/2021	(4,383.11)	(289.24)	1,159.03	\$ (3,513.32)	(875.01)	(226.78)	588.17	\$ (513.62)	-	(0.01)	92.70	\$ 92.69	-	1,542.27	403.90	\$ 1,946.17	\$ (1,988.08)
1/25/2021	(4,358.58)	218.12	1,215.76	\$ (2,924.70)	(843.85)	(406.16)	745.76	\$ (504.25)	-	(0.09)	98.97	\$ 98.88	-	2,436.24	142.34	\$ 2,578.58	\$ (751.49)
1/26/2021	(4,473.36)	39.82	1,151.11	\$ (3,282.43)	(1,578.85)	174.57	832.04	\$ (572.24)	-	(0.05)	94.84	\$ 94.79	-	2,221.24	(295.36)	\$ 1,925.88	\$ (1,834.00)
1/27/2021	(3,123.37)	(3,425.46)	1,398.98	\$ (5,149.85)	(2,115.27)	161.60	1,121.58	\$ (832.09)	-	-	100.61	\$ 100.61	-	3,979.39	(164.60)	\$ 3,814.79	\$ (2,066.54)
1/28/2021	(5,255.85)	(433.86)	1,218.99	\$ (4,470.72)	(1,167.40)	27.56	731.07	\$ (408.77)	-	-	87.12	\$ 87.12	-	2,024.55	(206.08)	\$ 1,818.47	\$ (2,973.90)
1/29/2021	(4,878.42)	116.98	1,313.78	\$ (3,447.66)	(1,465.82)	1,004.93	519.09	\$ 58.20	-	-	89.28	\$ 89.28	-	1,793.96	(355.90)	\$ 1,438.06	\$ (1,862.12)
1/30/2021	(4,727.15)	(314.93)	1,257.14	\$ (3,784.94)	(1,243.94)	458.29	792.55	\$ 6.90	-	-	89.49	\$ 89.49	-	2,484.02	(70.94)	\$ 2,413.08	\$ (1,275.47)
1/31/2021	(4,237.62)	123.58	1,226.30	\$ (2,887.74)	(1,038.03)	250.10	689.68	\$ (98.25)	-	-	91.12	\$ 91.12	-	2,375.36	2.45	\$ 2,377.81	\$ (517.06)
Jan Total	\$ (110,158.77)	\$ 6,802.05	\$ 37,369.83	\$ (65,986.89)	\$ (23,951.60)	\$ 4,047.35	\$ 19,963.47	\$ 59.22	\$ (0.16)	\$ (5.79)	\$ 2,869.41	\$ 2,863.46	\$ -	\$ 48,259.64	\$ 128.45	\$ 48,388.09	\$ (14,676.12)
2/1/2021	(2,752.03)	(334.51)	1,349.84	\$ (1,736.70)	(1,753.02)	906.11	1,203.89	\$ 356.98	-	-	124.71	\$ 124.71	-	2,219.27	(46.31)	\$ 2,172.96	\$ 917.95
2/2/2021	(3,034.91)	449.95	1,161.10	\$ (1,423.86)	(1,227.58)	968.88	850.40	\$ 591.70	-	-	88.83	\$ 88.83	-	1,318.93	(37.33)	\$ 1,281.60	\$ 538.27
2/3/2021	(4,948.63)	779.65	1,268.65	\$ (2,900.33)	(958.59)	453.81	690.43	\$ 185.65	-	-	83.26	\$ 83.26	-	1,816.93	95.47	\$ 1,912.40	\$ (719.02)
2/4/2021	(5,556.30)	1,352.85	1,090.21	\$ (3,113.24)	(902.72)	57.62	626.70	\$ (218.40)	-	(0.07)	81.53	\$ 81.46	-	1,084.10	(93.90)	\$ 990.20	\$ (2,259.98)
2/5/2021	(4,649.75)	701.95	1,237.70	\$ (2,710.10)	(2,121.64)	286.96	873.86	\$ (960.82)	-	(0.55)	93.82	\$ 93.27	-	1,427.45	152.07	\$ 1,579.52	\$ (1,998.13)
2/6/2021	(4,406.68)	42.46	1,328.12	\$ (3,036.10)	(2,485.42)	(13.68)	983.16	\$ (1,515.94)	-	(4.58)	161.86	\$ 157.28	-	1,567.71	38.74	\$ 1,606.45	\$ (2,788.31)
2/7/2021	(2,159.37)	620.70	1,323.26	\$ (215.41)	(2,808.26)	923.41	1,234.06	\$ (650.79)	-	(2.83)	300.68	\$ 297.85	-	1,209.00	(121.98)	\$ 1,087.02	\$ 518.67
2/8/2021	(1,661.39)	453.14	1,202.13	\$ (6.12)	(3,324.44)	5,981.62	1,601.53	\$ 4,258.71	(0.84)	(81.23)	(65.35)	\$ (147.42)	-	819.02	(140.32)	\$ 678.70	\$ 4,783.87
2/9/2021	(698.29)	(1,841.72)	1,514.25	\$ (1,025.76)	(1,882.14)	(384.27)	1,152.85	\$ (1,113.56)	-	(37.81)	894.71	\$ 856.90	-	778.36	(88.47)	\$ 689.89	\$ (592.53)
2/10/2021	(1,021.59)	(1,611.37)	1,487.21	\$ (1,145.75)	(2,369.74)	(168.78)	1,274.52	\$ (1,264.00)	(0.40)	(16.27)	1,206.60	\$ 1,189.93	-	1,101.24	(90.59)	\$ 1,010.65	\$ (209.17)
2/11/2021	(1,990.07)	(985.76)	1,328.88	\$ (1,646.95)	(1,519.98)	(86.18)	864.75	\$ (741.41)	(3.36)	(11.25)	355.44	\$ 340.83	-	2,363.29	(182.64)	\$ 2,180.65	\$ 133.12
2/12/2021	(1,389.79)	(1,639.79)	725.14	\$ (2,304.44)	(1,592.74)	873.58	870.96	\$ 151.80	(10.77)	(32.22)	559.80	\$ 516.81	-	1,249.60	(79.87)	\$ 1,169.73	\$ (466.10)
2/13/2021	(2,395.75)	(1,311.40)	1,617.41	\$ (2,089.74)	(281.18)	124.23	157.85	\$ 0.90	(52.90)	16.65	151.00	\$ 114.75	-	1,527.33	(137.91)	\$ 1,389.42	\$ (584.67)
2/14/2021	(84.97)	(4,252.86)	1,325.85	\$ (3,011.98)	(3,421.08)	481.89	1,583.02	\$ (1,356.17)	(348.50)	18.05	2,817.96	\$ 2,487.51	-	2,167.64	50.51	\$ 2,218.15	\$ 337.51
2/15/2021	(384.38)	(1,621.29)	2,142.11	\$ 136.44	(1,101.08)	6,038.28	2,241.45	\$ 7,178.65	(543.40)	2,263.67	5,697.71	\$ 7,417.98	-	991.31	281.34	\$ 1,272.65	\$ 16,005.72
2/16/2021	(604.15)	(1,385.55)	8,732.34	\$ 6,742.64	(2,020.41)	1,369.99	9,698.89	\$ 9,048.47	(1,363.53)	285.42	17,942.48	\$ 16,864.37	-	750.20	(128.76)	\$ 621.44	\$ 33,276.92
2/17/2021	(1,878.32)	(153.42)	7,154.11	\$ 5,122.37	(2,219.09)	274.86	12,035.01	\$ 10,090.78	(4,504.83)	11.66	18,562.97	\$ 14,069.80	-	274.77	(318.02)	\$ (43.25)	\$ 29,239.70
2/18/2021	-	(7,949.36)	11,346.05	\$ 3,396.69	(818.24)	(14.92)	8,194.10	\$ 7,360.94	(2,777.73)	92.30	18,783.86	\$ 16,098.43	-	2,481.29	(650.65)	\$ 1,830.64	\$ 28,686.70
2/19/2021	(498.71)	(2,713.41)	4,498.96	\$ 1,286.84	(85.53)	(84.85)	611.11	\$ 440.73	(69.23)	33.16	806.70	\$ 770.63	-	1,306.90	(253.98)	\$ 1,052.92	\$ 3,551.12
2/20/2021	(2,944.85)	66.28	1,323.28	\$ (1,555.29)	(601.14)	(62.33)	1,035.75	\$ 372.28	(0.51)	(3.78)	254.66	\$ 250.37	-	1,860.06	(39.22)	\$ 1,820.84	\$ 888.20
2/21/2021	(3,305.86)	1,073.76	1,443.82	\$ (788.28)	(307.25)	26.86	823.53	\$ 543.14	-	(0.92)	221.71	\$ 220.79	-	791.15	(57.28)	\$ 733.87	\$ 709.52
2/22/2021	(2,020.68)	507.41	1,312.82	\$ (200.45)	(888.40)	114.10	1,199.67	\$ 425.37	-	-	200.46	\$ 200.46	-	1,230.82	38.06	\$ 1,268.88	\$ 1,694.26
2/23/2021	(3,263.00)	1,076.24	1,022.04	\$ (1,164.72)	(866.67)	639.53	842.81	\$ 615.67	-	(1.56)	121.46	\$ 119.90	-	1,515.26	(123.21)	\$ 1,392.05	\$ 962.90
2/24/2021	(4,352.54)	212.24	1,133.40	\$ (3,006.90)	(782.52)	(57.54)	761.21	\$ (78.85)	-	(0.02)	106.54	\$ 106.52	-	2,353.44	(198.78)	\$ 2,154.66	\$ (824.57)
2/25/2021	(3,960.51)	(622.50)	1,480.92	\$ (3,102.09)	(1,061.89)	(157.34)	1,041.76	\$ (177.47)	-	-	114.04	\$ 114.04	-	1,861.60	(96.71)	\$ 1,764.89	\$ (1,400.63)
2/26/2021	(4,238.62)	824.35	1,242.72	\$ (2,171.55)	(1,119.12)	(578.43)	950.70	\$ (746.85)	-	-	98.64	\$ 98.64	-	1,052.45			

Table 6-D: ASM Charge Daily Detail / CRDFC / EDEDC

Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
3/1/2021	(4,533.35)	676.99	1,534.53	\$ (2,321.83)	(1,706.81)	444.40	1,205.49	\$ (56.92)	-	-	96.54	\$ 96.54	-	2,890.91	18.36	\$ 2,909.27	\$ 627.06
3/2/2021	(2,412.91)	659.31	1,607.79	\$ (145.81)	(1,579.54)	716.40	1,495.24	\$ 632.10	-	(0.07)	118.37	\$ 118.30	-	736.55	(22.54)	\$ 714.01	\$ 1,318.60
3/3/2021	(2,421.37)	463.28	1,505.78	\$ (452.31)	(1,503.17)	110.81	1,577.48	\$ 185.12	-	-	101.85	\$ 101.85	-	1,139.79	(41.27)	\$ 1,098.52	\$ 933.18
3/4/2021	(4,863.50)	2,321.30	1,238.64	\$ (1,303.56)	(1,315.28)	117.30	1,319.94	\$ 121.96	-	-	103.90	\$ 103.90	-	916.39	81.41	\$ 997.80	\$ (79.90)
3/5/2021	(3,822.90)	(611.00)	1,532.29	\$ (2,901.61)	(1,409.59)	351.96	1,564.13	\$ 506.50	-	-	117.24	\$ 117.24	-	2,812.58	(28.96)	\$ 2,783.62	\$ 505.75
3/6/2021	(4,654.70)	1,340.51	1,417.92	\$ (1,896.27)	(1,219.71)	(2.17)	1,056.24	\$ (165.64)	-	-	96.51	\$ 96.51	-	1,411.26	172.34	\$ 1,583.60	\$ (381.80)
3/7/2021	(1,520.28)	543.88	1,364.23	\$ 387.83	(2,073.70)	114.73	1,120.58	\$ (838.39)	-	-	98.84	\$ 98.84	-	771.89	16.07	\$ 787.96	\$ 436.24
3/8/2021	(4,829.28)	1,690.43	1,631.91	\$ (1,506.94)	(1,599.17)	(179.01)	1,587.42	\$ (190.76)	-	(0.12)	116.77	\$ 116.65	-	1,953.46	165.67	\$ 2,119.13	\$ 538.08
3/9/2021	(1,313.52)	466.66	1,145.52	\$ 298.66	(2,441.93)	138.05	1,104.40	\$ (1,199.48)	-	-	92.58	\$ 92.58	-	373.71	27.45	\$ 401.16	\$ (407.08)
3/10/2021	(823.08)	(3,653.61)	1,204.22	\$ (3,272.47)	(2,022.71)	1,025.34	1,150.38	\$ 153.01	-	(0.04)	131.13	\$ 131.09	-	2,140.60	160.31	\$ 2,300.91	\$ (687.46)
3/11/2021	(4,407.21)	2,224.05	1,335.78	\$ (847.38)	(1,398.94)	572.16	1,373.17	\$ 546.39	-	-	121.88	\$ 121.88	-	2,652.90	(15.94)	\$ 2,636.96	\$ 2,457.85
3/12/2021	(5,273.17)	2,250.32	1,211.71	\$ (1,811.14)	(1,800.39)	900.03	1,105.56	\$ 205.20	-	-	106.11	\$ 106.11	-	2,563.85	(324.55)	\$ 2,239.30	\$ 739.47
3/13/2021	(4,694.23)	(538.57)	1,174.37	\$ (4,058.43)	(1,777.04)	361.17	1,297.41	\$ (118.46)	-	-	101.27	\$ 101.27	-	3,162.55	76.23	\$ 3,238.78	\$ (836.84)
3/14/2021	(644.15)	195.13	1,078.18	\$ 629.16	(2,077.41)	(108.58)	996.11	\$ (1,189.88)	-	-	110.39	\$ 110.39	-	259.98	(0.82)	\$ 259.16	\$ (191.17)
3/15/2021	(6,032.56)	1,616.54	1,288.10	\$ (3,127.92)	(3,961.78)	2,239.08	1,802.58	\$ 79.88	-	-	125.23	\$ 125.23	-	3,232.99	186.79	\$ 3,419.78	\$ 496.97
3/16/2021	(3,618.49)	(1,500.27)	1,522.23	\$ (3,596.53)	(2,415.76)	190.74	1,977.57	\$ (247.45)	-	-	704.32	\$ 704.32	-	2,637.43	(154.73)	\$ 2,482.70	\$ (656.96)
3/17/2021	(4,694.62)	1,573.83	1,040.80	\$ (2,079.99)	(1,509.74)	(10.15)	1,100.79	\$ (419.10)	-	(0.03)	141.30	\$ 141.27	-	2,126.82	(19.26)	\$ 2,107.56	\$ (250.26)
3/18/2021	(2,419.60)	719.74	1,129.05	\$ (570.81)	(1,447.29)	555.90	1,079.25	\$ 187.86	-	-	99.12	\$ 99.12	-	631.01	40.23	\$ 671.24	\$ 387.41
3/19/2021	(2,309.57)	607.43	1,385.65	\$ (316.49)	(1,197.83)	179.73	1,285.06	\$ 266.96	-	-	105.14	\$ 105.14	-	1,453.53	0.31	\$ 1,453.84	\$ 1,509.45
3/20/2021	(1,582.13)	176.26	1,505.03	\$ 99.16	(1,818.51)	811.18	1,348.04	\$ 340.71	-	-	114.35	\$ 114.35	-	1,134.92	(36.02)	\$ 1,098.90	\$ 1,653.12
3/21/2021	(265.44)	(650.50)	1,145.38	\$ 229.44	(1,134.41)	361.68	1,147.10	\$ 374.37	-	-	144.29	\$ 144.29	-	696.69	18.38	\$ 715.07	\$ 1,463.17
3/22/2021	(3,278.77)	378.26	1,391.04	\$ (1,509.47)	(914.26)	21.73	1,632.15	\$ 739.62	-	-	148.68	\$ 148.68	-	1,408.57	2.87	\$ 1,411.44	\$ 790.27
3/23/2021	(2,925.28)	1,346.12	1,256.37	\$ (322.79)	(666.60)	(201.89)	1,188.61	\$ 320.12	-	-	139.46	\$ 139.46	-	778.23	77.78	\$ 856.01	\$ 992.80
3/24/2021	(3,470.78)	1,044.76	1,436.72	\$ (989.30)	(663.41)	85.24	1,524.65	\$ 946.48	(12.00)	9.32	151.16	\$ 148.48	-	132.05	33.91	\$ 165.96	\$ 271.62
3/25/2021	(5,482.34)	1,182.60	1,318.04	\$ (2,981.70)	(1,188.71)	(598.34)	1,593.09	\$ (193.96)	-	(0.30)	192.92	\$ 192.62	-	2,818.25	284.84	\$ 3,103.09	\$ 120.05
3/26/2021	(6,212.52)	899.60	1,401.19	\$ (3,911.73)	(1,212.93)	393.82	1,704.10	\$ 884.99	-	-	156.06	\$ 156.06	-	2,842.62	25.31	\$ 2,867.93	\$ (2.75)
3/27/2021	(5,019.60)	1,241.96	1,544.06	\$ (2,233.58)	(717.12)	237.91	1,088.34	\$ 609.13	-	(0.22)	164.70	\$ 164.48	-	1,910.08	13.19	\$ 1,923.27	\$ 463.30
3/28/2021	(3,886.29)	898.01	1,262.84	\$ (1,725.44)	(1,355.80)	316.73	1,357.63	\$ 318.56	-	(0.05)	149.40	\$ 149.35	-	731.86	120.68	\$ 852.54	\$ (404.99)
3/29/2021	(295.84)	(1,204.18)	1,759.89	\$ 259.87	(4,215.74)	1,287.80	1,607.91	\$ (1,320.03)	-	-	100.92	\$ 100.92	-	569.00	152.52	\$ 721.52	\$ (237.72)
3/30/2021	(230.80)	(2,761.93)	1,245.16	\$ (1,747.57)	(2,863.25)	1,429.30	1,375.64	\$ (58.31)	-	-	106.39	\$ 106.39	-	2,493.92	83.59	\$ 2,577.51	\$ 878.02
3/31/2021	(4,623.42)	(112.05)	1,150.12	\$ (3,585.35)	(1,782.97)	693.26	1,233.87	\$ 144.16	-	-	114.41	\$ 114.41	-	2,624.99	(142.44)	\$ 2,482.55	\$ (844.23)
Mar Total	\$ (102,561.70)	\$ 13,484.86	\$ 41,764.54	\$ (47,312.30)	\$ (52,991.50)	\$ 12,556.31	\$ 41,999.93	\$ 1,564.74	\$ (12.00)	\$ 8.49	\$ 4,371.23	\$ 4,367.72	\$ -	\$ 52,009.38	\$ 971.71	\$ 52,981.09	\$ 11,601.25
4/1/2021	(4,250.56)	197.87	1,705.47	\$ (2,347.22)	(1,293.80)	(358.72)	1,971.49	\$ 318.97	-	-	179.78	\$ 179.78	-	2,710.66	(26.25)	\$ 2,684.41	\$ 835.94
4/2/2021	(586.77)	203.39	1,995.33	\$ 1,611.95	(3,252.68)	1,055.12	2,232.23	\$ 34.67	-	-	121.73	\$ 121.73	-	72.28	0.03	\$ 72.31	\$ 1,840.66
4/3/2021	-	-	1,252.13	\$ 1,252.13	(926.30)	5.00	1,432.81	\$ 511.51	-	(1.69)	137.33	\$ 135.64	-	9.17	-	\$ 9.17	\$ 1,908.45
4/4/2021	-	-	1,221.88	\$ 1,221.88	(1,146.51)	267.05	1,280.19	\$ 400.73	-	-	117.31	\$ 117.31	-	2.45	-	\$ 2.45	\$ 1,742.37
4/5/2021	-	-	1,213.32	\$ 1,213.32	(2,107.50)	1,094.27	1,320.36	\$ 307.13	-	-	99.63	\$ 99.63	-	19.68	-	\$ 19.68	\$ 1,639.76
4/6/2021	(1,003.20)	557.67	1,297.64	\$ 852.11	(1,983.26)	1,164.30	255.94	\$ (563.02)	-	(5.61)	397.88	\$ 392.27	-	130.96	97.38	\$ 228.34	\$ 909.70
4/7/2021	(925.47)	38.93	1,193.18	\$ 306.64	(1,193.08)	(257.12)	1,086.64	\$ (363.56)	-	-	155.96	\$ 155.96	-	337.70	(12.02)	\$ 325.68	\$ 424.72
4/8/2021	(1,283.25)	338.48	1,226.65	\$ 281.88	(1,898.18)	567.99	1,116.72	\$ (213.47)	-	-	170.11	\$ 170.11	-	396.61	(15.80)	\$ 380.81	\$ 619.33
4/9/2021	(1,100.27)	476.59	1,167.84	\$ 544.16	(2,197.25)	1,690.28	1,162.23	\$ 655.26	-	(0.26)	167.51	\$ 167.25	-	595.28	22.62	\$ 617.90	\$ 1,984.57
4/10/2021	(317.74)	326.36	1,029.47	\$ 1,038.09	(1,270.38)	721.31	1,328.79	\$ 779.72	-	-	124.10	\$ 124.10	-	-	-	\$ -	\$ 1,941.91
4/11/2021	(110.86)	130.93	1,284.09	\$ 1,304.16	(1,200.26)	524.20	1,471.05	\$ 794.99	-	-	136.60	\$ 136.60	-	8.14	-	\$ 8.14	\$ 2,243.89
4/12/2021	(1,113.71)	569.33	1,488.85	\$ 944.47	(1,357.28)	539.77	1,531.10	\$ 713.59	-	-	196.60	\$ 196.60	-	146.96	(13.98)	\$ 132.98	\$ 1,987.64
4/13/2021	(1,121.23)	592.72	1,559.52	\$ 1,031.01	(1,233.17)	504.30	1,312.23	\$ 583.36	-	-	140.10	\$ 140.10	-	66.67	21.97	\$ 88.64	\$ 1,843.11
4/14/2021	(1,138.79)	681.65	1,394.28	\$ 937.14	(1,295.42)	554.86	1,372.83	\$ 632.27	-	-	159.84	\$ 159.84	-	134.09	(38.11)	\$ 95.98	\$ 1,825.23
4/15/2021	(1,585.09)	352.28	1,730.99	\$ 498.18	(1,201.37)	692.71	1,489.13	\$ 980.47	-	(11.57)	80.18	\$ 68.61	-	606.13	30.13	\$ 636.26	\$ 2,183.52
4/16/2021	(1,018.88)	362.92	1,668.73	\$ 1,012.77	(498.02)	(520.08)	1,647.40	\$ 629.30	-	(5.82)	958.67	\$ 952.85	-	226.85	(24.70)	\$ 202.15	\$ 2,797.07
4/17/2021	(514.58)	533.81	1,569.69	\$ 1,588.92	(1,039.84)	351.16	1,289.91	\$ 601.23	-	-	124.77	\$ 124.77	-	-	-	\$ -	\$ 2,314.92
4/18/2021	(16.82)	17.03	1,519.30	\$ 1,519.51	(1,229.32)	323.74	1,443.91	\$ 538.33	-	-	198.88	\$ 198.88	-	3.50	-	\$ 3.50	\$ 2,260.22
4/19/2021	(412.32)	711.56	1,470.61	\$ 1,769.85	(1,668.85)	1,632.36	1,078.51	\$ 1,042.02	(21.71)	(3.39)	409.96	\$ 384.86	-	-	-	\$ -	\$ 3,196.73
4/20/2021	(681.40)	789.80	1,841.82	\$ 1,950.22	(2,016.32)	2,452.41	1,755.76	\$ 2,191.85	-	(0.19)	175.65	\$ 175.46	-	-	-	\$ -	\$ 4,317.53
4/21/2021	(1,956.93)	1,441.49	1,436.68	\$ 921.24	(1,163.29)	934.12	2,216.62	\$ 1,987.45	(4.80)	(46.20)	810.20	\$ 759.20	-	231.06	29.50	\$ 260.56	\$ 3,928.45
4/22/2021	(591.49)	160.70	1,201.53	\$ 770.74	(799.14)	660.46	1,380.86	\$ 1,242.18	(80.20)	160.73	202.47	\$ 283.00	-	347.10	18.23	\$ 365.33	\$ 2,661.25
4/23/2021	(235.12)	173.34	1,892.08	\$ 1,830.30	(487.18)	(83.97)	1,987.37	\$ 1,416.22	(19.80)	21.60	183.09	\$ 184.89	-	-	-	\$ -	\$ 3,431.41
4/24/2021	(317.38)	344.54	1,393.10	\$ 1,420.26	(366.62)	(580.76)	1,765.60	\$ 818.22	(13.20)	11.28	137.52	\$ 135.60	-	-	-	\$ -	\$ 2,374.08
4/25/2021	(143.52)	120.15	1,465.51	\$ 1,442.14	(1,262.96)	742.19	1,616.63	\$ 1,095.86	-	-	158.55	\$ 158.55	-	-	-	\$ -	\$ 2,696.55
4/26/2021	(393.34)	279.46	1,633.86	\$ 1,519.98	(1,639.04)	24.46	1,792.96	\$ 178.38	-	(0.09)	150.50	\$ 150.41	-	-	-	\$ -	\$ 1,848.77
4/27/2021	(977.96)	217.22	1,407.88	\$ 647.14	(2,683.08)	(169.52)	2,337.07	\$ (515.53)	(10.29)	(31.95)	1,289.86	\$ 1,247.62	-	82.06	50.21	\$ 132.27	\$ 1,

Table 6-D: ASM Charge Daily Detail / CRDFC / EDEDC

Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
5/1/2021	(617.08)	563.09	1,459.46	\$ 1,405.47	(481.76)	(269.33)	1,154.32	\$ 403.23	-	-	116.46	\$ 116.46	-	3.61	-	\$ 3.61	\$ 1,928.77
5/2/2021	(604.06)	460.02	1,506.29	\$ 1,362.25	(570.68)	(218.38)	1,629.98	\$ 840.92	-	(0.02)	108.90	\$ 108.88	-	165.93	(0.18)	\$ 165.75	\$ 2,477.80
5/3/2021	(529.12)	693.29	1,539.81	\$ 1,703.98	(1,881.74)	(992.80)	1,216.08	\$ (1,658.46)	-	(9.82)	215.94	\$ 206.12	-	-	-	\$ -	\$ 251.64
5/4/2021	(1,543.43)	680.18	1,216.80	\$ 353.55	(1,256.99)	(502.13)	1,304.66	\$ (454.46)	-	(6.19)	98.13	\$ 91.94	-	156.81	44.09	\$ 200.90	\$ 191.93
5/5/2021	(1,185.83)	143.34	1,417.81	\$ 375.32	(1,042.76)	(577.85)	1,715.24	\$ 94.63	-	-	161.98	\$ 161.98	-	232.01	(6.11)	\$ 225.90	\$ 857.83
5/6/2021	(1,619.12)	556.32	1,172.24	\$ 109.44	(881.81)	(1,081.17)	950.38	\$ (1,012.60)	-	-	97.81	\$ 97.81	-	364.74	(7.05)	\$ 357.69	\$ (447.66)
5/7/2021	(1,444.39)	610.32	1,211.90	\$ 377.83	(648.10)	(1,979.13)	903.20	\$ (1,724.03)	-	-	97.99	\$ 97.99	-	352.01	6.36	\$ 358.37	\$ (889.84)
5/8/2021	(466.02)	758.96	953.39	\$ 1,246.33	(1,362.30)	(2,778.90)	968.90	\$ (3,172.30)	-	-	122.00	\$ 122.00	-	-	-	\$ -	\$ (1,803.97)
5/9/2021	(520.46)	510.57	1,208.63	\$ 1,198.74	(2,345.08)	(192.12)	805.11	\$ (1,732.09)	-	-	102.14	\$ 102.14	-	101.57	(4.52)	\$ 97.05	\$ (334.16)
5/10/2021	(1,447.03)	261.61	1,713.14	\$ 527.72	(8,202.82)	152.54	2,384.12	\$ (5,666.16)	-	(0.13)	188.61	\$ 188.48	-	364.59	(20.14)	\$ 344.45	\$ (4,605.51)
5/11/2021	(1,346.86)	323.58	1,512.88	\$ 489.60	(2,093.09)	(4,260.55)	1,753.83	\$ (4,599.81)	-	(1.83)	257.19	\$ 255.36	-	315.09	(65.84)	\$ 249.25	\$ (3,605.60)
5/12/2021	(529.14)	578.47	1,410.57	\$ 1,459.90	(1,163.20)	738.61	1,559.78	\$ 1,135.19	-	-	124.74	\$ 124.74	-	58.04	0.66	\$ 58.70	\$ 2,778.53
5/13/2021	(447.84)	399.43	1,676.33	\$ 1,627.92	(1,171.80)	562.46	1,723.18	\$ 1,113.84	-	-	109.69	\$ 109.69	-	-	-	\$ -	\$ 2,851.45
5/14/2021	(439.30)	248.77	1,860.49	\$ 1,669.96	(3,740.50)	1,972.63	1,758.29	\$ (9.58)	-	-	106.58	\$ 106.58	-	139.00	(20.29)	\$ 118.71	\$ 1,885.67
5/15/2021	(125.25)	93.11	1,838.23	\$ 1,806.09	(125.25)	2,675.71	1,954.73	\$ (728.92)	-	-	159.06	\$ 159.06	-	-	-	\$ -	\$ 1,236.23
5/16/2021	(323.35)	281.02	1,468.47	\$ 1,426.14	(1,415.85)	306.78	1,947.65	\$ 838.58	-	-	176.76	\$ 176.76	-	37.69	(4.82)	\$ 32.87	\$ 2,474.35
5/17/2021	(263.78)	206.25	1,549.23	\$ 1,491.70	(4,506.98)	2,015.24	1,375.67	\$ (1,116.07)	-	-	148.81	\$ 148.81	-	-	-	\$ -	\$ 524.44
5/18/2021	(765.14)	167.48	1,530.22	\$ 932.56	(1,819.08)	421.83	1,642.26	\$ 245.01	-	-	137.73	\$ 137.73	-	289.22	10.80	\$ 300.02	\$ 1,615.32
5/19/2021	(560.59)	(354.90)	1,450.03	\$ 534.54	(2,262.73)	575.40	1,784.69	\$ 97.36	-	-	137.78	\$ 137.78	-	444.38	(47.77)	\$ 396.61	\$ 1,166.29
5/20/2021	(860.05)	201.54	1,367.92	\$ 709.41	(2,453.01)	487.28	1,720.82	\$ (244.91)	-	(9.61)	128.54	\$ 118.93	-	207.40	(25.08)	\$ 182.32	\$ 765.75
5/21/2021	(1,257.51)	18.39	1,580.94	\$ 341.82	(2,345.46)	(1,060.34)	2,043.03	\$ (1,362.77)	-	-	144.30	\$ 144.30	-	701.81	(28.57)	\$ 673.24	\$ (203.41)
5/22/2021	(1,136.63)	1,293.46	1,382.28	\$ 1,539.11	(1,889.32)	(1,602.73)	(282.21)	\$ (3,774.26)	-	(8.58)	73.32	\$ 64.74	-	383.86	589.90	\$ 973.76	\$ (1,196.65)
5/23/2021	(1,125.06)	179.83	1,288.94	\$ 343.71	(2,134.07)	(972.92)	1,422.16	\$ (1,684.83)	-	-	133.60	\$ 133.60	-	394.91	2.31	\$ 397.22	\$ (810.30)
5/24/2021	(1,548.92)	612.25	1,408.62	\$ 471.95	(2,828.85)	(821.53)	2,139.39	\$ (1,510.99)	-	-	150.26	\$ 150.26	-	230.83	(18.57)	\$ 212.26	\$ (676.52)
5/25/2021	(1,109.12)	517.24	1,246.93	\$ 655.05	(5,715.41)	4,025.26	1,357.93	\$ (332.22)	-	-	150.44	\$ 150.44	-	510.10	(18.06)	\$ 492.04	\$ 965.31
5/26/2021	(1,042.87)	235.15	1,147.41	\$ 339.69	(4,223.31)	71.58	976.30	\$ (3,175.43)	-	(3.22)	157.16	\$ 153.94	-	256.48	106.96	\$ 363.44	\$ (2,318.36)
5/27/2021	-	-	1,343.96	\$ 1,343.96	(2,029.14)	(107.85)	859.99	\$ (1,277.00)	-	(6.01)	144.43	\$ 138.42	-	-	-	\$ -	\$ 205.38
5/28/2021	-	-	1,393.57	\$ 1,393.57	(1,483.75)	230.15	912.68	\$ (340.92)	-	-	130.62	\$ 130.62	-	-	-	\$ -	\$ 1,183.27
5/29/2021	-	-	1,522.94	\$ 1,522.94	(2,309.70)	1,382.61	883.17	\$ (43.92)	-	(3.12)	126.85	\$ 123.73	-	-	-	\$ -	\$ 1,602.75
5/30/2021	(117.17)	32.48	1,307.74	\$ 1,223.05	(1,243.08)	166.90	1,313.31	\$ 237.13	-	-	128.93	\$ 128.93	-	51.88	(0.53)	\$ 51.35	\$ 1,640.46
5/31/2021	(189.32)	153.60	1,235.84	\$ 1,200.12	(1,327.72)	437.27	1,244.31	\$ 353.86	-	-	129.08	\$ 129.08	-	17.12	(10.62)	\$ 6.50	\$ 1,689.56
May Total	\$ (23,164.44)	\$ 10,424.85	\$ 43,923.01	\$ 31,183.42	\$ (72,189.45)	\$ (1,195.48)	\$ 43,122.95	\$ (30,261.98)	\$ -	\$ (48.53)	\$ 4,265.83	\$ 4,217.30	\$ -	\$ 5,779.08	\$ 482.93	\$ 6,262.01	\$ 11,400.75
6/1/2021	(1,279.58)	215.14	1,525.97	\$ 461.53	(1,740.49)	524.70	1,777.06	\$ 561.27	-	-	138.81	\$ 138.81	-	367.04	(67.69)	\$ 299.35	\$ 1,460.96
6/2/2021	(1,263.21)	421.65	1,271.01	\$ 429.45	(2,102.25)	1,555.95	1,601.73	\$ 1,055.43	-	(0.05)	130.64	\$ 130.59	-	78.82	(43.73)	\$ 35.09	\$ 1,650.56
6/3/2021	(1,491.32)	273.69	1,564.06	\$ 346.43	(2,465.87)	1,558.05	1,623.35	\$ 715.53	-	(0.23)	122.83	\$ 122.60	-	602.48	(58.30)	\$ 544.18	\$ 1,728.74
6/4/2021	(731.35)	288.59	1,419.13	\$ 976.37	(1,529.88)	500.44	1,456.00	\$ 426.56	-	(0.40)	145.67	\$ 145.27	-	227.90	(24.24)	\$ 203.66	\$ 1,751.86
6/5/2021	(357.79)	(10.34)	1,312.37	\$ 944.24	(949.38)	127.17	1,612.43	\$ 790.22	-	-	169.41	\$ 169.41	-	252.31	6.02	\$ 258.33	\$ 2,162.20
6/6/2021	(820.44)	401.59	1,378.92	\$ 960.07	(1,196.80)	(734.37)	1,703.71	\$ (227.46)	(0.96)	0.72	164.69	\$ 164.45	-	100.31	52.96	\$ 153.27	\$ 1,050.33
6/7/2021	(605.71)	(152.18)	1,512.11	\$ 754.22	(1,097.61)	(1,097.61)	2,254.76	\$ 210.40	-	(5.44)	2,264.05	\$ 2,258.61	293.11	373.74	(19.37)	\$ 647.48	\$ 3,870.71
6/8/2021	(829.68)	317.45	1,310.50	\$ 798.27	(3,001.61)	554.62	1,689.25	\$ (757.74)	(5.84)	(0.64)	1,745.03	\$ 1,738.55	-	181.62	36.20	\$ 217.82	\$ 1,996.90
6/9/2021	(1,015.36)	148.83	983.54	\$ 117.01	(5,380.21)	3,167.76	1,734.72	\$ (477.73)	(60.83)	(341.94)	1,657.43	\$ 1,254.66	-	353.14	(34.14)	\$ 319.00	\$ 1,212.94
6/10/2021	(596.88)	(1,229.02)	1,337.02	\$ (488.88)	(5,532.49)	3,571.31	1,738.96	\$ (222.22)	(59.04)	(2,192.01)	1,599.86	\$ (651.19)	-	322.28	(898.22)	\$ (575.94)	\$ (1,938.23)
6/11/2021	(937.48)	(188.03)	1,569.24	\$ 443.73	(4,299.27)	447.51	2,039.22	\$ (1,812.54)	(10.31)	(39.71)	2,193.89	\$ 2,143.87	-	406.99	(134.24)	\$ 272.75	\$ 1,047.81
6/12/2021	(1,684.95)	775.49	1,183.39	\$ 273.93	(2,866.59)	737.03	1,585.92	\$ (543.64)	(85.00)	(160.16)	1,533.67	\$ 1,288.51	-	431.80	83.84	\$ 515.64	\$ 1,534.44
6/13/2021	(1,309.77)	2,149.84	1,077.78	\$ 1,917.85	(3,883.14)	8,966.75	(49.91)	\$ 5,033.70	-	(29.20)	158.95	\$ 129.75	-	337.63	62.56	\$ 400.19	\$ 7,481.49
6/14/2021	(1,053.65)	208.93	1,247.97	\$ 403.25	(2,690.97)	(1,291.21)	1,908.52	\$ (2,073.66)	-	(72.42)	1,648.21	\$ 1,575.79	-	2.69	(8.94)	\$ (6.25)	\$ (100.87)
6/15/2021	(2,804.73)	1,528.18	1,372.33	\$ 95.78	(4,252.62)	41.06	1,165.12	\$ (3,046.44)	(205.38)	19.88	1,320.81	\$ 1,135.31	-	65.90	5.46	\$ 71.36	\$ (1,743.99)
6/16/2021	(236.60)	198.84	1,235.52	\$ 1,197.76	(2,131.34)	(235.45)	1,034.04	\$ (1,332.75)	-	(2.97)	158.68	\$ 155.71	-	-	-	\$ -	\$ 20.72
6/17/2021	(480.22)	214.52	1,294.86	\$ 1,029.16	(2,427.78)	(130.83)	1,204.96	\$ (1,353.65)	-	(4.72)	192.27	\$ 187.55	-	95.18	(8.05)	\$ 87.13	\$ (49.81)
6/18/2021	(133.16)	69.06	1,275.20	\$ 1,211.10	(3,345.64)	547.49	1,290.72	\$ (1,507.43)	-	(0.09)	146.01	\$ 145.92	-	0.23	(2.19)	\$ (1.96)	\$ (152.37)
6/19/2021	(207.51)	(850.54)	1,219.79	\$ 161.74	(2,237.66)	(321.74)	1,277.49	\$ (1,281.91)	-	(6.74)	149.94	\$ 143.20	-	1,065.81	(3.18)	\$ 1,062.63	\$ 85.66
6/20/2021	(2,113.60)	(58.62)	1,231.94	\$ (940.28)	(2,512.84)	232.74	827.98	\$ (1,452.12)	-	-	124.32	\$ 124.32	-	1,496.75	91.43	\$ 1,588.18	\$ (679.90)
6/21/2021	(3,991.27)	332.08	1,213.79	\$ (2,445.40)	(927.88)	(66.76)	928.02	\$ (66.62)	-	-	130.19	\$ 130.19	-	1,815.89	69.59	\$ 1,885.48	\$ (496.35)
6/22/2021	(2,256.65)	(962.49)	1,129.28	\$ (2,089.86)	(543.92)	(409.46)	1,004.39	\$ 51.01	-	(0.26)	104.50	\$ 104.24	-	2,024.06	105.09	\$ 2,129.15	\$ 194.54
6/23/2021	(1,449.42)	(955.40)	1,407.05	\$ (997.77)	(479.59)	(341.38)	785.07	\$ (35.90)	-	(4.41)	178.97	\$ 174.56	-	991.10	35.75	\$ 1,026.85	\$ 167.74
6/24/2021	(2,526.79)	933.63	1,659.84	\$ 66.68	(617.60)	(157.96)	1,469.22	\$ 693.66	-	(3.92)	158.28	\$ 154.36	-	883.76	2.51	\$ 886.27	\$ 1,800.97
6/25/2021	(5,465.79)	3,383.26	1,285.10	\$ (797.43)	(1,939.40)	513.67	1,333.21	\$ (92.52)	-	(0.74)	133.60	\$ 132.86	-	342.31	31.06	\$ 373.37	\$ (383.72)
6/26/2021	(2,617.77)	2,434.29	1,039.17	\$ 855.69	(477.36)	(590.16)	948.52	\$ (119.00)	-	-	126.48	\$ 126.48	-	108.51	(31.23)	\$ 77.28	\$ 940.45
6/27/2021	(1,209.73)	1,188.68	979.70	\$ 958.65	(1,949.02)	(204.07)	1,414.76	\$ (738.33)	-	-	147.53	\$ 147.53	-	46.92	(54.01)	\$ (7.09)	\$ 360.76
6/28/2021	(434.41)	(413.37)</															

Table 6-D: ASM Charge Daily Detail / CRDFC / EDEDC

Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
7/1/2021	(1,617.49)	190.05	1,689.31	\$ 261.87	(2,086.31)	(353.78)	1,730.66	\$ (709.43)	-	-	152.75	\$ 152.75	-	365.25	(150.43)	\$ 214.82	\$ (79.99)
7/2/2021	(1,957.08)	1,023.94	1,355.58	\$ 422.44	(1,854.45)	1,411.14	821.83	\$ 378.52	-	-	357.50	\$ 357.50	-	889.30	50.97	\$ 940.27	\$ 2,098.73
7/3/2021	(366.06)	(2,706.96)	1,274.17	\$ (1,798.85)	(1,791.30)	44.41	1,636.13	\$ (110.76)	-	(0.51)	149.12	\$ 148.61	-	2,497.54	52.75	\$ 2,550.29	\$ 789.29
7/4/2021	(2,834.70)	1,192.53	1,171.14	\$ (471.03)	(1,817.11)	253.73	1,215.61	\$ (347.77)	-	(2.89)	127.09	\$ 124.20	-	486.88	214.95	\$ 701.83	\$ 7.23
7/5/2021	(2,619.05)	940.73	1,424.35	\$ (253.97)	(2,616.09)	(1,259.38)	1,587.21	\$ (2,288.26)	-	(84.54)	1,470.72	\$ 1,386.18	-	430.16	(6.35)	\$ 423.81	\$ (732.24)
7/6/2021	(2,020.70)	152.78	1,395.59	\$ (472.33)	(5,771.07)	(283.99)	1,772.35	\$ (4,282.71)	-	(718.07)	179.06	\$ (539.01)	-	522.56	73.36	\$ 595.92	\$ (4,698.13)
7/7/2021	(2,386.21)	(405.64)	1,158.21	\$ (1,633.64)	(2,267.07)	(1,406.45)	1,217.51	\$ (2,456.01)	-	-	88.15	\$ 88.15	-	1,902.12	(6.27)	\$ 1,895.85	\$ (2,105.65)
7/8/2021	(3,194.10)	125.37	1,203.93	\$ (1,864.80)	(2,507.74)	83.83	1,213.84	\$ (1,210.07)	-	(0.33)	125.93	\$ 125.60	-	1,269.57	(33.85)	\$ 1,235.72	\$ (1,713.55)
7/9/2021	(3,258.22)	39.04	1,387.52	\$ (1,831.66)	(2,654.58)	406.68	1,360.04	\$ (887.86)	-	-	88.57	\$ 88.57	-	1,018.19	31.50	\$ 1,049.69	\$ (1,581.26)
7/10/2021	(4,644.45)	2,880.83	1,437.03	\$ (326.59)	(2,454.23)	1,139.46	1,454.00	\$ 139.23	-	-	99.76	\$ 99.76	-	580.56	(52.72)	\$ 527.84	\$ 440.24
7/11/2021	(1,858.80)	287.40	1,361.44	\$ (209.96)	(665.80)	188.43	1,145.71	\$ 668.34	-	-	132.56	\$ 132.56	-	580.34	(104.53)	\$ 475.81	\$ 1,066.75
7/12/2021	(1,389.03)	78.55	1,728.57	\$ 418.09	(2,201.37)	288.04	2,169.61	\$ 256.28	-	-	191.96	\$ 191.96	-	403.79	(1.08)	\$ 402.71	\$ 1,269.04
7/13/2021	(1,842.74)	(122.87)	1,637.61	\$ (328.00)	(1,603.25)	(9.93)	1,934.25	\$ 321.07	-	(0.24)	428.12	\$ 427.88	-	1,376.11	(50.19)	\$ 1,325.92	\$ 1,746.87
7/14/2021	(1,845.95)	(66.34)	1,339.04	\$ (573.25)	(1,708.88)	(110.32)	1,427.21	\$ (391.99)	-	-	136.52	\$ 136.52	-	413.14	(30.13)	\$ 383.01	\$ (445.71)
7/15/2021	(2,360.89)	156.82	1,524.15	\$ (679.92)	(2,292.19)	(126.09)	1,919.12	\$ (499.16)	-	(0.57)	165.70	\$ 165.13	-	1,597.29	(73.95)	\$ 1,523.34	\$ 509.39
7/16/2021	(2,607.47)	(111.20)	1,282.80	\$ (1,435.87)	(1,883.26)	59.36	1,487.65	\$ (336.25)	-	-	124.18	\$ 124.18	-	1,840.23	(183.58)	\$ 1,656.65	\$ 8.71
7/17/2021	(1,869.29)	192.99	1,158.30	\$ (518.00)	(1,289.62)	57.99	1,484.69	\$ 253.06	-	-	126.75	\$ 126.75	-	1,290.99	(7.61)	\$ 1,283.38	\$ 1,145.19
7/18/2021	(1,984.13)	(336.12)	1,133.66	\$ (1,186.59)	(1,249.60)	184.97	1,489.92	\$ 425.29	-	(0.21)	202.05	\$ 201.84	-	1,547.80	27.63	\$ 1,575.43	\$ 1,015.97
7/19/2021	(1,216.67)	298.78	1,647.91	\$ 730.02	(1,643.28)	(138.04)	1,766.98	\$ (14.34)	-	(0.21)	564.31	\$ 564.10	-	192.43	(14.89)	\$ 177.54	\$ 1,457.32
7/20/2021	(1,851.17)	1,119.85	1,373.14	\$ 641.82	(2,420.57)	297.03	1,787.43	\$ (336.11)	-	(7.49)	1,195.23	\$ 1,187.74	-	110.35	(26.40)	\$ 83.95	\$ 1,577.40
7/21/2021	(1,662.63)	(1,521.60)	1,193.71	\$ (1,990.52)	(2,100.68)	470.61	1,291.72	\$ (338.35)	-	(1.08)	117.87	\$ 116.79	-	701.03	(183.62)	\$ 517.41	\$ (1,694.67)
7/22/2021	(1,852.24)	374.87	1,330.75	\$ (146.62)	(1,878.19)	60.45	1,517.17	\$ (300.57)	-	(0.08)	175.72	\$ 175.64	-	804.35	36.77	\$ 841.12	\$ 569.57
7/23/2021	(1,551.92)	434.20	1,498.33	\$ 380.61	(2,783.35)	157.47	2,256.39	\$ (369.49)	-	-	197.21	\$ 197.21	-	644.17	(81.46)	\$ 562.71	\$ 771.04
7/24/2021	(815.80)	980.11	1,072.63	\$ 1,236.94	(1,359.84)	1,755.65	1,742.99	\$ 2,138.80	-	(25.57)	36.35	\$ 10.78	-	42.47	(20.14)	\$ 22.33	\$ 3,408.85
7/25/2021	(1,154.28)	(995.68)	1,697.49	\$ (452.47)	(1,661.77)	(2,823.86)	2,529.43	\$ (1,956.20)	(216.63)	(153.64)	2,027.59	\$ 1,657.32	-	206.13	(55.29)	\$ 150.84	\$ (600.51)
7/26/2021	(2,259.32)	105.50	1,732.76	\$ (421.06)	(4,473.02)	(1,160.61)	1,917.66	\$ (3,715.97)	-	(139.42)	1,397.25	\$ 1,257.83	-	558.75	(11.99)	\$ 546.76	\$ (2,332.44)
7/27/2021	(1,811.25)	430.10	1,809.68	\$ 428.53	(5,598.47)	(31.96)	2,030.63	\$ (3,599.80)	(150.16)	(42.88)	1,717.50	\$ 1,524.46	-	453.14	44.70	\$ 497.84	\$ (1,148.97)
7/28/2021	(3,241.82)	1,718.90	1,748.23	\$ 225.31	(4,119.87)	(750.50)	1,993.69	\$ (2,876.68)	-	(170.83)	1,457.15	\$ 1,286.32	-	430.58	(13.08)	\$ 417.50	\$ (947.55)
7/29/2021	(1,377.66)	206.74	1,597.38	\$ 426.46	(2,071.02)	(2,045.12)	2,005.76	\$ (2,110.38)	(33.03)	(49.64)	1,545.18	\$ 1,462.51	-	219.63	(17.10)	\$ 202.53	\$ (18.88)
7/30/2021	(2,053.90)	309.12	1,488.32	\$ (256.46)	(1,280.83)	52.26	1,283.43	\$ 54.86	-	-	140.32	\$ 140.32	-	294.61	(8.39)	\$ 286.22	\$ 224.94
7/31/2021	(2,980.88)	(302.07)	1,145.43	\$ (2,137.52)	(604.07)	228.77	897.44	\$ 522.14	-	(0.02)	113.20	\$ 113.18	-	1,486.59	(83.42)	\$ 1,403.17	\$ (99.03)
July Total	\$ (64,485.90)	\$ 6,670.72	\$ 43,998.16	\$ (13,817.02)	\$ (70,708.88)	\$ (3,359.75)	\$ 50,088.06	\$ (23,980.57)	\$ (399.82)	\$ (1,398.22)	\$ 15,031.37	\$ 13,233.33	\$ -	\$ 25,156.05	\$ (683.84)	\$ 24,472.21	\$ (92.05)
8/1/2021	(2,862.09)	746.01	1,141.17	\$ (974.91)	(819.50)	273.80	1,123.92	\$ 578.22	-	-	114.84	\$ 114.84	-	511.87	46.58	\$ 558.45	\$ 276.60
8/2/2021	(1,702.02)	(157.56)	1,497.72	\$ (361.86)	(834.90)	45.64	1,421.20	\$ 631.94	-	(0.27)	157.95	\$ 157.68	-	825.57	(91.82)	\$ 733.75	\$ 1,161.51
8/3/2021	(2,435.93)	261.48	1,291.57	\$ (882.88)	(1,837.06)	1,050.65	1,330.69	\$ 544.28	-	-	145.88	\$ 145.88	-	1,016.82	(20.71)	\$ 996.11	\$ 803.39
8/4/2021	(3,037.68)	941.72	1,539.54	\$ (556.42)	(1,973.66)	378.27	1,720.44	\$ 125.05	-	-	111.95	\$ 111.95	-	1,076.83	216.30	\$ 1,293.13	\$ 973.71
8/5/2021	(3,048.75)	(63.40)	1,511.21	\$ (1,600.94)	(1,661.63)	308.83	1,796.01	\$ 443.21	-	-	116.82	\$ 116.82	-	1,072.83	(226.24)	\$ 846.59	\$ (194.32)
8/6/2021	(3,083.64)	645.15	1,384.17	\$ (1,054.32)	(1,427.74)	351.93	1,097.56	\$ 21.75	-	-	300.82	\$ 300.82	-	1,034.03	(209.35)	\$ 824.68	\$ 92.93
8/7/2021	(995.60)	241.78	1,311.07	\$ 557.25	(462.16)	69.16	1,263.15	\$ 870.15	-	(0.05)	117.74	\$ 117.69	-	487.73	(39.96)	\$ 447.77	\$ 1,992.86
8/8/2021	(810.48)	(266.48)	1,222.12	\$ 145.16	(624.48)	(69.20)	1,719.26	\$ 1,025.58	-	(0.29)	166.96	\$ 166.67	-	264.29	6.45	\$ 270.74	\$ 1,608.15
8/9/2021	(798.35)	(308.32)	1,634.47	\$ 527.80	(1,709.08)	(893.19)	1,895.51	\$ (706.76)	-	(0.60)	190.71	\$ 190.11	-	172.43	(28.16)	\$ 144.27	\$ 155.42
8/10/2021	(2,824.96)	319.65	1,418.15	\$ (1,087.16)	(6,309.31)	(38.67)	1,682.48	\$ (4,665.50)	-	(10.76)	450.76	\$ 440.00	-	1,225.39	(102.37)	\$ 1,123.02	\$ (4,189.64)
8/11/2021	(1,911.76)	(927.00)	1,275.35	\$ (1,563.41)	(1,288.83)	(373.64)	1,139.97	\$ (522.50)	-	(14.85)	161.14	\$ 146.29	-	294.52	(159.96)	\$ 134.56	\$ (1,805.06)
8/12/2021	(1,875.60)	(661.12)	1,201.16	\$ (1,335.56)	(1,538.15)	(194.12)	1,216.74	\$ (515.53)	-	(33.87)	651.56	\$ 617.69	-	1,078.91	(18.22)	\$ 1,060.69	\$ (172.71)
8/13/2021	(2,259.17)	(1,625.73)	1,201.68	\$ (2,683.22)	(1,136.23)	(377.85)	1,152.69	\$ (361.39)	-	(13.02)	111.97	\$ 98.95	-	1,673.96	60.68	\$ 1,734.64	\$ (1,211.02)
8/14/2021	(3,201.02)	(3,087.75)	1,035.38	\$ (5,253.39)	(608.16)	(1,075.64)	1,127.26	\$ (556.54)	-	(0.65)	116.02	\$ 115.37	-	3,536.16	409.42	\$ 3,945.58	\$ (1,748.98)
8/15/2021	(3,630.68)	(235.68)	961.71	\$ (2,904.65)	(446.82)	(386.14)	878.68	\$ 45.72	-	(1.68)	134.06	\$ 132.38	-	1,711.72	131.74	\$ 1,843.46	\$ (883.09)
8/16/2021	(3,417.66)	(282.60)	1,146.86	\$ (2,553.40)	(734.14)	(811.71)	1,256.42	\$ (289.43)	(0.68)	(2.54)	96.07	\$ 92.85	-	1,589.73	(27.57)	\$ 1,562.16	\$ (1,187.82)
8/17/2021	(2,836.77)	(481.03)	1,057.68	\$ (2,260.12)	(1,311.73)	(2,489.69)	1,077.92	\$ (2,723.50)	-	-	109.00	\$ 109.00	-	1,376.22	158.90	\$ 1,535.12	\$ (3,339.50)
8/18/2021	(5,081.95)	4,206.43	1,040.20	\$ 164.68	(5,019.64)	1,426.14	1,321.71	\$ (2,271.79)	-	(0.92)	114.61	\$ 113.69	-	1,027.01	56.97	\$ 1,083.98	\$ (909.44)
8/19/2021	(1,490.51)	(272.34)	1,317.74	\$ (445.11)	(1,822.68)	(1,119.99)	1,823.03	\$ (1,119.64)	-	(11.52)	184.61	\$ 173.09	-	638.73	136.08	\$ 774.81	\$ (616.85)
8/20/2021	(2,738.29)	1,353.26	1,250.79	\$ (134.24)	(2,237.60)	(1,985.76)	1,200.45	\$ (3,022.91)	-	(1.57)	131.40	\$ 129.83	-	98.26	248.90	\$ 347.16	\$ (2,680.16)
8/21/2021	(2,712.85)	428.58	1,250.34	\$ (1,033.93)	(2,053.52)	(1,150.03)	1,648.97	\$ (1,554.58)	-	(1.04)	145.15	\$ 144.11	-	1,367.41	128.00	\$ 1,495.41	\$ (948.99)
8/22/2021	(4,911.67)	215.65	970.15	\$ (3,725.87)	(2,506.68)	(1,127.00)	1,203.12	\$ (2,430.56)	-	-	96.41	\$ 96.41	-	1,734.54	496.71	\$ 2,231.25	\$ (3,828.77)
8/23/2021	(5,535.27)	1,826.94	1,448.48	\$ (2,259.85)	(7,624.24)	(260.61)	1,949.30	\$ (5,935.55)	-	(275.56)	1,786.18	\$ 1,510.62	-	611.44	103.60	\$ 715.04	\$ (5,969.74)
8/24/2021	(3,384.07)	486.97	1,253.60	\$ (1,643.50)	(4,238.79)	(308.01)	1,123.18	\$ (3,423.62)	-	(120.19)	173.08	\$ 52.89	-	545.65	16.34	\$ 561.99	\$ (4,452.24)
8/25/2021	(2,070.05)	(29.90)	1,512.36	\$ (587.59)	(6,521.85)	(378.83)	1,832.39	\$ (5,068.29)	(4.00)	(583.91)	2,009.90	\$ 1,421.99	-	462.28	1.02	\$ 463.30	\$ (3,770.59)
8/26/2021	(2,100.15																

Table 6-D: ASM Charge Daily Detail / CRDFC / EDEDC

Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
9/1/2021	(2,866.93)	389.55	989.79	\$ (1,487.59)	(2,939.44)	146.30	586.56	\$ (2,206.58)	-	-	93.11	\$ 93.11	-	1,341.09	(43.68)	\$ 1,297.41	\$ (2,303.65)
9/2/2021	(5,625.53)	3,285.17	1,199.17	\$ (1,141.19)	(3,001.73)	700.91	1,228.17	\$ (1,072.65)	-	(0.01)	91.88	\$ 91.87	-	1,511.08	59.35	\$ 1,570.43	\$ (551.54)
9/3/2021	(2,433.85)	1,097.04	1,347.59	\$ 10.78	(2,871.35)	434.93	1,133.73	\$ (1,302.69)	-	-	91.73	\$ 91.73	-	642.47	(2.28)	\$ 640.19	\$ (559.99)
9/4/2021	(137.86)	(368.06)	1,470.25	\$ 964.33	(252.32)	(3,142.17)	1,027.28	\$ (2,367.21)	-	-	98.80	\$ 98.80	-	218.51	(123.03)	\$ 95.48	\$ (1,208.60)
9/5/2021	(336.98)	(205.74)	1,527.96	\$ 985.24	(3,232.40)	(392.20)	1,208.77	\$ (2,415.83)	-	(0.36)	104.60	\$ 104.24	-	183.69	(11.24)	\$ 172.45	\$ (1,153.90)
9/6/2021	(578.88)	60.88	1,283.84	\$ 765.84	(3,532.00)	(1,132.69)	1,352.35	\$ (3,312.34)	-	(0.31)	97.13	\$ 96.82	-	219.66	(7.17)	\$ 212.49	\$ (2,237.19)
9/7/2021	(5,327.31)	8,358.87	953.65	\$ 3,985.21	(3,765.13)	161.80	280.18	\$ (3,323.15)	-	-	140.69	\$ 140.69	-	488.26	547.30	\$ 1,035.56	\$ 1,838.31
9/8/2021	(2,944.23)	1,390.73	1,127.12	\$ (426.38)	(3,241.10)	(1,184.87)	1,013.59	\$ (3,412.38)	-	-	85.32	\$ 85.32	-	1,064.20	(41.33)	\$ 1,022.87	\$ (2,730.57)
9/9/2021	(1,694.82)	333.48	1,410.67	\$ 49.33	(2,660.25)	(898.78)	860.53	\$ (2,698.50)	-	(0.19)	116.13	\$ 115.94	-	947.57	(28.48)	\$ 919.09	\$ (1,614.14)
9/10/2021	(3,417.33)	1,655.09	1,406.05	\$ (356.19)	(4,364.65)	(924.70)	1,108.36	\$ (4,180.99)	-	-	98.98	\$ 98.98	-	423.01	(158.99)	\$ 264.02	\$ (4,174.18)
9/11/2021	(149.69)	(697.03)	1,595.22	\$ 748.50	(3,582.00)	75.54	1,278.78	\$ (2,227.68)	-	(0.13)	104.52	\$ 104.39	-	287.47	(38.24)	\$ 249.23	\$ (1,125.56)
9/12/2021	(161.50)	(72.46)	1,843.00	\$ 1,609.04	(5,665.20)	875.24	1,990.63	\$ (2,799.33)	-	(0.02)	132.21	\$ 132.19	-	114.83	(87.97)	\$ 26.86	\$ (1,031.24)
9/13/2021	(908.78)	203.13	1,643.87	\$ 938.22	(4,625.51)	(2,366.67)	1,715.30	\$ (5,276.88)	-	-	144.65	\$ 144.65	-	368.39	(98.61)	\$ 269.78	\$ (3,924.23)
9/14/2021	(1,171.74)	321.65	1,369.14	\$ 519.05	(4,129.32)	(897.23)	1,105.96	\$ (3,920.59)	-	(0.19)	119.95	\$ 119.76	-	349.73	(142.70)	\$ 207.03	\$ (3,074.75)
9/15/2021	(1,598.89)	(2,568.07)	1,780.30	\$ (2,386.66)	(2,998.85)	(1,676.80)	1,050.97	\$ (3,624.68)	-	(0.18)	82.34	\$ 82.16	-	1,418.68	331.67	\$ 1,750.35	\$ (4,178.83)
9/16/2021	(1,965.68)	686.70	1,539.27	\$ 260.29	(3,406.05)	(1,413.96)	1,372.98	\$ (3,447.03)	-	(3.29)	99.31	\$ 96.02	-	580.97	(85.02)	\$ 495.95	\$ (2,594.77)
9/17/2021	(1,030.98)	496.64	1,554.46	\$ 1,020.12	(1,376.52)	(2,044.75)	1,299.22	\$ (2,122.05)	-	(88.85)	96.25	\$ 7.40	-	238.43	(169.22)	\$ 69.21	\$ (1,025.32)
9/18/2021	(355.45)	(151.82)	1,721.36	\$ 1,214.09	(2,007.80)	(553.01)	1,487.23	\$ (1,073.58)	-	(3.52)	113.30	\$ 109.78	-	241.18	(41.70)	\$ 199.48	\$ 449.77
9/19/2021	(355.54)	44.02	1,671.00	\$ 1,359.48	(2,263.60)	(72.92)	1,688.90	\$ (647.62)	-	(0.76)	147.32	\$ 146.56	-	147.72	(15.24)	\$ 132.48	\$ 990.90
9/20/2021	(3,225.09)	1,995.94	1,857.45	\$ 628.30	(2,116.55)	(1,659.07)	1,872.88	\$ (1,902.74)	-	(22.53)	134.36	\$ 111.83	-	521.74	(3.72)	\$ 518.02	\$ (644.59)
9/21/2021	(1,546.91)	194.78	1,465.49	\$ 113.36	(3,217.76)	(196.09)	1,569.16	\$ (1,844.69)	-	(5.90)	141.12	\$ 135.22	-	581.65	(14.90)	\$ 566.75	\$ (1,029.36)
9/22/2021	(1,344.06)	134.91	1,533.22	\$ 324.07	(552.60)	(447.95)	749.38	\$ (251.17)	(0.22)	(1.84)	117.33	\$ 115.27	-	470.65	21.84	\$ 492.49	\$ 680.66
9/23/2021	(1,958.03)	485.08	1,637.76	\$ 164.81	(1,210.82)	(1,190.72)	1,352.00	\$ (1,049.54)	-	(0.16)	109.19	\$ 109.03	-	781.13	(16.72)	\$ 764.41	\$ (11.29)
9/24/2021	(2,151.99)	842.08	1,128.21	\$ (181.70)	(1,586.24)	(1,011.15)	890.90	\$ (1,706.49)	-	(8.24)	115.49	\$ 107.25	-	828.94	166.67	\$ 995.61	\$ (785.33)
9/25/2021	(233.37)	(382.06)	1,153.80	\$ 538.37	(1,611.60)	(522.66)	323.02	\$ (1,811.24)	(12.18)	(8.84)	130.53	\$ 109.51	-	200.04	(74.40)	\$ 125.64	\$ (1,037.72)
9/26/2021	(305.48)	179.22	1,343.63	\$ 1,217.37	(1,824.19)	2,558.86	1,032.27	\$ 1,766.94	(3.26)	(8.37)	142.85	\$ 131.22	-	107.46	(19.96)	\$ 87.50	\$ 3,203.03
9/27/2021	(372.02)	(260.66)	1,633.19	\$ 1,000.51	(3,347.02)	203.77	1,847.13	\$ (1,296.12)	(100.58)	(218.03)	1,150.05	\$ 831.44	-	121.22	(68.61)	\$ 52.61	\$ 588.44
9/28/2021	(374.29)	(100.23)	1,524.86	\$ 1,050.34	(3,374.80)	(330.52)	2,368.09	\$ (1,337.23)	(7.39)	(3.43)	1,232.05	\$ 1,221.23	-	150.47	(61.53)	\$ 88.94	\$ 1,023.28
9/29/2021	(415.81)	366.14	1,272.01	\$ 1,222.34	(1,566.35)	(2,312.15)	2,228.25	\$ (1,650.25)	-	(20.71)	803.38	\$ 782.67	-	189.51	85.15	\$ 274.66	\$ 629.42
9/30/2021	(375.06)	271.73	1,960.21	\$ 1,856.88	(4,013.91)	(449.62)	2,848.18	\$ (1,615.35)	(37.77)	(11.72)	2,004.21	\$ 1,954.72	-	266.44	(39.65)	\$ 226.79	\$ 2,423.04
September Total	\$ (45,364.08)	\$ 17,986.70	\$ 43,943.54	\$ 16,566.16	\$ (84,337.06)	\$ (19,663.33)	\$ 39,870.75	\$ (64,129.64)	\$ (161.40)	\$ (407.58)	\$ 8,138.78	\$ 7,569.80	\$ -	\$ 15,006.19	\$ (182.41)	\$ 14,823.78	\$ (25,169.90)
10/1/2021	(377.06)	185.28	1,916.81	\$ 1,725.03	(2,122.24)	(337.33)	2,794.70	\$ 335.13	-	-	186.64	\$ 186.64	-	183.37	(62.86)	\$ 120.51	\$ 2,367.31
10/2/2021	(119.48)	(58.13)	1,646.71	\$ 1,469.10	(1,079.09)	(1,661.89)	2,174.27	\$ (566.71)	-	-	162.48	\$ 162.48	-	140.58	(69.96)	\$ 70.62	\$ 1,135.49
10/3/2021	(943.07)	(549.43)	1,859.18	\$ 366.68	(4,349.99)	614.85	2,535.26	\$ (1,199.88)	-	(703.64)	(188.06)	\$ (891.70)	-	673.62	(29.33)	\$ 644.29	\$ (1,080.61)
10/4/2021	(426.16)	184.71	2,089.76	\$ 1,848.31	(4,486.26)	(597.28)	2,992.16	\$ (2,091.38)	-	(4.22)	251.19	\$ 246.97	-	99.20	(63.12)	\$ 36.08	\$ 39.98
10/5/2021	(1,039.03)	68.75	2,030.03	\$ 1,059.75	(9,176.44)	1,288.20	2,733.09	\$ (5,155.15)	-	(1.62)	1,809.71	\$ 1,808.09	-	204.16	(61.19)	\$ 142.97	\$ (2,144.34)
10/6/2021	(1,235.67)	457.28	1,985.83	\$ 1,207.44	(3,467.00)	(1,408.53)	2,608.66	\$ (2,266.87)	-	(0.03)	230.91	\$ 230.88	-	795.44	(136.84)	\$ 658.60	\$ (169.95)
10/7/2021	(993.96)	294.24	1,866.89	\$ 1,167.17	(3,785.32)	(848.89)	2,746.61	\$ (1,887.60)	-	(37.79)	190.08	\$ 152.29	-	312.18	8.52	\$ 320.70	\$ (247.44)
10/8/2021	(151.72)	(170.84)	1,660.93	\$ 1,338.37	(5,978.31)	1,238.32	2,857.45	\$ (1,882.54)	-	(4.03)	215.09	\$ 211.06	-	158.96	(48.24)	\$ 110.72	\$ (222.39)
10/9/2021	(151.61)	(267.60)	1,658.04	\$ 1,238.83	(1,229.36)	7.19	2,294.08	\$ 1,071.91	-	(6.47)	121.89	\$ 115.42	-	115.40	(78.13)	\$ 37.27	\$ 2,463.43
10/10/2021	(226.57)	(757.92)	1,848.77	\$ 864.28	(1,297.96)	0.10	2,549.54	\$ 1,251.68	-	(0.08)	149.09	\$ 149.01	-	245.31	(61.34)	\$ 183.97	\$ 2,448.94
10/11/2021	(247.48)	(575.33)	1,611.42	\$ 788.61	(2,284.24)	(457.00)	2,384.78	\$ (356.46)	-	(0.04)	321.58	\$ 321.54	-	540.90	(71.19)	\$ 469.71	\$ 1,223.40
10/12/2021	(533.64)	322.89	1,457.19	\$ 1,246.44	(2,331.87)	3.24	2,261.64	\$ (66.99)	-	-	1,294.74	\$ 1,294.74	-	295.17	(42.27)	\$ 252.90	\$ 2,727.09
10/13/2021	(1,318.20)	(1,249.86)	1,750.15	\$ (817.91)	(1,438.57)	410.65	1,343.93	\$ 316.01	-	(0.58)	170.24	\$ 169.66	-	586.08	129.97	\$ 716.05	\$ 383.81
10/14/2021	(1,650.26)	341.07	1,735.49	\$ 426.30	(1,798.17)	192.54	2,058.78	\$ 453.15	-	(2.08)	174.90	\$ 172.82	-	357.42	187.02	\$ 544.44	\$ 1,596.71
10/15/2021	(2,859.55)	831.03	1,917.82	\$ (110.70)	(2,302.85)	244.65	2,258.29	\$ 200.09	-	(3.14)	172.61	\$ 169.47	-	1,067.91	53.64	\$ 1,121.55	\$ 1,380.41
10/16/2021	(2,265.70)	1,444.81	1,010.52	\$ 189.63	(881.16)	321.34	1,074.06	\$ 514.24	-	(3.39)	137.50	\$ 134.11	-	859.05	91.42	\$ 950.47	\$ 1,788.45
10/17/2021	(1,135.76)	(507.69)	1,771.85	\$ 128.40	(1,104.92)	(25.86)	2,002.10	\$ 871.32	-	(0.79)	131.90	\$ 131.11	-	581.68	(60.81)	\$ 520.87	\$ 1,651.70
10/18/2021	(3,607.00)	2,182.25	1,788.91	\$ 364.16	(2,168.82)	299.34	2,276.69	\$ 407.21	-	(0.02)	105.42	\$ 105.40	-	502.22	248.06	\$ 750.28	\$ 1,627.05
10/19/2021	(2,549.29)	535.17	1,664.13	\$ (349.99)	(2,404.73)	265.48	2,407.98	\$ 268.73	-	-	159.79	\$ 159.79	-	910.15	402.39	\$ 1,312.54	\$ 1,391.07
10/20/2021	(3,200.69)	1,303.77	1,402.68	\$ (494.24)	(2,379.03)	1,193.25	1,265.44	\$ 79.66	-	(0.06)	882.87	\$ 882.81	-	1,863.69	616.40	\$ 2,480.09	\$ 2,948.32
10/21/2021	(2,076.35)	(314.87)	1,894.17	\$ (497.05)	(2,736.68)	520.35	2,189.97	\$ (26.36)	-	(0.51)	255.53	\$ 255.02	-	968.99	199.23	\$ 1,168.22	\$ 899.83
10/22/2021	(1,245.66)	423.27	1,977.01	\$ 1,154.62	(3,321.60)	246.39	3,140.39	\$ 65.18	-	-	201.06	\$ 201.06	-	485.46	97.66	\$ 583.12	\$ 2,003.98
10/23/2021	(4,770.10)	2,598.32	1,532.61	\$ (639.17)	(869.70)	60.14	1,155.75	\$ 346.19	-	(0.85)	172.02	\$ 171.17	-	393.02	(47.70)	\$ 345.32	\$ 223.51
10/24/2021	(1,502.55)	526.94	1,558.48	\$ 582.87	(707.96)	88.60	1,001.40	\$ 382.04	(7.60)	5.16	125.07	\$ 122.63	-	600.95	84.64	\$ 685.59	\$ 1,773.13
10/25/2021	(1,103.65)	(451.32)	1,997.17	\$ 442.20	(1,976.83)	(545.05)	2,116.16	\$ (405.72)	(0.72)	0.40	209.39	\$ 209.07	-	1,006.96	61.76	\$ 1,068.72	\$ 1,314.27
10/26/2021	(3,712.42)	1,043.16	1,429.24	\$ (1,240.02)	(1,252.64)	83.34	1,283.25	\$ 113.95	-	(0.21)	124.15	\$ 123.94	-	982.80	257.44	\$ 1,240.24	\$ 238.11
10/27/2021	(778.73)	(300.18)															

Table 6-D: ASM Charge Daily Detail / CRDFC / EDEDC

Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
11/1/2021	(955.20)	(862.18)	1,778.48	\$ (38.90)	(886.10)	273.66	1,583.66	\$ 971.22	-	(0.63)	263.18	\$ 262.55	-	913.11	209.91	\$ 1,123.02	\$ 2,317.89
11/2/2021	(1,810.14)	250.57	1,939.71	\$ 380.14	(1,777.02)	587.42	2,003.83	\$ 814.23	-	(0.62)	205.26	\$ 204.64	-	1,079.13	19.32	\$ 1,098.45	\$ 2,497.46
11/3/2021	(1,966.10)	(466.48)	1,959.38	\$ (473.20)	(2,257.54)	(24.57)	2,351.51	\$ 69.40	-	(1.43)	657.95	\$ 656.52	-	1,457.98	137.05	\$ 1,595.03	\$ 1,847.75
11/4/2021	(4,330.59)	2,474.99	1,452.02	\$ (403.58)	(1,758.67)	1,608.90	587.29	\$ 437.52	-	(27.29)	230.69	\$ 203.40	-	1,279.18	1,903.74	\$ 3,182.92	\$ 3,420.26
11/5/2021	(8,986.55)	7,650.26	2,211.41	\$ 875.12	(6,165.85)	1,736.92	3,068.32	\$ (1,360.61)	-	-	184.60	\$ 184.60	-	812.75	84.43	\$ 897.18	\$ 596.29
11/6/2021	(3,303.67)	1,711.82	1,672.05	\$ 80.20	(2,038.72)	516.66	1,423.14	\$ (98.92)	-	-	144.79	\$ 144.79	-	1,164.86	(148.35)	\$ 1,016.51	\$ 1,142.58
11/7/2021	(3,429.88)	1,323.30	1,526.59	\$ (579.99)	(2,019.44)	940.77	1,622.39	\$ 543.72	-	-	167.68	\$ 167.68	-	1,145.22	(84.65)	\$ 1,060.57	\$ 1,191.98
11/8/2021	(1,129.46)	(1,502.88)	1,562.64	\$ (1,069.70)	(1,764.13)	(91.78)	1,930.05	\$ 74.14	-	(0.96)	183.87	\$ 182.91	-	1,746.71	33.33	\$ 1,780.04	\$ 967.39
11/9/2021	(1,481.05)	(247.13)	1,536.59	\$ (191.59)	(1,327.28)	134.10	1,338.99	\$ 145.81	-	(0.99)	193.20	\$ 192.21	-	1,056.01	105.60	\$ 1,161.61	\$ 1,308.04
11/10/2021	(3,931.96)	2,000.21	1,712.17	\$ (219.58)	(1,613.74)	123.16	1,353.15	\$ (137.43)	-	-	177.28	\$ 177.28	-	1,045.19	64.09	\$ 1,109.28	\$ 929.55
11/11/2021	(4,217.36)	1,994.31	1,551.14	\$ (671.91)	(1,449.38)	313.60	1,027.64	\$ (108.14)	-	-	165.25	\$ 165.25	-	1,476.80	110.48	\$ 1,587.28	\$ 972.48
11/12/2021	(5,025.31)	2,479.46	1,533.15	\$ (1,012.70)	(1,801.48)	(382.86)	1,394.08	\$ (790.26)	-	-	186.57	\$ 186.57	-	1,616.73	75.08	\$ 1,691.81	\$ 75.42
11/13/2021	(3,263.47)	2,388.71	1,310.12	\$ 435.36	(1,642.19)	904.44	1,112.71	\$ 374.96	-	(0.53)	174.68	\$ 174.15	-	1,307.05	78.36	\$ 1,385.41	\$ 2,369.88
11/14/2021	(2,454.57)	2,533.99	1,572.14	\$ 1,651.56	(2,119.80)	321.41	1,914.06	\$ 115.67	-	(2.82)	164.57	\$ 161.75	-	10.47	13.82	\$ 24.29	\$ 1,953.27
11/15/2021	(1,608.46)	258.02	1,914.10	\$ 563.66	(1,375.72)	47.56	1,609.60	\$ 281.44	-	(4.75)	212.21	\$ 207.46	-	722.79	(70.09)	\$ 652.70	\$ 1,705.26
11/16/2021	(2,716.50)	506.84	1,282.76	\$ (926.90)	(740.78)	(67.24)	876.45	\$ 68.43	-	(9.41)	180.70	\$ 171.29	-	2,644.32	(282.53)	\$ 2,361.79	\$ 1,674.61
11/17/2021	(2,859.40)	2,716.01	1,139.57	\$ 996.18	(488.38)	161.58	847.73	\$ 520.93	-	(0.11)	132.84	\$ 132.73	-	688.36	75.47	\$ 763.83	\$ 2,413.67
11/18/2021	-	-	1,369.35	\$ 1,369.35	(338.84)	74.09	1,254.75	\$ 990.00	-	-	167.48	\$ 167.48	-	-	-	\$ -	\$ 2,526.83
11/19/2021	-	(374.94)	1,845.82	\$ 1,470.88	(412.92)	(334.19)	1,629.27	\$ 882.16	-	(0.34)	197.96	\$ 197.62	-	120.43	(20.30)	\$ 100.13	\$ 2,650.79
11/20/2021	(457.27)	465.77	1,602.22	\$ 1,610.72	(1,291.82)	373.45	1,551.12	\$ 632.75	-	-	199.88	\$ 199.88	-	40.15	(22.41)	\$ 17.74	\$ 2,461.09
11/21/2021	(397.25)	(5,300.81)	1,138.91	\$ (4,559.15)	(679.10)	42.97	1,086.28	\$ 450.15	-	(2.28)	160.07	\$ 157.79	-	3,785.00	182.04	\$ 3,967.04	\$ 15.83
11/22/2021	(155.89)	(107.50)	2,126.55	\$ 1,863.16	(853.76)	(29.22)	1,667.52	\$ 784.54	-	(0.42)	175.00	\$ 174.58	-	143.68	(51.37)	\$ 92.31	\$ 2,914.59
11/23/2021	(2,255.38)	(145.96)	1,320.30	\$ (1,081.04)	(895.70)	(116.00)	1,099.48	\$ 87.78	-	(1.49)	123.97	\$ 122.48	-	1,283.79	223.32	\$ 1,507.11	\$ 636.33
11/24/2021	(3,804.21)	3,036.17	1,362.39	\$ 594.35	(1,012.62)	(72.88)	945.14	\$ (140.36)	-	(0.15)	111.47	\$ 111.32	-	994.61	3.11	\$ 997.72	\$ 1,563.03
11/25/2021	(2,784.51)	287.37	1,661.41	\$ (835.73)	(1,118.70)	(49.68)	980.70	\$ (187.68)	-	(3.01)	113.51	\$ 110.50	-	1,089.32	(283.19)	\$ 806.13	\$ (106.78)
11/26/2021	(2,112.74)	805.50	1,307.97	\$ 0.73	(1,001.15)	(215.86)	1,086.35	\$ (130.66)	-	(2.16)	139.48	\$ 137.32	-	795.42	(194.11)	\$ 601.31	\$ 608.70
11/27/2021	(4,672.17)	1,827.90	1,397.75	\$ (1,446.52)	(915.22)	268.91	873.15	\$ 226.84	-	(0.05)	102.20	\$ 102.15	-	1,437.65	215.58	\$ 1,653.23	\$ 535.70
11/28/2021	(950.66)	706.53	1,145.94	\$ 901.81	(607.18)	(259.84)	866.05	\$ (0.97)	-	(0.68)	124.30	\$ 123.62	-	57.65	(11.00)	\$ 46.65	\$ 1,071.11
11/29/2021	(1,583.94)	(1,257.78)	754.24	\$ (2,087.48)	(1,583.67)	446.23	1,531.40	\$ 393.96	-	(4.21)	176.04	\$ 171.83	-	974.21	1,077.48	\$ 2,051.69	\$ 530.00
11/30/2021	(1,005.07)	(1,224.05)	1,094.74	\$ (1,134.38)	(988.30)	(161.37)	1,325.31	\$ 175.64	-	(0.38)	191.28	\$ 190.90	-	1,049.40	93.83	\$ 1,143.23	\$ 375.39
November Total	\$ (73,648.76)	\$ 23,928.02	\$ 45,781.61	\$ (3,939.13)	\$ (42,925.20)	\$ 7,070.34	\$ 41,941.12	\$ 6,086.26	\$ -	\$ (64.71)	\$ 5,607.96	\$ 5,543.25	\$ -	\$ 31,937.97	\$ 3,538.04	\$ 35,476.01	\$ 43,166.39
12/1/2021	(5,565.43)	5,281.25	1,078.64	\$ 794.46	(1,746.90)	1,090.78	632.00	\$ (24.12)	-	(0.51)	446.63	\$ 446.12	-	715.91	625.55	\$ 1,341.46	\$ 2,557.92
12/2/2021	(1,484.32)	(1,138.91)	1,066.89	\$ (1,556.34)	(693.48)	(494.76)	926.70	\$ (261.54)	-	(2.87)	190.57	\$ 187.70	-	803.04	537.75	\$ 1,340.79	\$ (289.39)
12/3/2021	(1,752.32)	(88.62)	979.25	\$ (861.69)	(482.71)	(524.49)	621.34	\$ (385.86)	-	(0.60)	163.24	\$ 162.64	-	607.33	169.40	\$ 776.73	\$ (308.18)
12/4/2021	(709.81)	(3,984.07)	991.76	\$ (3,702.12)	(724.04)	(668.33)	756.69	\$ (635.68)	-	-	171.44	\$ 171.44	-	2,536.90	131.68	\$ 2,668.58	\$ (1,497.78)
12/5/2021	(2,913.85)	(1,421.07)	799.70	\$ (3,535.22)	(878.10)	(407.14)	885.24	\$ (400.00)	-	(0.60)	115.99	\$ 115.39	-	2,017.62	472.09	\$ 2,489.71	\$ (1,330.12)
12/6/2021	(1,132.72)	1,506.91	1,304.98	\$ 1,679.17	(1,404.10)	340.05	1,434.71	\$ 370.66	-	(4.55)	143.74	\$ 139.19	-	24.85	99.74	\$ 124.59	\$ 2,313.61
12/7/2021	(1,548.13)	381.58	1,688.86	\$ 522.31	(2,424.13)	(583.20)	1,457.65	\$ (1,549.68)	-	(249.16)	181.23	\$ (67.93)	-	1,081.54	177.42	\$ 1,258.96	\$ 163.66
12/8/2021	(915.85)	824.04	824.04	\$ 167.70	(3,699.70)	4,267.98	1,528.19	\$ 2,096.47	-	(209.07)	203.56	\$ (5.51)	-	617.28	114.21	\$ 731.49	\$ 2,990.15
12/9/2021	(1,556.45)	(3,317.39)	1,513.35	\$ (3,360.49)	(1,748.71)	(108.35)	1,269.07	\$ (587.99)	-	(0.49)	162.96	\$ 162.47	-	1,596.28	230.77	\$ 1,827.05	\$ (1,958.96)
12/10/2021	(683.88)	(1,173.95)	1,275.27	\$ (582.56)	(1,187.30)	(278.36)	1,270.93	\$ (194.73)	-	-	153.12	\$ 153.12	-	570.97	113.91	\$ 684.88	\$ 60.71
12/11/2021	(5,281.85)	3,395.45	1,195.74	\$ (690.66)	(699.10)	(279.23)	980.81	\$ 2.48	-	(0.22)	98.77	\$ 98.55	-	1,780.22	190.70	\$ 1,970.92	\$ 1,381.29
12/12/2021	(3,332.83)	1,144.65	1,161.79	\$ (1,026.39)	(1,033.00)	(25.19)	1,039.92	\$ (18.27)	-	(0.72)	95.18	\$ 94.46	-	1,202.68	49.65	\$ 1,252.33	\$ 302.13
12/13/2021	(2,026.77)	(578.87)	1,396.62	\$ (1,209.02)	(1,371.60)	1,345.65	338.18	\$ 312.23	-	(0.22)	599.79	\$ 599.57	-	879.67	73.17	\$ 952.84	\$ 655.62
12/14/2021	(5,055.15)	1,631.20	1,332.16	\$ (2,091.79)	(1,474.50)	(33.68)	1,121.76	\$ (386.42)	-	(0.15)	113.45	\$ 113.30	-	785.69	169.60	\$ 955.29	\$ (1,409.62)
12/15/2021	(4,233.79)	4,116.18	1,234.05	\$ 1,116.44	(944.78)	205.24	1,081.93	\$ 342.39	-	-	101.09	\$ 101.09	-	557.05	65.07	\$ 622.12	\$ 2,182.04
12/16/2021	(612.99)	(1,318.52)	1,214.29	\$ (717.22)	(723.88)	(104.32)	1,074.28	\$ 246.08	-	-	115.07	\$ 115.07	-	621.71	80.24	\$ 701.95	\$ 345.88
12/17/2021	(632.94)	(1,499.68)	1,637.84	\$ (494.78)	(1,262.24)	(1,027.31)	1,384.41	\$ (905.14)	-	-	132.30	\$ 132.30	-	743.92	291.34	\$ 1,035.26	\$ (232.36)
12/18/2021	(1,077.21)	(919.60)	1,249.51	\$ (747.30)	(1,373.75)	(1,690.34)	1,548.59	\$ (1,515.50)	-	-	180.46	\$ 180.46	-	1,088.37	379.63	\$ 1,468.00	\$ (614.34)
12/19/2021	(6,963.97)	2,830.74	1,392.51	\$ (2,740.72)	(1,613.14)	(340.08)	943.30	\$ (1,009.92)	-	-	124.90	\$ 124.90	-	3,666.06	159.14	\$ 3,825.20	\$ 199.46
12/20/2021	(6,235.02)	4,893.74	1,057.21	\$ (284.07)	(3,061.13)	97.82	1,884.74	\$ (1,078.57)	-	-	152.66	\$ 152.66	-	2,820.36	256.31	\$ 3,076.67	\$ 1,866.69
12/21/2021	(8,183.19)	8,332.98	739.76	\$ 889.55	(3,308.68)	1,413.79	1,103.11	\$ (791.78)	-	-	358.97	\$ 358.97	-	1,859.17	453.03	\$ 2,312.20	\$ 2,768.94
12/22/2021	(6,258.10)	2,755.22	1,529.16	\$ (1,973.72)	(1,766.30)	(290.55)	1,319.98	\$ (736.87)	-	(2.96)	141.14	\$ 138.18	-	2,197.15	42.61	\$ 2,239.76	\$ (332.65)
12/23/2021	(5,760.50)	2,644.15	1,327.43	\$ (1,788.92)	(855.00)	(393.91)	845.70	\$ (403.21)	-	(11.83)	110.03	\$ 98.20	-	1,846.89	(138.00)	\$ 1,708.89	\$ (385.04)
12/24/2021	(5,937.98)	3,018.03	1,828.35	\$ (1,091.60)	(1,157.50)	(577.36)	689.17	\$ (1,045.69)	-	-	103.71	\$ 103.71	-	1,262.24	(37.97)	\$ 1,224.27	\$ (809.31)
12/25/2021	(5,535.79)	3,796.27	1,261.48	\$ (478.04)	(1,519.30)	(161.44)	900.74	\$ (780.00)	-	(0.01)	109.21	\$ 109.20	-	1,127.28	17.04	\$ 1,144.32	\$ (4.52)
12/26/2021	(3,060.94)	2,417.41	1,190.56	\$ 547.03	(875.79)	61.30	494.52	\$ (319.97)	-	(0.38)	110.03	\$ 109.65	-	119.35	(60.33)	\$ 59.02	\$ 395.73
12/27/2021	(2,354.69)	558.19	1,225.88	\$ (570.62)	(809.14)	(585.24)	796.0										

Table 6-E: Contingency Reserve Deployment Events

Date	Day of Week	Node	Contingency Reserve Deployment Failure Charge Amount	HE	Shortfall MW	Event MW Provided	Event MW Requested
6/7/2021	Monday	HIBBAR4	\$ 293.11	17	2.7	0.0	2.7

Total \$ 293.11 2.7

**Report Addressing the
Purchase Power Agreement with Manitoba Hydro**
Docket No. E015/M-10-961, dated March 11, 2011

On March 11, 2011, the Commission issued an Order in Docket No. E-015/M-10-961 approving Minnesota Power's Purchase Power Agreement with Manitoba Hydro for the period of January 2021 through December 2021. Order Point 4 required Minnesota Power to provide the following information in future annual automatic adjustment reports.

a) the number of times Manitoba Hydro offered Product B and/or C to Minnesota Power

See table below.

b) whether or not Minnesota Power accepted the power

See table below.

c) Minnesota Power's efforts to determine whether lower cost energy exists.

The short-term bilateral energy market in Minnesota is thinly traded. In the short-term markets, Minnesota Power has undertaken efforts to procure energy from sources in the bilateral market when there are not sufficient Minnesota Power resources available to meet customer load. To date, however, Minnesota Power has utilized the MISO market for most of its short-term energy needs.

d) the prices of alternative energy

Prices for alternative energy (MISO purchases) are equivalent to Product B & C energy purchased from MH.

e) *the cost comparison of energy under Product B and/or Product C and the alternative energy sources*

The price paid for Product B & C energy is defined as the **[TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS]**. This **[TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS]** price is equivalent to the **[TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS]**. Since most energy purchased is transacted with MISO, the price for Product B & C is the same as the alternate energy sources.

2021 MHEB Product B & C
Minnesota Power - Short-term Non-firm Energy Sale Agreement

	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Offered (MWh)	[TRADE SECRET DATA BEGINS]											
Product B	[TRADE SECRET DATA BEGINS]											
Product C	[TRADE SECRET DATA BEGINS]											
Total	[TRADE SECRET DATA BEGINS]											
Accepted (MWh)	[TRADE SECRET DATA BEGINS]											
Product B	[TRADE SECRET DATA BEGINS]											
Product C	[TRADE SECRET DATA BEGINS]											
Total	[TRADE SECRET DATA BEGINS]											
Curtailed (MWh)	[TRADE SECRET DATA BEGINS]											
Product B	[TRADE SECRET DATA BEGINS]											
Product C	[TRADE SECRET DATA BEGINS]											
Total	[TRADE SECRET DATA BEGINS]											
Accepted less Curtailment (MWh)	[TRADE SECRET DATA BEGINS]											
Product B	[TRADE SECRET DATA BEGINS]											
Product C	[TRADE SECRET DATA BEGINS]											
Total	[TRADE SECRET DATA BEGINS]											
Number of Instances Offered	[TRADE SECRET DATA BEGINS]											
Product B	[TRADE SECRET DATA BEGINS]											
Product C	[TRADE SECRET DATA BEGINS]											
Total	[TRADE SECRET DATA BEGINS]											
Number of Instances Accepted	[TRADE SECRET DATA BEGINS]											
Product B	[TRADE SECRET DATA BEGINS]											
Product C	[TRADE SECRET DATA BEGINS]											
Total	[TRADE SECRET DATA BEGINS]											

TRADE SECRET DATA ENDS]

Wind Curtailment Reporting

Oliver I and II

Docket No. E015/M-05-975, dated December 20, 2005

Bison Wind Energy

Docket No. E015/M-11-234, dated September 8, 2011

Docket No. E015/M-11-626, dated November 2, 2011

Nobles 2 Wind Energy Purchase Agreement

Docket No. E015/M-18-545, dated January 23, 2019

Oliver County I			
FPL Wind Energy in FAC (MWh)	Curtailements of Wind Energy MWh	Curtailement Payments by MP	Reason Codes
[TRADE SECRET DATA BEGINS			
Januray 2021			2
February 2021			2
March 2021			2
April 2021			2
May 2021			2
June 2021			2
July 2021			2
August 2021			2
September 2021			2
October 2021			2
November 2021			2
December 2021			2
Total			

TRADE SECRET DATA ENDS]

Oliver County II			
FPL Wind Energy in FAC (MWh)	Curtailements of Wind Energy MWh	Curtailement Payments by MP	Reason Codes
[TRADE SECRET DATA BEGINS			
Januray 2021			2
February 2021			2
March 2021			2
April 2021			2
May 2021			2
June 2021			2
July 2021			2
August 2021			2
September 2021			2
October 2021			2
November 2021			2
December 2021			2
Total			

TRADE SECRET DATA ENDS]

1. Minnesota Power’s refusal to accept Contract Energy at the Point of Delivery as a result of low load conditions that justify not accepting Contract Energy; or
2. The availability of less expensive energy from another source; or
3. Minnesota Power’s election to use non-firm transmission services to deliver Contract Energy.

Bison Wind Energy	
Delivered MWh	Lost MWh
[TRADE SECRET DATA BEGINS	
Januray 2021	
February 2021	
March 2021	
April 2021	
May 2021	
June 2021	
July 2021	
August 2021	
September 2021	
October 2021	
November 2021	
December 2021	
Total	

TRADE SECRET DATA ENDS]

Nobles 2 Wind Energy		
Nobles Wind Energy in FAC (MWh)	Curtailments of Wind Energy MWh	Curtailment Payments by MP
[TRADE SECRET DATA BEGINS		
Januray 2021		
February 2021		
March 2021		
April 2021		
May 2021		
June 2021		
July 2021		
August 2021		
September 2021		
October 2021		
November 2021		
December 2021		
Total		

TRADE SECRET DATA ENDS]

**Offsetting Revenues and/or Compensation
Received by Investor-Owned Utilities (IOUs)**

Docket No. E999/AA-10-884, dated April 6, 2012

Minnesota Power's Offsetting Revenues

For the Reporting Period of
January 1, 2021 through December 31, 2021

<u>Source</u>	<u>MWh</u>	<u>Offsetting Revenues /1</u>
[TRADE SECRET DATA BEGINS		
Total		
[TRADE SECRET DATA ENDS]		

/1 The costs associated with the Contract MWh used to support the sales shown above were included in the "Less Fuel Costs Recovered through Inter System Sales" line in the Fuel Clause calculation. The revenues associated with all purchased power contracts except for Wing River, Oliver County I, and Oliver County II, are for the sale of purchases that were no longer needed to cover load. The margins from these sales were passed through to the ratepayers in the Fuel Clause.

Generation Facilities Maintenance Expense
Docket No. E999/AA-06-1208, dated February 6, 2008

Minnesota Power
AAA Compliance Filing
Summary of Generation Maintenance Expenses

	FERC Acct	Final Rates	
		Test Year 2017 Docket No. E015/GR-16-664 [1]	2021 Actual Expenses [2]
<u>Steam Power Generation Maintenance</u>			
Maintenance Supervision and Engineering	510	\$4,913,827	\$3,159,240
Maintenance of Structures	511	\$582,993	\$622,402
Maintenance of Boiler Plant	512	\$16,051,910	\$9,303,697
Maintenance of Electric Plant	513	\$2,143,926	\$3,623,520
Maintenance of Misc. Steam Plant	514	\$5,109,261	\$3,910,670
Sub-Total Steam Power		<u>\$28,801,917</u>	<u>\$20,619,529</u>
<u>Hydraulic Power Generation Maintenance</u>			
Maintenance Supervision and Engineering	541	\$514,969	\$410,020
Maintenance of Structures	542	\$73,962	\$67,695
Maintenance of Reservoirs, Dams and Waterways	543	\$604,374	\$870,605
Maintenance of Electric Plant	544	\$1,581,601	\$952,155
Maintenance of Misc. Hydraulic Plant	545	\$1,058,911	\$908,002
Sub-Total Hydraulic Power		<u>\$3,833,817</u>	<u>\$3,208,477</u>
<u>Other Power Generation - Wind Maintenance</u>			
Maintenance Supervision and Engineering	551	\$19,855	\$0
Maintenance of Structures	552	\$15,000	\$2,339
Maintenance of Generating and Electric Plant	553	\$9,116,984	\$10,061,873
Maintenance of Misc. Other Pwr Generation Plt.	554	\$211,331	\$2,181,726
Sub-Total Other Power - Wind		<u>\$9,363,170</u>	<u>\$12,245,938</u>
TOTAL		<u><u>\$41,998,904</u></u>	<u><u>\$36,073,944</u></u>

[1] Docket E015/GR-16-664 Compliance Filing dated 6-28-18, Section VIII, Compliance Schedule 16, CCOSS, column Total Company

[2] 2021 report run 01/24/2022 by Accounting

Minnesota Power
Docket GR-16-664, Compliance Filing dated 6-28-18, Section VIII, CCSS,
FINAL 2017 General Rates

<u>Utility Operating Expense</u>	<u>FERC</u>	<u>Total</u>	<u>Final</u>	<u>Total Company</u>
<u>Operations & Maintenance Exp.</u>	<u>Acct No.</u>	<u>Amounts</u>	<u>Adjustments</u>	<u>Compliance 2017</u>
				<u>Cost of</u>
				<u>Service Model</u>
Steam Production Demand				
Supervision & Engineering	500	9,929,976	(2,721,120)	7,208,856
Steam Expenses	502	11,420,955	(987,888)	10,433,067
Steam from other sources	503	-		-
Electric Expenses	505	1,269,686		1,269,686
Miscellaneous	506	910,628		910,628
Maint. Structures	511	582,993		582,993
Misc Maint Plant	514	5,109,261		5,109,261
Total Demand Steam Production		29,223,499	(3,709,008)	25,514,491
Steam Production Energy:				
Maint. Supervision & Engineering	510	5,403,455	(489,628)	4,913,827
Maint. Boiler Plant	512	16,051,910		16,051,910
Main. Electric Plant	513	2,143,926		2,143,926
Total Steam Energy		23,599,291	(489,628)	23,109,663
MP Compliance Filing, Section VIII, pg 19 of 46		52,822,790	(4,198,636)	48,624,154
Hydro Production:				
Demand				
Operations Supervision & Engineering	535	2,412,823	(1,196,209)	1,216,614
Hydraulic Expenses	537	1,148,580	284,933	1,433,513
Electric Expenses	538	-		-
Miscellaneous	539	294,953		294,953
Maintenance Supervision & Engineering	541	626,777	(111,808)	514,969
Maint. Structures	542	73,962		73,962
Total Demand Hydro		4,557,095	(1,023,084)	3,534,011
Energy				
Maintenance of Reservoirs, Dams, and Waterways	543	604,374		604,374
Electric Plant	544	1,581,601		1,581,601
Maintenance of Misc Hydro Plant	545	1,058,911		1,058,911
MP Compliance Filing, Section VIII, pg 19 of 46		7,801,981	(1,023,084)	6,778,897
Other Power Generation (Wind Production)				
Operation & Engineering	546	3,031,660	(2,779,749)	251,911
Generation Expenses	548	481,200		481,200
Misc. Other Power Generation Expenses	549	258,931		258,931
Rents	550	3,203,516		3,203,516
Maintenance Supervision & Engineering	551	-	19,855	19,855
Maintenance of Structures	552	15,000		15,000
Maintenance of Generating and Electric Plant	553	9,116,984		9,116,984
Maintenance of Misc. Other Power Generation Plt.	554	211,331		211,331
MP Compliance Filing, Section VIII, pg 19 of 46		16,318,622	(2,759,894)	13,558,728
Other Power Supply- Demand				
System Control & Load Dispatching	556	761,740		761,740
Other Expenses	557	1,443,364		1,443,364
Total		2,205,104	-	2,205,104
MP Compliance Filing, Section VIII, pg 19 of 46				
Purchased Power				
Demand	555	56,837,152		56,837,152
Energy	555	185,835,391		185,835,391
Total Purchased Power		242,672,543	-	242,672,543
MP Compliance Filing, Section VIII, pg 19 of 46				
Fuel	501	144,986,433		144,986,433
MP Compliance Filing, Section VIII, pg 19 of 46				

Note: Classification of expenses between demand and energy are based on FERC methodology used in prior rate cases. Accounts 501,510,512,513, & 544 are energy related, all others are demand.

<u>Utility Operating Expense</u>	<u>FERC</u>	<u>Total</u>	<u>Final</u>	<u>Total Company</u>
<u>Operations & Maintenance Exp.</u>	<u>Acct No.</u>	<u>Amounts</u>	<u>Adjustments</u>	<u>Compliance 2017</u>
				<u>Cost of</u>
				<u>Service Model</u>
Transmission				
Operation Supervision & Engineering	560	4,260,432	1,847,901	6,108,333
Load Dispatching	561	-		-
Load Dispatching -Reliability	561.1	2,747,008		2,747,008
Load Disp.-monitoring/operate trans sys.	561.2	2,978,604		2,978,604
Scheduling, system control & dispatch	561.4	1,453,260		1,453,260
Reliability, Planning & Stds. Develop.	561.5	836,934		836,934
Transmission Service Studies	561.6	-		-
Generation Interconnection Studies	561.7	46,840		46,840
Reliability, Planning & Stds. Develop.	561.8	104,495		104,495
Station Expenses	562	-		-
Overhead Line Expenses	563	-		-
Transmission of Electricity by Others	565	70,410,144	(39,479,943)	30,930,201
Miscellaneous Transmission Expenses	566	791,934		791,934
Rents	567	1,809,998		1,809,998
Total Operation		85,439,649	(37,632,042)	47,807,607
Maintenance				
Supervision & Engineering	568	-		-
Maint Computer Hardware	569.1	-		-
Maint Computer Software	569.2	-		-
Maint Communications Equip.	569.3	2,735,764		2,735,764
Station Equipment	570	2,991,552		2,991,552
Overhead Lines	571	3,564,854		3,564,854
Maintenance of Misc. Transmission Plt.	573	140,594		140,594
Total Maintenance		9,432,764	-	9,432,764
Total Transmission Exp.		94,872,413	(37,632,042)	57,240,371
MP Compliance Filing, Section VIII, pg 19 of 46				
Regional Market Expenses	575.7	-		
Distribution				
Meters	586	1,067,176	(650,105)	417,071
Bulk Delivery				
Other Distribution				
Supervision & Engineering	580	1,388,711		1,388,711
Load Dispatching	581	-		-
Overhead Line Expenses	583	155,344		155,344
Underground Line Expenses	584	40,974		40,974
Street Lighting & Signal Systems	585	185,897		185,897
Customer Installations Expenses	587	-		-
Miscellaneous	588	8,109,378		8,109,378
Rents	589	-		-
Total Operation		10,947,480	(650,105)	10,297,375
Distribution Maintenance:				
Supervision & Engineering	590	805,544		805,544
Station Equipment	592	-		-
Overhead Lines	593	11,045,737		11,045,737
Underground Lines	594	1,256,834		1,256,834
Maintenance of Line Transformers	595	-		-
Street Lighting& Signal Systems	596	-		-
Meter Expenses	597	21,580		21,580
Miscellaneous	598	1,265,330		1,265,330
Total Maintenance		14,395,025		14,395,025
Total Distribution		25,342,505	(650,105)	24,692,400
MP Compliance Filing, Section VIII, pg 19 of 46				

<u>Utility Operating Expense</u> Operations & Maintenance Exp.	<u>FERC Acct No.</u>	<u>Total Amounts</u>	<u>Final Adjustments</u>	<u>Total Company Compliance 2017 Cost of Service Model</u>
Customer Accounts Expenses				
Meter Reading Expenses	902	1,138,982		1,138,982
Customer Records & Collection Exp	903	4,570,409		4,570,409
Customer Accts -Credit Cards	903	350,000	-	350,000
Uncollectible Accounts	904	750,996		750,996
Total Customer Accting COSS, Vol I		<u>6,810,387</u>	-	<u>6,810,387</u>
Customer Service & Info				
Operation				
Supervision	907	-		-
Customer Assistance Expenses	908	3,359,758		3,359,758
Misc Customer Service & Informational Exp	910	-		-
Conserv Improve Prog-energy	908	10,572,615	(125,000)	10,447,625
Total Customer Service & Info Expenses		<u>13,932,373</u>	<u>(125,000)</u>	<u>13,807,383</u>
Maintenance Supervision & Engineering				
Sales	913	43,321		43,321
MP Compliance Filing, Section VIII, pg 19		43,321	-	43,321
Administration & General				
Property Insurance	924	8,002,236		8,002,236
Regulatory Expenses- see note below at 1	928	1,251,193		1,251,193
Regulatory Expenses- see note below at 2.	928	1,084,000		1,084,000
Advertising	930.1	131,608		131,608
Miscellaneous General Expenses	930.2	173,414		173,414
Franchise Requirement Duluth Ordinance Assessmt	927	-	-	-
General Plant	935	4,757,908		4,757,908
Other A&G 920, 921, 925, 926		48,151,117	(7,750,412)	40,400,705
Total A&G		<u>63,551,476</u>	<u>(7,750,412)</u>	<u>55,801,064</u>
Retail Interest Expense for Customer Deposits	431.0-1002	1,071,000		1,071,000
Charitable Contributions	426.10	453,128		453,128
Total Operations & Maintenance Exp.		672,884,076	(54,139,173)	618,744,913

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

Fuel Source Procurement Policies

A. Summary of Coal Contracts

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

A 2002 Master Coal Purchase Agreement signed on [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] provides general terms and definitions governing purchases and sales of coal.

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

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

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

Kennecott Coal Sales LLC, an Oregon LLC (currently known as Navajo Transitional Energy Company, and formerly known as both Cloud Peak Energy and Rio Tinto Energy), Antelope Mine, Campbell and Converse Counties, Wyoming

A 2002 Master Coal Purchase Agreement signed on [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] provides general terms and definitions governing purchases and sales of coal.

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

Arch Coal Sales, Black Thunder Mine, Wright, Wyoming

A 2010 Master Coal Purchase Agreement signed on [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] provides general terms and definitions governing purchases and sales of coal.

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

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

An agreement signed on [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS] also provides for purchases of a minimum of [TRADE SECRET DATA BEGINS [REDACTED] TRADE SECRET DATA ENDS]

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

Peabody CoalSales, LLC., St. Louis, Missouri, North Antelope Rochelle Mine, Campbell and Converse Counties, Wyoming

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

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

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

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

B. Summary of Biomass Contracts

Currently Minnesota Power purchases wood fuel under purchase orders with 10 separate suppliers for use at the Hibbard Renewable Energy Center with varying expiration dates. These type of purchases are expected to continue in 2021.

C. Summary of Rail Contracts

Burlington Northern Santa Fe (currently known as BNSF Railway)

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

D. Summary of Supplemental Fuels

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

E. Fuel Cost Minimization Activities

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

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

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

Energy Source Procurement and Dispatching Policies

A. Short Term Activities

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

Minnesota Power's (MP) generation resources, load, and transmission assets are located within the MISO footprint and are part of the MISO market. The MISO markets are used to balance generation with load and to minimize congestion and loss costs between generation and load. There are a variety of tools that MP uses to help with analysis and participation in the MISO market. Minnesota Power offers to sell energy and ancillary services sourced from its supply resources and bids to buy energy to serve load in the MISO market each day. MISO procures enough market ancillary service products to meet the short-term reliability needs of the entire footprint and MP is allocated its load ratio share of the costs to procure the needed ancillary services. If market clearing prices are

above Minnesota Power's generator offer prices, MP generation will be selected to serve MP load. If market prices are below MP generator offers, other lower cost resources within MISO or areas that border the MISO north region are used to serve MP load, and MP's generation will be backed down. MP also has a short-term strategy to buy energy in the bilateral market when there is an energy need and purchases can be made below expected MISO day-ahead costs.

B. Medium Term Activities

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

Planned generator outages are usually known about a year or more in advance. When a significant energy deficit is identified, MP monitors the wholesale market for least cost supply opportunities and enters into bilateral purchases to maintain volumetric position limits as outlined in MP's Power Marketing Risk Management Policy. If forward energy prices drop below forecasted spot market prices the entire short position could be covered with a bilateral purchase prior to the start of the outage. If lower cost energy is available in the areas that border the MISO north region, MP may choose to use bilateral purchases from those border areas to cover a generator outage.



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



Notice of Reports Availability

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

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

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

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

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

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

Certificate of Service

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

Minnesota Power

By:

/s/ Hillary A. Creurer

Hillary A. Creurer

Regulatory Compliance Administrator

Dated: March 1, 2022

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Jorge	Alonso	jorge.alonso@state.mn.us	Public Utilities Commission	121 7th Place East Suite 350 St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Lori	Andresen	info@sosbluewater.org	Save Our Sky Blue Waters	P.O. Box 3661 Duluth, Minnesota 55803	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Jessica L	Bayles	Jessica.Bayles@stoel.com	Stoel Rives LLP	1150 18th St NW Ste 325 Washington, DC 20036	Electronic Service	Yes	OFF_SL_19-442_Official CC Service List
Peter	Beithon	pbeithon@otpc.com	Otter Tail Power Company	P.O. Box 496 215 South Cascade Street Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_19-442_Official CC Service List
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David	Cartella	David.Cartella@cliffsnr.com	Cliffs Natural Resources Inc.	200 Public Square Ste 3300 Cleveland, OH 44114-2315	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Greg	Chandler	greg.chandler@upm.com	UPM Blandin Paper	115 SW First St Grand Rapids, MN 55744	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Steve W.	Chriss	Stephen.chriss@walmart.com	Wal-Mart	2001 SE 10th St. Bentonville, AR 72716-5530	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_19-442_Official CC Service List
Riley	Conlin	riley.conlin@stoel.com	Stoel Rives LLP	33 S. 6th Street Suite 4200 Minneapolis, MN 55402	Electronic Service	Yes	OFF_SL_19-442_Official CC Service List
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Sean	Copeland	seancopeland@fdlrez.com	Fond du Lac Band of Lake Superior Chippewa	1720 Big Lake Rd Cloquet, MN 55720	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Hillary	Creurer	hcreurer@allete.com	Minnesota Power	30 W Superior St Duluth, MN 55802	Electronic Service	No	OFF_SL_19-442_Official CC Service List

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Richard	Dornfeld	Richard.Dornfeld@ag.state.mn.us	Office of the Attorney General-DOC	Minnesota Attorney General's Office 445 Minnesota Street, Suite 1800 Saint Paul, Minnesota 55101	Electronic Service	No	OFF_SL_19-442_Official CC Service List
J.	Drake Hamilton	hamilton@fresh-energy.org	Fresh Energy	408 St Peter St Ste 350 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Brian	Edstrom	briane@cubminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota St Ste W1360 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Ron	Elwood	relwood@mnlsap.org	Mid-Minnesota Legal Aid	2324 University Ave Ste 101 Saint Paul, MN 55114	Electronic Service	No	OFF_SL_19-442_Official CC Service List
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Bruce	Gerhardson	bgerhardson@otpc.com	Otter Tail Power Company	PO Box 496 215 S Cascade St Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_19-442_Official CC Service List

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Jerome	Hall	hallj@stlouiscountymn.gov	Saint Louis County Property Mgmt Dept	Duluth Courthouse 100 N 5th Ave W Rm 515 Duluth, MN 55802-1209	Electronic Service	No	OFF_SL_19-442_Official CC Service List
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Katherine	Hinderlie	katherine.hinderlie@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota St Suite 1400 St. Paul, MN 55101-2134	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Lori	Hoyum	lhoyum@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_19-442_Official CC Service List
James	Jarvi	N/A	Minnesota Ore Operations - U S Steel	P O Box 417 Mountain Iron, MN 55768	Paper Service	No	OFF_SL_19-442_Official CC Service List

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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_19-442_Official CC Service List
Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Kelsey	Johnson	info@taconite.org	Iron Mining Association	324 West Superior St Ste 502 Duluth, MN 55802	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Nicolas	Kaylor	nkaylor@mojlaw.com		120 South 6th St Ste 2400 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Travis	Kolari	N/A	Keetac	PO Box 217 Keewatin, MN 55753	Paper Service	No	OFF_SL_19-442_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_19-442_Official CC Service List
Becky	Lammi	cityclerk@ci.aurora.mn.us	City of Aurora	16 W 2nd Ave N PO Box 160 Aurora, MN 55705	Electronic Service	No	OFF_SL_19-442_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_19-442_Official CC Service List
David	Langmo	david.langmo@sappi.com	Sappi North America	P O Box 511 2201 Avenue B Cloquet, MN 55720	Electronic Service	No	OFF_SL_19-442_Official CC Service List

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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Emily	Larson	eLarson@duluthmn.gov	City of Duluth	411 W 1st St Rm 403 Duluth, MN 55802	Electronic Service	No	OFF_SL_19-442_Official CC Service List
James D.	Larson	james.larson@avantenergy.com	Avant Energy Services	220 S 6th St Ste 1300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Annie	Levenson Falk	annief@cupminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota Street, Suite W1360 St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-442_Official CC Service List
LeRoger	Lind	llind@yahoo.com	Save Lake Superior Association	P.O. Box 101 Two Harbors, MN 55616	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Eric	Lindberg	elindberg@mncenter.org	Minnesota Center for Environmental Advocacy	1919 University Avenue West Suite 515 Saint Paul, MN 55104-3435	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Eric	Lipman	eric.lipman@state.mn.us	Office of Administrative Hearings	PO Box 64620 St. Paul, MN 551640620	Electronic Service	Yes	OFF_SL_19-442_Official CC Service List
Patrick	Loupin	PatrickLoupin@Packaging Corp.com	Packaging Corporation of America	PO Box 990050 Boise, ID 83799-0050	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Susan	Ludwig	sludwig@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_19-442_Official CC Service List
Kavita	Maini	kmains@wi.rr.com	KM Energy Consulting, LLC	961 N Lost Woods Rd Oconomowoc, WI 53066	Electronic Service	No	OFF_SL_19-442_Official CC Service List

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TRADE SECRET DATA EXCISED

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

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 TRADE SECRET DATA EXCISED

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

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TRADE SECRET DATA EXCISED

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

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

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TRADE SECRET DATA EXCISED

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

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

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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Kevin	Adams	kadams@caprw.org	Community Action Partnership of Ramsey & Washington Counties	450 Syndicate St N Ste 35 Saint Paul, MN 55104	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Lori	Andresen	info@sosbluewater.org	Save Our Sky Blue Waters	P.O. Box 3661 Duluth, Minnesota 55803	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Jessica L	Bayles	Jessica.Bayles@stoel.com	Stoel Rives LLP	1150 18th St NW Ste 325 Washington, DC 20036	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Peter	Beithon	pbeithon@otpc.com	Otter Tail Power Company	P.O. Box 496 215 South Cascade Street Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Sara	Bergan	sebergan@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Kristin	Berkland	kristin.berkland@ag.state.mn.us	Office of the Attorney General-RUD	445 Minnesota Street Bremer Tower, Suite 1400 St. Paul, MN 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List
David F.	Boehm	dboehm@bkllawfirm.com	Boehm, Kurtz & Lowry	36 E 7th St Ste 1510 Cincinnati, OH 45202	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Elizabeth	Brama	ebrama@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 South 8th Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Jon	Brekke	jbrekke@greenergy.com	Great River Energy	12300 Elm Creek Boulevard Maple Grove, MN 553694718	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Christina	Brusven	cbrusven@fredlaw.com	Fredrikson Byron	200 S 6th St Ste 4000 Minneapolis, MN 554021425	Electronic Service	No	OFF_SL_21-335_Official CC Service List

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TRADE SECRET DATA EXCISED

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

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

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

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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Kelsey	Johnson	info@taconite.org	Iron Mining Association	324 West Superior St Ste 502 Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Travis	Kolari	N/A	Keetac	PO Box 217 Keewatin, MN 55753	Paper Service	No	OFF_SL_21-335_Official CC Service List
Michael	Krikava	mkrikava@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S 8th St Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Becky	Lammi	cityclerk@ci.aurora.mn.us	City of Aurora	16 W 2nd Ave N PO Box 160 Aurora, MN 55705	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Carmel	Laney	carmel.laney@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
David	Langmo	david.langmo@sappi.com	Sappi North America	P O Box 511 2201 Avenue B Cloquet, MN 55720	Electronic Service	No	OFF_SL_21-335_Official CC Service List
James D.	Larson	james.larson@avantenergy.com	Avant Energy Services	220 S 6th St Ste 1300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Emily	Larson	eLarson@duluthmn.gov	City of Duluth	411 W 1st St Rm 403 Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List

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

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

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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Michael	Noble	noble@fresh-energy.org	Fresh Energy	408 Saint Peter St Ste 350 Saint Paul, MN 55102	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Rolf	Nordstrom	rnordstrom@gpisd.net	Great Plains Institute	2801 21ST AVE S STE 220 Minneapolis, MN 55407-1229	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Christopher J.	Oppitz	N/A	-	PO Box 910 Park Rapids, MN 56470-0910	Paper Service	No	OFF_SL_21-335_Official CC Service List
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William	Phillips	wphillips@aarp.org	AARP	30 E. 7th St Suite 1200 St. Paul, MN 55101	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Marcia	Podratz	mpodratz@mnpower.com	Minnesota Power	30 W Superior S Duluth, MN 55802	Electronic Service	No	OFF_SL_21-335_Official CC Service List
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Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_21-335_Official CC Service List
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Ralph	Riberich	rriberich@uss.com	United States Steel Corp	600 Grant St Ste 2028 Pittsburgh, PA 15219	Electronic Service	No	OFF_SL_21-335_Official CC Service List
Buddy	Robinson	buddy@citizensfed.org	Minnesota Citizens Federation NE	2110 W. 1st Street Duluth, MN 55806	Electronic Service	No	OFF_SL_21-335_Official CC Service List
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Robert H.	Schulte	rhs@schulteassociates.com	Schulte Associates LLC	1742 Patriot Rd Northfield, MN 55057	Electronic Service	No	OFF_SL_21-335_Official CC Service List

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Jessica	Tritsch	jessica.tritsch@sierraclub.org	Sierra Club	2327 E Franklin Ave Minneapolis, MN 55406	Electronic Service	No	OFF_SL_21-335_Official CC Service List

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Scott	Zahorik	scott.zahorik@aeoa.org	Arrowhead Economic Opportunity Agency	702 S. 3rd Avenue Virginia, MN 55792	Electronic Service	No	OFF_SL_21-335_Official CC Service List