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March 1, 2021

VIA E-FILING

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

Re: **In the Matter of Minnesota Power's
Annual Automatic Adjustment of Charge Report
Docket No. E015/AA-19-302
Annual True Up Report**

Dear Mr. Seuffert:

Minnesota Power respectfully submits to the Minnesota Public Utilities Commission its Annual Automatic Adjustment True Up Report of Forecasted Fuel and Purchased Energy rates for the calendar year 2020 pursuant to the decisions rendered by the Commission in Docket No. E999/CI-03-802 and where applicable, in compliance with Minnesota Rules 7825.2800 to 7825.2840 governing Automatic Adjustment of Charges.

Please contact me at (218) 355-3455 or hcreurer@allete.com if you have any questions regarding this compliance filing.

Yours truly,

Hillary A. Creurer
Regulatory Compliance Administrator

HAC:th
Attach.

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

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

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

I. Introduction

On November 14, 2019, the Minnesota Public Utilities Commission (“Commission”) approved Minnesota Power’s (or the “Company”) January 2020 through December 2020 Forecasted Rates for its Rider for Fuel and Purchased Energy Charge (“Fuel Adjustment Clause” or “FAC”).

On June 30, 2020, the Commission approved Minnesota Power’s Resolution Proposal Petition¹ (“Resolution Proposal”) to resolve and ultimately withdraw the 2019 Rate Case. In the Resolution Proposal the Company proposed retaining rates set in the 2016 Rate Case but shifting the recovery of its energy and capacity asset-based wholesale sales margins (“asset-based margins”) from base rates to its fuel adjustment clause.

On July 1, 2020, Minnesota Power updated the 2020 FAC Forecasted rates to reflect the shift in the recovery of asset-based margins from base rates to the FAC.

On July 31, 2020, Minnesota Power submitted Reply Comments in the 2021 FAC Forecast Docket² indicating it would reduce the 2020 FAC Forecast by \$12.2 million over a four month period beginning in September 2020. The \$12.2 million reduction was based on actual over-collection of fuel and purchases for the first six months of 2020.

¹ Docket Nos. E015/GR-19-442 and E015/M-20-429

² Docket No. E015/AA-20-463

II. Description and Purpose of Filing

In compliance with Minn. Rules 7825.2800 through 7825.2840 and Docket No. E999/CI-03-802, Minnesota Power hereby submits to the Commission the following reports and information related to the 2020 FAC Forecast True-up:

Attachment No. 1	Independent Auditor's Report on Minnesota Power's Accounting for Automatic Adjustments during the period of January 2020 through December 2020 (MN Rule 7825.2820).
Attachment No. 2	Forecast to Actual Comparison of Automatic Adjustment Charges for the period of January 2020 through December 2020. <u>Please note this document contains Trade Secret Data.</u>
Attachment No. 3	Monthly MISO Day 2 Charges and Allocation.
Attachment No. 4	Auction Revenue Rights Process and Information. <u>Please note this document contains Trade Secret Data.</u>
Attachment No. 5	Plant Outage Reporting. <u>Please note this document contains Trade Secret Data.</u>
Attachment No. 6	Annual and Daily ASM Charges and Summary.
Attachment No. 7	Report Addressing the Purchase Power Agreement with Manitoba Hydro. <u>Please note this document contains Trade Secret Data.</u>
Attachment No. 8	Wind Curtailment Reporting. <u>Please note this document contains Trade Secret Data.</u>
Attachment No. 9	Offsetting Revenues and/or Compensation Received by Investor-Owned Utilities (IOUs). <u>Please note this document contains Trade Secret Data.</u>
Attachment No. 10	Generation Facilities Maintenance Expenses Report.
Attachment No. 11	Notice of Reports Availability, Certificate of Service and Service Lists.

In the June 2019 Order in Docket No. E999/CI-03-802, Order Point 7 states:

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.

Than 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 compliance report regarding self-commitment and self-scheduling of large base load generators will be included as part of Docket No. E999/CI-19-704.

III. 2020 FAC Forecast to Actuals

Minnesota Power recommends a FAC True-up credit of approximately \$3.7 million based on a comparison of the 2020 FAC Forecast collected fuel and purchases to actual fuel and purchases, as shown on page 7 of Attachment 2.

Table 1: Over/(Under) Collection Credit

2020 Forecast to Actual Over Collection	\$12,574,977
Less: Over Collection Credit Applied in 2020	\$8,913,507
Remaining Over Collection Credit	\$3,661,470

In Reply Comments submitted on July 31, 2020, in the 2021 FAC Forecast Docket³ the Company agreed to reduce the 2020 FAC Forecast by \$12.2 million over a four month period beginning in September 2020. The \$12.2 million reduction, based on actuals for the first six months of 2020, was applied to September through December 2020 by

³ Docket No. E015/AA-20-463

reducing the forecasted rate applied to customer bills. Due to lower sales than forecasted approximately \$8.9 million of the \$12.2 million was applied in 2020.

Table 2 below provides a comparison of the 2020 FAC Forecast which was updated on July 1, 2020 to include asset-based margins as a result of Minnesota Power's Rate Case Resolution⁴.

Table 2: Fuel Cost Summary

2020 Forecasted Fuel	07/01/2020 Updated Forecast	2020 Actual	Difference
Company's Generating Stations	\$103,248,928	\$76,291,182	\$(26,957,746)
Plus: Purchased Energy	\$198,857,794	\$193,346,294	\$(5,511,500)
Plus: MISO Charges	\$12,154,321	\$16,466,491	\$4,312,170
Less: MISO Schedules 16, 17 & 24	\$333,698	\$(164,843)	\$(498,542)
Less: Fuel Cost Recovered through Inter System Sales	\$78,133,355	\$97,823,379	\$19,690,024
Less: Costs Related to Solar	\$101,692	\$70	\$(101,623)
Plus: Time of Generation and Solar Energy Adjustment	\$519,336	\$432,548	\$(86,788)
Total Cost of Fuel	\$236,211,634	\$188,877,910	\$(47,333,723)
Total Fuel Clause Sales (MWh)	9,764,655	8,436,693	(1,327,962)

Due to the COVID-19 Pandemic a number of the original assumptions included in the 2020 FAC Forecast ended up being different than actuals.

Sales

Customer sales decreased by approximately 549,000 MWhs. The decrease is mainly due to the idling of large industrial customers.

Inter System sales increased by approximately 1,368,448 MWhs. However, Inter System sales are removed from the Total Sales of Electricity as they are non-FAC MWhs. The main reason for the increase in Inter System sales is due to MISO market sales, liquidated sales, and retail and resale loss of load sales. Minnesota Power did not forecast market sales and liquidated sales. Market sales were not forecasted in the 2020 forecast as it was determined that every month had a market purchase. Because of this, no market sales were forecasted as the model does not create a purchase and a sale for a month. Actuals are looked at hourly so there will be hours where Minnesota

⁴ Docket Nos. E015/GR-19-442 and E015/M-20-429

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 also 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. Also, retail and resale loss of load sales were not anticipated when the 2020 forecast was filed. Due to the COVID-19 pandemic, large power customer load decreased in 2020 and sales were made to replace the loss of load.

Table 3: Sales Comparison

2020 Sales (MWh)	Forecasted Sales	Actual Sales	Difference
Total Sales of Electricity	12,830,542	12,868,727	38,185
Residential	1,049,317	1,046,011	(3,306)
Commercial	1,254,765	1,134,254	(120,511)
Industrial	5,742,123	5,395,795	(346,328)
Municipals	1,355,385	1,340,290	(15,095)
Other Miscellaneous	381,531	316,907	(64,624)
Inter System Sales	3,047,421	3,635,470	588,049
Less: Inter System Sales	3,047,421	4,415,869	1,368,448
Customer Intersystem Sales	847,016	780,399	(66,617)
Market Sales	2,194,233	3,112,893	918,659
Station Service	6,172	4,521	(1,650)
Sales due to Retail and Resale Loss of Load	-	518,056	518,056
Less: Solar Generation & Purchases	18,466	16,165	(2,301)
Total Fuel Clause Sales	9,764,655	8,436,693	(1,327,962)

Generation

A major planned outage at Boswell Unit 4 originally planned for the spring of 2020 was postponed until the spring of 2021. Due to the COVID-19 pandemic Minnesota Power implemented certain protocols at the facility to minimize employee and community exposure. This movement allowed for additional time to plan for and mitigate the employee and community risks associated with executing the outage during a pandemic.

In July 2020 Hibbard Energy Center and in July and August 2020 Laskin Energy Center were picked up by MISO for reliability. Both Hibbard Energy Center and Laskin Energy Center ran more than planned in the forecast.

Market Prices

Table 4 below compares the average MISO Market price used in the 2020 FAC Forecast to 2020 actual average MISO Market prices.

Table 4: Average Market Price Comparison

S/MWh	2020		Difference
	FAC Forecast	2020 Actual	
[TRADE SECRET DATA BEGINS			
Average Market Price	[REDACTED]	[REDACTED]	[REDACTED]
TRADE SECRET DATA ENDS]			

IV. True-up Proposal

Minnesota Power proposes the 2020 FAC True-up be credited to customers over a 12-month period beginning September 1, 2021 per the timeline provided in Docket No. E999/CI-03-802. The true-up credit rate applied to customer bills will be based off of forecasted sales for September 2021 through August 2022. At this time Minnesota Power does not have an approved 2022 Forecast but will align forecasted sales once approved.

V. Conclusion

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, 2021

Respectfully Submitted,



Hillary A. Creurer
Regulatory Compliance Administrator
Minnesota Power
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(218) 355-3455
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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”), 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, 2020 through December 31, 2020 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. Management is responsible for the Company’s compliance with those requirements. The sufficiency of these procedures is solely the responsibility of the parties specified in this report. Consequently, we make no representation regarding the sufficiency of the procedures enumerated below either for the purpose for which this report has been requested or for any other purpose.

The procedures performed on Section A of the Company’s Annual Report are summarized as follows:

1. For the period January 1, 2020 through December 31, 2020, 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, 2020 through December 31, 2020, 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, 2020 through December 31, 2020 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, 2020 through December 31, 2020. 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, 2020 through December 31, 2020, 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, 2020 through December 31, 2020 to the Company’s general ledger. No corrections or other billing errors were noted.
7. For the period January 1, 2020 through December 31, 2020, 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, 2020 through December 31, 2020, 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, 2020 through December 31, 2020, 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. We were not engaged to and did not conduct an examination or review, the objective of which would be the expression of an opinion or conclusion, respectively, on Section A of Minnesota Power's Annual Report of Automatic Adjustment Changes for the period January 1, 2020 through December 31, 2020 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.

This report is intended solely for the information and use 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.

PricewaterhouseCoopers LLP

Minneapolis, MN
March 1, 2021

**PUBLIC DOCUMENT –
TRADE SECRET DATA EXCISED**

**Automatic Retail Fuel Adjustment Charges
Forecast to Actual Comparison**

January 1, 2020 through December 31, 2020

Minn. Rule 7825.2810

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

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

A. Summary Forecast vs. Actual Automatic Adjustment Charges:

Ref. No.	Revenue/Accounting Month Cost of Fuel	YTD 2020			Jan-20			Feb-20		
		Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)
1	Company's Generating Stations	\$103,248,928	\$76,291,182	(\$26,957,746)	\$10,437,192	\$8,487,119	(\$1,950,073)	\$10,039,440	\$7,289,856	(\$2,749,584)
	Thermal	\$103,248,928	\$76,291,181	(\$26,957,747)	\$10,437,192	\$8,487,119	(\$1,950,073)	\$10,039,440	\$7,289,856	(\$2,749,584)
	Wind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Hydro	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Plus: Purchased Energy	\$198,857,794	\$193,346,294	(\$5,511,500)	\$15,928,466	\$15,801,460	(\$127,007)	\$13,763,069	\$15,129,093	\$1,366,024
	Market	\$144,475,402	\$147,518,981	\$3,043,579	\$11,456,567	\$12,047,677	\$591,109	\$10,228,630	\$11,378,407	\$1,149,778
	Wind	\$17,858,180	\$15,267,492	(\$2,590,687)	\$1,287,894	\$964,225	(\$323,669)	\$944,985	\$843,488	(\$101,497)
	Solar	\$101,692	\$70	(\$101,623)	\$0	\$0	\$0	\$0	\$0	\$0
	Square Butte	\$36,422,520	\$30,559,753	(\$5,862,767)	\$3,184,005	\$2,789,558	(\$394,447)	\$2,589,455	\$2,907,198	\$317,743
3	Plus: MISO Charges 1/	\$12,154,321	\$16,466,491	\$4,312,170	\$1,317,727	\$974,150	(\$343,577)	\$691,763	\$480,610	(\$211,153)
4	Less: MISO Schedules 16 & 17 & 24 1/	\$333,698	(\$164,843)	(\$498,542)	\$26,382	\$3,610	(\$22,771)	\$25,516	(\$34,186)	(\$59,702)
	Schedule 16	\$1,325,001	\$1,449,109	\$124,108	\$108,694	\$149,714	\$41,020	\$108,290	\$118,917	\$10,627
	Schedule 17	\$208,697	\$31,342	(\$177,356)	\$17,688	\$2,996	(\$14,693)	\$17,226	\$2,614	(\$14,613)
	Schedule 24	(\$1,200,000)	(\$1,645,294)	(\$445,294)	(\$100,000)	(\$149,099)	(\$49,099)	(\$100,000)	(\$155,717)	(\$55,717)
5	Less: Fuel Cost Recovered Through Inter System Sales	\$78,133,355	\$97,823,379	\$19,690,024	\$6,719,451	\$7,874,496	\$1,155,045	\$6,043,496	\$7,623,800	\$1,580,305
	Customer Inter-System Sales	\$23,348,819	\$17,776,862	(\$5,571,958)	\$2,133,405	\$1,731,038	(\$402,366)	\$2,027,029	\$1,704,017	(\$323,012)
	Market Sales	\$47,383,413	\$61,460,307	\$14,076,894	\$4,392,551	\$5,978,476	\$1,585,926	\$3,905,855	\$5,827,405	\$1,921,551
	Station Service	\$169,376	\$74,171	(\$95,205)	\$4,337	\$2,330	(\$2,007)	\$4,337	\$777	(\$3,560)
	MISO Costs 1/	\$1,600,445	\$1,780,984	\$180,539	\$189,159	\$162,651	(\$26,507)	\$106,275	\$91,601	(\$14,674)
	Sales due to Retail and Resale Loss of Load	\$0	\$13,059,320	\$13,059,320	\$0	\$0	\$0	\$0	\$0	\$0
	Asset Based Margins	\$5,631,302	\$3,671,735	(\$1,959,567)	\$0	\$0	\$0	\$0	\$0	\$0
6	Less: Costs Related to Solar	\$101,692	\$70	(\$101,623)	\$0	\$0	\$0	\$0	\$0	\$0
7	Plus: Time of Generation and Solar Energy Adjustment	\$519,336	\$432,548	(\$86,788)	\$25,930	\$14,711	(\$11,220)	\$35,211	\$38,065	\$2,854
8	Plus: Over/Under Credit or Charge	(\$12,193,312)	\$0	\$12,193,312	\$0	\$0	\$0	\$0	\$0	\$0
9	Total Monthly Cost of Fuel	\$224,018,322	\$188,877,910	(\$35,140,411)	\$20,963,483	\$17,399,333	(\$3,564,151)	\$18,460,472	\$15,348,010	(\$3,112,461)
			% Difference	16%						
10	Total Sales of Electricity	12,830,542	12,868,727	38,185	1,186,813	1,222,345	35,532	1,063,895	1,185,310	121,415
	Residential	1,049,317	1,046,011	(3,306)	125,895	109,546	(16,149)	100,405	107,258	6,853
	Commercial	1,254,765	1,134,254	(120,511)	110,831	104,730	(6,101)	106,522	105,964	(2,558)
	LP Tacolite	4,535,936	4,295,593	(240,343)	396,648	447,095	50,447	356,792	428,211	71,419
	LP Paper and Pulp	872,212	752,072	(120,140)	74,428	75,409	981	67,472	76,663	9,191
	LP Pipeline	333,975	348,130	14,155	30,873	35,482	4,609	29,710	35,438	5,728
	Municipals	1,355,385	1,340,290	(15,095)	128,126	129,937	1,811	112,748	120,081	7,333
	Other Misc.	381,531	316,907	(64,624)	32,068	30,453	(1,615)	30,885	29,664	(1,221)
	Inter System Sales	3,047,421	3,635,470	588,049	288,144	289,692	1,548	257,361	282,031	24,671
11	Less: Inter System Sales	\$3,047,421	\$4,415,869	\$1,368,448	\$288,144	\$360,383	\$72,239	\$257,361	\$355,824	\$98,463
	Customer Inter-System Sales	847,016	780,399	(66,617)	74,382	70,691	(3,691)	71,957	73,793	1,836
	Market Sales	2,194,233	3,112,893	918,659	213,594	289,595	76,001	185,236	281,987	96,751
	Station Service	6,172	4,521	(1,650)	167	97	(70)	167	44	(123)
	Sales due to Retail and Resale Loss of Load	0	518,056	518,056	0	0	0	0	0	0
12	Less: Solar Generation and Purchased MWh	18,466	16,165	(2,301)	868	424	(444)	1,117	1,378	260
13	Total Monthly MWh Sales	9,764,655	8,436,693	(1,327,962)	897,801	861,539	(36,262)	805,417	828,108	22,691
			% Difference	14%						
14	Fuel Adjustment Charge Fuel Clause (¢/kWh)	2.294	2.239	(0.055)	2.335	2.020	(0.315)	2.292	1.853	(0.439)
			% Difference	2%						
1	1 Month Average Cost of Fuel by Energy Type (¢/kWh)									
	Billing Month:									

B. Summary Over/Under Recovery

Ref. No.	Revenue Class Over/Under Recovery	YTD 2020			Jan 20			Feb 20		
		Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)
1	Residential	\$162,690,593	\$159,029,124	(\$3,661,470)	\$17,094,412	\$14,787,414	(\$2,306,999)	\$16,269,249	\$13,151,350	(\$3,117,899)
	Commercial	\$24,324,873	\$23,683,155	(\$641,718)	\$2,593,139	\$2,242,716	(\$350,423)	\$2,491,907	\$2,014,755	(\$477,152)
	Industrial	\$26,648,163	\$26,230,218	(\$417,946)	\$2,501,643	\$2,164,247	(\$337,397)	\$2,485,248	\$2,008,668	(\$476,580)
	Lighting	\$110,389,119	\$107,806,415	(\$2,582,704)	\$11,883,442	\$10,279,933	(\$1,603,509)	\$11,175,004	\$9,033,292	(\$2,141,712)
	Municipal Pumping	\$239,055	\$233,266	(\$5,789)	\$23,772	\$25,757	\$4,015	\$26,277	\$21,238	\$5,039
		\$1,089,383	\$1,076,070	(\$13,313)	\$86,416	\$74,761	(\$11,655)	\$90,813	\$73,397	\$17,416
			% Difference	2%						

NOTES

1/ See Attachment 3 for MISO Costs Breakdown and Assumptions

2/ The Total One Month Average Cost (Ref. No. 26) was only provided for the original forecast submitted 5/1/2019. Because of this, the Total One-Month Average Cost (Ref. No. 26) will not match the 1-Month Average Cost of Fuel (Ref. No. 14) for July 2020 - December 2020 due to updated forecasts submitted in 2020 to include Asset Based Margins (6/2020 - 12/2020) and an Over Collection Credit (9/2020 - 12/2020)

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

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

A. Summary Forecast vs. Actual Automatic Adjustment Charges:

Ref. No.	Revenue/Accounting Month Cost of Fuel	Jun-20			Jul-20			Aug-20		
		Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)
1	Company's Generating Stations	\$8,542,479	\$5,444,755	(\$3,097,724)	\$10,765,379	\$8,640,861	(\$2,124,518)	\$10,374,569	\$7,179,962	(\$3,194,607)
	Thermal	\$8,542,479	\$5,444,754	(\$3,097,725)	\$10,765,379	\$8,640,861	(\$2,124,518)	\$10,374,569	\$7,179,962	(\$3,194,607)
	Wind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Hydro	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Plus: Purchased Energy	\$15,586,253	\$15,188,384	(\$397,869)	\$16,847,699	\$15,670,622	(\$1,177,077)	\$16,985,352	\$17,978,091	\$992,739
	Market	\$12,080,252	\$12,025,341	(\$54,911)	\$12,911,534	\$13,056,677	\$145,143	\$13,008,536	\$14,920,238	\$1,911,702
	Wind	\$822,466	\$536,666	(\$285,800)	\$752,160	\$497,176	(\$254,985)	\$792,811	\$578,901	(\$213,910)
	Solar	\$0	\$3	\$3	\$0	\$0	\$0	\$0	\$2	\$2
	Square Butte	\$2,683,535	\$2,626,374	(\$57,161)	\$3,184,005	\$2,116,769	(\$1,067,236)	\$3,184,005	\$2,478,950	(\$705,055)
3	Plus: MISO Charges 1/	\$1,043,228	\$694,789	(\$348,439)	\$1,398,363	\$2,221,896	\$823,533	\$1,364,563	\$1,045,255	(\$319,308)
4	Less: MISO Schedules 16 & 17 & 24 1/	\$29,640	(\$16,553)	(\$46,193)	\$29,640	(\$29,925)	(\$58,928)	\$30,585	(\$14,079)	(\$44,664)
	Schedule 16	\$112,864	\$115,753	\$2,889	\$111,471	\$101,981	(\$9,490)	\$113,330	\$111,652	(\$1,678)
	Schedule 17	\$16,775	\$3,329	(\$13,446)	\$17,532	\$3,648	(\$13,884)	\$17,255	\$3,535	(\$13,720)
	Schedule 24	(\$100,000)	(\$135,635)	(\$35,635)	(\$100,000)	(\$135,553)	(\$35,553)	(\$100,000)	(\$129,267)	(\$29,267)
5	Less: Fuel Cost Recovered Through Inter System Sales	\$5,271,080	\$6,826,193	\$1,555,113	\$7,326,657	\$10,368,105	\$3,041,447	\$6,777,251	\$8,359,280	\$1,582,030
	Customer Inter-System Sales	\$1,803,440	\$867,765	(\$935,675)	\$2,073,239	\$911,719	(\$1,161,520)	\$2,035,747	\$1,660,325	(\$375,422)
	Market Sales	\$3,343,042	\$5,265,856	\$1,922,813	\$3,891,873	\$7,279,019	\$3,387,146	\$3,541,872	\$4,872,805	\$1,330,933
	Station Service	\$4,337	\$12,988	\$8,651	\$4,337	\$971	(\$3,366)	\$4,337	\$763	(\$3,574)
	MISO Costs 1/	\$120,260	\$127,790	\$7,530	\$185,072	\$324,491	\$159,418	\$141,230	\$81,640	(\$59,590)
	Sales due to Retail and Resale Loss of Load	\$0	\$551,794	\$551,794	\$0	\$1,158,391	\$1,158,391	\$0	\$816,147	\$816,147
	Asset Based Margins	\$0	\$0	\$0	\$1,192,136	\$693,515	(\$498,621)	\$1,054,065	\$927,600	(\$126,465)
6	Less: Costs Related to Solar	\$0	\$3	\$3	\$0	\$0	\$0	\$0	\$2	\$2
7	Plus: Time of Generation and Solar Energy Adjustment	\$44,194	\$40,580	(\$3,614)	\$65,662	\$60,152	(\$5,510)	\$60,556	\$51,522	(\$9,034)
8	Plus: Over/Under Credit or Charge	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Total Monthly Cost of Fuel	\$19,915,434	\$14,558,865	(\$5,356,570)	\$21,721,444	\$16,255,352	(\$5,466,091)	\$21,977,204	\$17,909,828	(\$4,067,376)
MWh Sales										
10	Total Sales of Electricity	988,070	880,329	(107,741)	1,079,617	1,005,488	(74,129)	1,063,295	1,063,583	288
	Residential	63,527	71,130	7,603	84,555	82,776	(1,779)	81,879	89,631	7,752
	Commercial	101,219	82,239	(18,980)	109,635	97,852	(11,783)	113,618	103,258	(10,360)
	LP Tacomite	373,210	199,594	(173,616)	391,489	222,978	(168,511)	387,087	380,585	(6,502)
	LP Paper and Pulp	72,366	71,220	(1,146)	70,995	52,297	(18,698)	75,077	63,627	(11,450)
	LP Pipeline	24,669	27,453	2,784	25,645	27,761	2,116	24,208	25,286	1,078
	Municipals	100,957	101,211	254	114,577	118,097	3,520	110,982	112,596	1,614
	Other Misc.	31,962	24,288	(7,674)	32,056	25,735	(6,321)	32,776	26,018	(6,758)
	Inter System Sales	220,160	303,194	83,033	250,665	377,992	127,327	237,668	262,582	24,914
11	Less: Inter System Sales	220,160	339,204	119,044	250,665	416,634	165,969	237,668	335,510	97,842
	Customer Inter-System Sales	66,570	36,010	(30,560)	74,894	38,642	(36,252)	74,148	72,928	(1,220)
	Market Sales	153,423	284,820	131,397	175,804	341,498	165,694	163,353	235,672	72,319
	Station Service	167	774	607	167	62	(106)	167	30	(137)
	Sales due to Retail and Resale Loss of Load	0	17,600	17,600	0	36,432	36,432	0	26,880	26,880
12	Less: Solar Generation and Purchased MWh	1,821	1,713	(108)	1,952	1,954	2	1,790	1,810	20
13	Total Monthly MWh Sales	766,089	539,412	(226,676)	827,000	586,900	(240,100)	823,837	726,263	(97,574)
Fuel Adjustment Charge Fuel Clause (¢/kWh)										
14	1-Month Average Cost of Fuel (¢/kWh)	2.600	2.699	0.099	2.627	2.770	0.143	2.668	2.466	(0.202)

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

Billing Month:

	Jun 20			Jul 20			Aug 20			
	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	
15	Generation - Coal	0.915	0.644	(0.271)	1.037	0.978	(0.058)	1.062	0.723	(0.339)
16	Generation - Gas	0.000	0.000	0.000	0.010	0.006	(0.005)	0.000	0.007	0.007
17	Generation - BioFuel	0.000	0.000	0.000	0.018	0.046	0.028	0.015	0.022	0.008
18	Purchased Power - Coal	0.095	0.135	0.040	0.115	0.084	(0.030)	0.116	0.119	0.003
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	1.050	1.488	0.437	1.007	1.371	0.364	0.999	1.197	0.198
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	0.107	0.096	(0.011)	0.091	0.079	(0.011)	0.096	0.077	(0.019)
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	0.432	0.336	(0.096)	0.494	0.205	(0.288)	0.507	0.320	(0.187)
26	Total One-Month Average Cost	2.600	2.699	0.099	2.771	2.770	(0.001)	2.796	2.466	(0.330)

B. Summary Over/Under Recovery

	Jun 20			Jul 20			Aug 20			
	Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)	
1	Revenue Class Over/Under Recovery	\$11,467,246	\$11,903,740	(\$436,494)	\$12,408,824	\$13,084,820	(\$675,996)	\$16,434,819	\$15,190,542	\$1,244,277
	Residential	\$1,875,226	\$1,946,339	(\$71,113)	\$2,204,666	\$2,324,665	(\$119,999)	\$2,424,884	\$2,241,181	\$183,703
	Commercial	\$2,186,341	\$2,269,824	(\$83,483)	\$2,629,050	\$2,771,966	(\$142,916)	\$2,817,551	\$2,604,276	\$213,275
	Industrial	\$7,291,058	\$7,568,583	(\$277,525)	\$7,444,471	\$7,850,454	(\$405,983)	\$11,064,003	\$10,226,425	\$837,578
	Lighting	\$16,880	\$17,525	(\$645)	\$16,963	\$17,886	(\$923)	\$17,454	\$16,131	\$1,323
	Municipal Pumping	\$97,741	\$101,469	(\$3,728)	\$113,674	\$119,849	(\$6,175)	\$110,927	\$102,529	\$8,398

A. Summary Forecast vs. Actual Automatic Adjustment Charges:

Ref. No.	Revenue/Accounting Month Cost of Fuel	Sep-20			Oct-20			Nov-20		
		Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)
1	Company's Generating Stations	\$8,126,459	\$5,454,595	(\$2,671,864)	\$7,229,819	\$6,419,357	(\$810,462)	\$9,157,624	\$6,814,483	(\$2,343,141)
	Thermal	\$8,126,459	\$5,454,594	(\$2,671,866)	\$7,229,819	\$6,419,357	(\$810,462)	\$9,157,624	\$6,814,483	(\$2,343,141)
	Wind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Hydro	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Plus: Purchased Energy	\$15,921,527	\$17,690,063	\$1,768,536	\$18,631,546	\$18,987,501	\$355,956	\$17,566,053	\$18,151,061	\$585,008
	Market	\$12,273,884	\$13,161,596	\$887,712	\$12,382,074	\$14,583,214	\$2,201,140	\$11,395,042	\$13,088,126	\$1,693,085
	Wind	\$964,138	\$1,843,559	\$879,422	\$3,016,628	\$2,251,991	(\$764,638)	\$3,045,432	\$2,734,476	(\$310,955)
	Solar	\$0	\$0	\$0	\$48,838	\$65	(\$48,773)	\$32,025	\$0	(\$32,025)
	Square Butte	\$2,683,505	\$2,684,908	\$1,403	\$3,184,005	\$2,152,231	(\$1,031,774)	\$3,093,555	\$2,328,459	(\$765,096)
3	Plus: MISO Charges 1/	\$978,137	\$3,026,359	\$2,048,222	\$939,552	\$2,305,710	\$1,366,158	\$1,239,695	\$2,126,655	\$886,960
4	Less: MISO Schedules 16 & 17 & 24 1/	\$31,345	(\$8,981)	(\$40,326)	\$23,132	\$15,419	(\$7,713)	\$24,619	\$9,127	(\$15,492)
	Schedule 16	\$113,578	\$105,477	(\$8,101)	\$106,140	\$134,772	\$28,632	\$107,331	\$127,459	\$20,128
	Schedule 17	\$17,768	\$3,675	(\$14,092)	\$16,991	\$2,575	(\$14,416)	\$17,288	\$2,571	(\$14,717)
	Schedule 24	(\$100,000)	(\$18,133)	(\$18,133)	(\$100,000)	(\$121,929)	(\$21,929)	(\$100,000)	(\$120,903)	(\$20,903)
5	Less: Fuel Cost Recovered Through Inter System Sales	\$5,976,450	\$9,449,885	\$3,473,436	\$7,310,177	\$9,491,207	\$2,181,029	\$7,564,746	\$9,790,239	\$2,225,493
	Customer Inter-System Sales	\$1,941,473	\$1,722,810	(\$218,663)	\$1,577,972	\$1,602,304	\$24,332	\$1,967,150	\$1,540,568	(\$426,582)
	Market Sales	\$3,046,110	\$4,087,772	\$1,041,662	\$4,921,239	\$4,429,515	(\$491,724)	\$4,518,029	\$4,825,291	\$307,262
	Station Service	\$4,337	\$196	(\$4,141)	\$14,991	\$11,196	(\$3,795)	\$4,337	\$228	(\$4,109)
	MISO Costs 1/	\$98,602	\$188,788	\$90,186	\$167,139	\$182,176	\$15,037	\$188,131	\$195,386	\$7,255
	Sales due to Retail and Resale Loss of Load	\$0	\$2,880,702	\$2,880,702	\$0	\$2,914,187	\$2,914,187	\$0	\$2,931,775	\$2,931,775
	Asset Based Margins	\$885,928	\$569,616	(\$316,312)	\$628,836	\$351,828	(\$277,008)	\$887,099	\$296,991	(\$590,108)
6	Less: Costs Related to Solar	\$0	(\$0)	(\$0)	\$48,838	\$65	(\$48,773)	\$32,025	\$0	(\$32,025)
7	Plus: Time of Generation and Solar Energy Adjustment	\$43,959	\$34,859	(\$9,100)	\$54,963	\$25,141	(\$29,821)	\$31,645	\$22,091	(\$9,554)
8	Plus: Over/Under Credit or Charge	(\$3,048,328)	\$0	\$3,048,328	(\$3,048,328)	\$0	\$3,048,328	(\$3,048,328)	\$0	\$3,048,328
9	Total Monthly Cost of Fuel	\$16,013,959	\$16,764,972	\$751,012	\$16,425,404	\$18,231,019	\$1,805,615	\$17,325,299	\$17,314,924	(\$10,375)
MWh Sales										
10	Total Sales of Electricity	986,787	1,076,815	90,029	1,058,244	1,152,674	94,430	1,098,294	1,186,850	88,556
	Residential	69,203	79,787	10,584	67,133	68,573	1,440	92,554	83,289	(9,265)
	Commercial	105,592	100,359	(5,233)	97,171	89,130	(8,041)	97,698	90,424	(7,274)
	LP Taconite	367,280	366,399	(881)	369,435	389,265	19,830	382,571	388,010	5,439
	LP Paper and Pulp	72,254	59,323	(12,931)	74,938	45,468	(29,470)	71,745	41,943	(29,802)
	LP Pipeline	24,310	22,831	(1,479)	25,341	27,374	2,033	27,532	27,724	192
	Municipals	106,818	96,907	(9,911)	108,576	110,166	1,590	115,399	112,423	(2,976)
	Other Misc.	31,305	24,878	(6,427)	31,963	26,093	(5,870)	30,553	25,572	(4,981)
	Inter System Sales	210,025	326,332	116,307	283,687	396,604	112,917	280,242	417,465	137,223
11	Less: Inter System Sales	210,025	404,365	194,341	283,687	469,548	185,861	280,242	487,951	207,709
	Customer Inter-System Sales	71,770	78,034	6,264	59,203	72,944	13,741	72,889	70,486	(2,403)
	Market Sales	138,087	208,960	70,873	223,938	277,617	53,679	207,186	292,172	84,987
	Station Service	167	11	(156)	545	691	145	167	12	(155)
	Sales due to Retail and Resale Loss of Load	0	117,360	117,360	0	118,296	118,296	0	125,280	125,280
12	Less: Solar Generation and Purchased MWh	1,415	1,401	(14)	2,318	1,205	(1,114)	1,382	994	(387)
13	Total Monthly MWh Sales	775,347	671,049	(104,298)	772,239	681,921	(90,318)	816,670	697,905	(118,765)
Fuel Adjustment Charge Fuel Clause (¢/kWh)										
14	1-Month Average Cost of Fuel (¢/kWh)	2.065	2.498	0.433	2.127	2.673	0.546	2.121	2.481	0.360

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

Billing Month:	Sep 20			Oct 20			Nov 20		
	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)	Forecast	Actual	Difference Over/(Under)
15 Generation - Coal	0.856	0.525	(0.331)	0.591	0.579	(0.012)	0.826	0.621	(0.205)
16 Generation - Gas	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17 Generation - BioFuel	0.000	0.004	0.004	0.000	0.023	0.023	0.000	0.009	0.009
18 Purchased Power - Coal	0.114	0.087	(0.027)	0.104	0.085	(0.018)	0.092	0.066	(0.026)
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	1.032	1.060	0.028	1.068	1.021	(0.047)	0.974	0.938	(0.035)
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	0.124	0.227	0.102	0.391	0.273	(0.118)	0.373	0.321	(0.051)
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	0.006	0.000	(0.006)	0.004	0.000	(0.004)
25 Purchased Power - Unknown	0.447	0.595	0.149	0.443	0.691	0.248	0.334	0.525	0.191
26 Total One-Month Average Cost 2/	2.573	2.498	(0.074)	2.603	2.673	0.070	2.603	2.481	(0.122)

B. Summary Over/Under Recovery

Ref. No.	Revenue Class	Sep 20			Oct 20			Nov 20		
		Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)	Collected	Actual	Difference Over/(Under)
1	Revenue Class Over/Under Recovery	\$11,894,308	\$14,389,582	(\$2,495,274)	\$12,184,849	\$15,313,785	(\$3,128,936)	\$12,442,830	\$14,555,783	(\$2,112,953)
	Residential	\$1,670,256	\$2,020,420	(\$350,164)	\$1,478,592	\$1,858,351	(\$379,759)	\$1,791,037	\$2,094,957	(\$303,920)
	Commercial	\$2,119,141	\$2,563,719	(\$444,578)	\$1,938,374	\$2,435,671	(\$497,297)	\$1,961,468	\$2,293,806	(\$332,338)
	Industrial	\$8,005,086	\$9,684,662	(\$1,679,576)	\$8,666,083	\$10,891,843	(\$2,225,760)	\$8,587,960	\$10,047,296	(\$1,459,336)
	Lighting	\$16,075	\$19,450	(\$3,375)	\$18,853	\$23,695	(\$4,842)	\$19,130	\$22,385	(\$3,255)
	Municipal Pumping	\$83,750	\$101,331	(\$17,581)	\$82,947	\$104,225	(\$21,278)	\$83,235	\$97,339	(\$14,104)

A. Summary Forecast vs. Actual Automatic Adjustment Charges:

Ref. No.	Revenue/Accounting Month Cost of Fuel	Dec-20		
		Forecast	Actual	Difference Over/(Under)
1	Company's Generating Stations	\$9,817,975	\$7,467,646	(\$2,350,329)
	Thermal	\$9,817,975	\$7,467,645	(\$2,350,330)
	Wind	\$0	\$0	\$0
	Hydro	\$0	\$0	\$0
2	Plus: Purchased Energy	\$18,841,898	\$19,464,789	\$622,892
	Market	\$12,653,129	\$14,396,974	\$1,743,845
	Wind	\$2,984,854	\$2,576,281	(\$408,573)
	Solar	\$20,829	\$0	(\$20,829)
	Square Butte	\$3,183,085	\$2,491,534	(\$691,551)
3	Plus: MISO Charges 1/	\$1,530,794	\$1,987,612	\$456,818
4	Less: MISO Schedules 16 & 17 & 24 1/	\$28,798	\$27,921	(\$877)
	Schedule 16	\$110,617	\$155,481	\$44,864
	Schedule 17	\$18,181	\$2,523	(\$15,658)
	Schedule 24	(\$100,000)	(\$130,083)	(\$30,083)
5	Less: Fuel Cost Recovered Through Inter System Sales	\$7,335,758	\$10,326,244	\$2,990,486
	Customer Inter-System Sales	\$2,054,300	\$2,255,773	\$201,474
	Market Sales	\$4,109,051	\$5,250,914	\$1,141,863
	Station Service	\$4,337	\$558	(\$3,779)
	MISO Costs 1/	\$184,832	\$186,126	\$1,294
	Sales due to Retail and Resale Loss of Load	\$0	\$1,800,687	\$1,800,687
	Asset Based Margins	\$983,238	\$832,185	(\$151,053)
6	Less: Costs Related to Solar	\$20,829	(\$0)	(\$20,829)
7	Plus: Time of Generation and Solar Energy Adjustment	\$26,281	\$15,902	(\$10,379)
8	Plus: Over/Under Credit or Charge	(\$3,048,328)	\$0	\$3,048,328
9	Total Monthly Cost of Fuel	\$19,783,235	\$18,581,784	(\$1,201,451)
MWh Sales				
10	Total Sales of Electricity	1,149,252	1,184,258	35,006
	Residential	121,566	93,282	(28,284)
	Commercial	115,099	93,235	(21,864)
	LP Taconite	387,522	446,289	58,767
	LP Paper and Pulp	72,688	42,064	(30,624)
	LP Pipeline	29,402	31,402	2,000
	Municipals	127,367	124,604	(2,763)
	Other Misc.	31,885	26,849	(5,036)
	Inter System Sales	263,723	326,532	62,809
11	Less: Inter System Sales	263,723	425,903	162,180
	Customer Inter-System Sales	75,096	99,371	24,275
	Market Sales	188,460	250,571	62,112
	Station Service	167	73	(95)
	Sales due to Retail and Resale Loss of Load	0	75,888	75,888
12	Less: Solar Generation and Purchased MWh	1,100	586	(513)
13	Total Monthly MWh Sales	884,429	757,768	(126,661)
Fuel Adjustment Charge Fuel Clause (¢/KWh)				
14	1-Month Average Cost of Fuel (¢/KWh)	2.237	2.452	0.215

1 Month Average Cost of Fuel by Energy Type (¢/KWh)
Billing Month:

	Dec 20		
	Forecast	Actual	Difference Over/(Under)
15 Generation - Coal	0.869	0.680	(0.188)
16 Generation - Gas	0.000	0.000	0.000
17 Generation - BioFuel	0.000	0.017	0.017
18 Purchased Power - Coal	0.110	0.078	(0.032)
19 Purchased Power - Biomass	0.000	0.000	0.000
20 Purchased Power - Hydro	0.936	0.998	0.061
21 Purchased Power - Gas	0.000	0.000	0.000
22 Purchased Power - Wind	0.337	0.306	(0.032)
23 Purchased Power - Diesel	0.000	0.000	0.000
24 Purchased Power - Solar	0.002	0.000	(0.002)
25 Purchased Power - Unknown	0.438	0.373	(0.065)
26 Total One-Month Average Cost 2/	2.693	2.452	(0.241)

B. Summary Over/Under Recovery

	Dec 20		
	Collected	Actual	Difference Over/(Under)
1 Revenue Class Over/Under Recovery	\$14,180,881	\$15,543,843	(\$1,362,962)
Residential	\$2,115,051	\$2,318,350	(\$203,299)
Commercial	\$2,134,054	\$2,338,809	(\$204,755)
Industrial	\$9,822,895	\$10,767,342	(\$944,447)
Lighting	\$21,396	\$23,458	(\$2,062)
Municipal Pumping	\$87,485	\$95,884	(\$8,399)

Thermal Generation													
	YTD 2020			Jan-20			Feb-20			Mar-20			
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	
TRADE SECRET DATA BEGINS													
Boswell 3	MWh												
	Average Cost												
	Total Cost	\$49,469,655	\$31,525,708	(\$17,943,947)	\$4,553,284	\$3,128,391	(\$1,424,893)	\$4,332,460	\$3,031,479	(\$1,300,981)	\$3,878,022	\$2,883,876	(\$994,146)
Boswell 4	MWh												
	Average Cost												
	Total Cost	\$53,153,171	\$43,172,017	(\$9,981,154)	\$5,883,908	\$5,275,321	(\$608,587)	\$5,706,980	\$4,264,204	(\$1,442,776)	\$5,784,444	\$3,773,379	(\$2,011,065)
Total Generation Coal \$		\$102,622,826	\$74,697,725	(\$27,925,101)	\$10,437,192	\$8,403,712	(\$2,033,480)	\$10,039,440	\$7,295,683	(\$2,743,757)	\$9,662,466	\$6,657,255	(\$3,005,211)
Generation - Gas													
TRADE SECRET DATA BEGINS													
Laskin 1	MWh												
	Average Cost												
	Total Cost	\$403,364	\$295,310	(\$108,054)	\$0	\$42,772	\$42,772	\$0	(\$2,914)	(\$2,914)	\$0	\$413	\$413
Laskin 2	MWh												
	Average Cost												
	Total Cost	\$0	\$289,307	\$289,307	\$0	\$40,916	\$40,916	\$0	(\$2,914)	(\$2,914)	\$0	\$413	\$413
Total Generation Gas \$		\$403,364	\$584,617	\$181,253	\$0	\$83,688	\$83,688	\$0	(\$5,827)	(\$5,827)	\$0	\$825	\$825
Generation - Biofuel													
TRADE SECRET DATA BEGINS													
Hibbard	MWh												
	Average Cost												
	Total Cost	\$222,738	\$1,008,837	\$786,098	\$0	(\$281)	(\$281)	\$0	\$0	\$0	\$0	\$0	\$0
Total Generation Biofuel \$		\$222,738	\$1,008,837	\$786,098	\$0	(\$281)	(\$281)	\$0	\$0	\$0	\$0	\$0	\$0
Total Thermal Generation \$		\$103,248,928	\$76,291,179	(\$26,957,749)	\$10,437,192	\$8,487,119	(\$1,950,073)	\$10,039,440	\$7,289,856	(\$2,749,584)	\$9,662,466	\$6,658,080	(\$3,004,386)
Wind Generation													
		YTD 2020			Jan-20			Feb-20			Mar-20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
TRADE SECRET DATA BEGINS													
Bison	MWh												
	Average Cost												
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Tac Ridge	MWh												
	Average Cost												
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Wind Generation \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Hydro Generation													
		YTD 2020			Jan-20			Feb-20			Mar-20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
TRADE SECRET DATA BEGINS													
Hydro	MWh												
	Average Cost												
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Hydro Generation \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		YTD 2020			Jan-20			Feb-20			Mar-20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Total Company Generation		\$103,248,928	\$76,291,179	(\$26,957,749)	\$10,437,192	\$8,487,119	(\$1,950,073)	\$10,039,440	\$7,289,856	(\$2,749,584)	\$9,662,466	\$6,658,080	(\$3,004,386)

Thermal Generation													
		Apr-20			May-20			Jun-20			Jul-20		
		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	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$4,054,860	\$2,574,040	(\$1,480,820)	\$4,337,514	\$511,331	(\$3,826,183)	\$3,831,140	\$2,853,937	(\$977,203)	\$4,487,352	\$3,368,993	(\$1,118,359)
Boswell 4	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$290,196	\$470,114	\$179,918	\$412,955	\$2,878,123	\$2,465,168	\$4,711,339	\$2,590,063	(\$2,121,276)	\$5,752,126	\$4,572,799	(\$1,179,327)
Total Generation Coal \$		\$4,345,056	\$3,044,154	(\$1,300,902)	\$4,750,470	\$3,389,454	(\$1,361,016)	\$8,542,479	\$5,444,000	(\$3,098,479)	\$10,239,477	\$7,941,792	(\$2,297,685)
Generation - Gas													
Laskin 1	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$273	\$273	\$0	\$158	\$158	\$0	\$123	\$123	\$403,364	\$190,928	(\$212,436)
Laskin 2	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$272	\$272	\$0	\$158	\$158	\$0	\$123	\$123	\$0	\$188,404	\$188,404
Total Generation Gas \$		\$0	\$545	\$545	\$0	\$316	\$316	\$0	\$246	\$246	\$403,364	\$379,332	(\$24,032)
Generation - Biofuel													
Hibbard	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$508	\$508	\$122,538	\$319,737	\$197,199
Total Generation Biofuel \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$508	\$508	\$122,538	\$319,737	\$197,199
Total Thermal Generation \$		\$4,345,056	\$3,044,699	(\$1,300,357)	\$4,750,470	\$3,389,770	(\$1,360,700)	\$8,542,479	\$5,444,754	(\$3,097,725)	\$10,765,379	\$8,640,861	(\$2,124,518)
Wind Generation													
		Apr-20			May-20			Jun-20			Jul-20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Bison	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Tac Ridge	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Wind Generation \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Hydro Generation													
		Apr-20			May-20			Jun-20			Jul-20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Hydro	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Hydro Generation \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Company Generation		\$4,345,056	\$3,044,699	(\$1,300,357)	\$4,750,470	\$3,389,770	(\$1,360,700)	\$8,542,479	\$5,444,754	(\$3,097,725)	\$10,765,379	\$8,640,861	(\$2,124,518)

Thermal Generation										
		Aug-20			Sep-20			Oct-20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Generation - Coal										
Boswell 3	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	Total Cost	\$4,455,666	\$2,802,378	(\$1,653,288)	\$3,701,393	\$2,573,957	(\$1,127,436)	\$3,454,040	\$2,363,954	(\$1,090,086)
Boswell 4	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	Total Cost	\$5,818,702	\$4,044,771	(\$1,773,931)	\$4,425,066	\$2,839,980	(\$1,585,086)	\$3,775,778	\$3,850,622	\$74,844
Total Generation Coal \$		\$10,274,368	\$6,847,149	(\$3,427,219)	\$8,126,459	\$5,413,937	(\$2,712,522)	\$7,229,819	\$6,214,576	(\$1,015,243)
Generation - Gas										
Laskin 1	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	Total Cost	\$0	\$61,759	\$61,759	\$0	\$1,378	\$1,378	\$0	\$90	\$90
Laskin 2	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	Total Cost	\$0	\$60,136	\$60,136	\$0	\$1,378	\$1,378	\$0	\$90	\$90
Total Generation Gas \$		\$0	\$121,895	\$121,895	\$0	\$2,755	\$2,755	\$0	\$180	\$180
Generation - Biofuel										
Hibbard	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	Total Cost	\$100,200	\$210,918	\$110,717	\$0	\$37,902	\$37,902	\$0	\$204,601	\$204,601
Total Generation Biofuel \$		\$100,200	\$210,918	\$110,717	\$0	\$37,902	\$37,902	\$0	\$204,601	\$204,601
Total Thermal Generation \$		\$10,374,569	\$7,179,962	(\$3,194,607)	\$8,126,459	\$5,454,594	(\$2,671,866)	\$7,229,819	\$6,419,357	(\$810,462)
Wind Generation										
		Aug-20			Sep-20			Oct-20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Bison	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Tac Ridge	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Wind Generation \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Hydro Generation										
		Aug-20			Sep-20			Oct-20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Hydro	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Hydro Generation \$		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Aug-20			Sep-20			Oct-20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Total Company Generation		\$10,374,569	\$7,179,962	(\$3,194,607)	\$8,126,459	\$5,454,594	(\$2,671,866)	\$7,229,819	\$6,419,357	(\$810,462)

Thermal Generation						
		Nov-20			Dec-20	
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual
						Difference: Over/(Under)
Generation - Coal						
Boswell 3	MWh	[REDACTED]				
	Average Cost	[REDACTED]				
	Total Cost	\$4,054,273	\$2,634,173	(\$1,420,100)	\$4,329,650	\$2,799,199 (\$1,530,451)
TRADE SECRET DATA ENDS]						
Boswell 4	MWh	[REDACTED]				
	Average Cost	[REDACTED]				
	Total Cost	\$5,103,351	\$4,100,523	(\$1,002,828)	\$5,488,325	\$4,512,118 (\$976,207)
Total Generation Coal \$		\$9,157,624	\$6,734,696	(\$2,422,928)	\$9,817,975	\$7,311,317 (\$2,506,658)
Generation - Gas						
Laskin 1	MWh	[REDACTED]				
	Average Cost	[REDACTED]				
	Total Cost	\$0	\$156	\$156	\$0	\$175 \$175
TRADE SECRET DATA ENDS]						
Laskin 2	MWh	[REDACTED]				
	Average Cost	[REDACTED]				
	Total Cost	\$0	\$156	\$156	\$0	\$175 \$175
Total Generation Gas \$		\$0	\$312	\$312	\$0	\$350 \$350
Generation - Biofuel						
Hibbard	MWh	[REDACTED]				
	Average Cost	[REDACTED]				
	Total Cost	\$0	\$79,475	\$79,475	\$0	\$155,976 \$155,976
Total Generation Biofuel \$		\$0	\$79,475	\$79,475	\$0	\$155,976 \$155,976
Total Thermal Generation \$		\$9,157,624	\$6,814,483	(\$2,343,141)	\$9,817,975	\$7,467,643 (\$2,350,332)
Wind Generation						
		Nov-20			Dec-20	
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual
						Difference: Over/(Under)
Bison	MWh	[REDACTED]				
	Average Cost	[REDACTED]				
	Total Cost	\$0	\$0	\$0	\$0	\$0 \$0
TRADE SECRET DATA ENDS]						
Tac Ridge	MWh	[REDACTED]				
	Average Cost	[REDACTED]				
	Total Cost	\$0	\$0	\$0	\$0	\$0 \$0
Total Wind Generation \$		\$0	\$0	\$0	\$0	\$0 \$0
Hydro Generation						
		Nov-20			Dec-20	
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual
						Difference: Over/(Under)
Hydro	MWh	[REDACTED]				
	Average Cost	[REDACTED]				
	Total Cost	\$0	\$0	\$0	\$0	\$0 \$0
Total Hydro Generation \$		\$0	\$0	\$0	\$0	\$0 \$0
		Nov-20			Dec-20	
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual
						Difference: Over/(Under)
Total Company Generation		\$9,157,624	\$6,814,483	(\$2,343,141)	\$9,817,975	\$7,467,643 (\$2,350,332)

Purchase Power Market																
		Y D 2020			Jan 20			Feb 20			Mar 20			Apr 20		
		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)
Manitoba Hydro	MWh															
	Average Cost															
	total Cost	\$63 347 932	\$81 808 261	\$18 460 330	\$1 271 992	\$1 728 749	\$456 757	\$1 189 928	\$1 612 794	\$422 866	\$1 271 992	\$2 059 646	\$787 654	\$1 230 960	\$2 075 133	\$844 173
Great River Energy	MWh															
	Average Cost															
	total Cost	\$453 863	\$12 458	(\$441 405)	\$129 361	\$12 458	(\$116 903)	\$42 905	\$0	(\$42 905)	\$128 139	\$0	(\$128 139)	\$113 132	\$0	(\$113 132)
Market Purchase	MWh															
	Average Cost															
	total Cost	\$53 988 960	\$48 717 311	(\$5 271 648)	\$6 858 866	\$6 301 269	(\$557 597)	\$5 920 293	\$6 083 287	\$162 995	\$6 210 685	\$5 845 482	(\$365 204)	\$9 064 125	\$6 053 719	(\$3 010 406)
Minnkota Power	MWh															
	Average Cost															
	total Cost	\$7 752 000	\$7 752 000	\$0	\$1 581 000	\$1 581 000	\$0	\$1 479 000	\$1 479 000	\$0	\$1 581 000	\$1 581 000	\$0	\$1 530 000	\$1 530 000	\$0
Minnkota Power Station Service	MWh															
	Average Cost															
	total Cost	\$420 000	\$257 212	(\$162 788)	\$35 000	\$28 683	(\$6 317)	\$35 000	\$32 325	(\$2 675)	\$35 000	\$23 688	(\$11 312)	\$35 000	\$23 818	(\$11 182)
Purchase to Serve Non Firm Retail Customer	MWh															
	Average Cost															
	total Cost	\$18 512 648	\$0	(\$18 512 648)	\$1 580 348	\$0	(\$1 580 348)	\$1 561 504	\$0	(\$1 561 504)	\$1 452 276	\$0	(\$1 452 276)	\$1 460 312	\$0	(\$1 460 312)
IMO (Ontario Market Operator)	MWh															
	Average Cost															
	total Cost	\$0	\$8 209	\$8 209	\$0	\$3 241	\$3 241	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AEP Energy Partners	MWh															
	Average Cost															
	total Cost	\$0	\$3 627 000	\$3 627 000	\$0	\$1 112 280	\$1 112 280	\$0	\$1 402 440	\$1 402 440	\$0	\$1 112 280	\$1 112 280	\$0	\$0	\$0
Shell Energy North America	MWh															
	Average Cost															
	total Cost	\$0	\$460 350	\$460 350	\$0	\$460 350	\$460 350	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NextEra Energy	MWh															
	Average Cost															
	total Cost	\$0	\$3 082 620	\$3 082 620	\$0	\$709 340	\$709 340	\$0	\$663 740	\$663 740	\$0	\$709 340	\$709 340	\$0	\$324 740	\$324 740
Other Purchases	MWh															
	Average Cost															
	total Cost	\$0	\$1 793 559	\$1 793 559	\$0	\$110 307	\$110 307	\$0	\$104 821	\$104 821	\$0	\$110 829	\$110 829	\$0	\$212 979	\$212 979
total Purchase Power Market \$		\$144 475 402	\$147 518 961	\$3 043 559	\$11 456 567	\$12 047 677	\$591 109	\$10 228 630	\$11 378 407	\$1 149 778	\$10 679 092	\$11 442 264	\$763 172	\$13 433 528	\$10 220 389	(\$3 213 139)

Purchase Power Market		May 20			Jun 20			Jul 20			Aug 20			Sep 20		
		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)
Manitoba Hydro	MWh															
	Average Cost															
	total Cost	\$1 271 992	\$2 631 955	\$1 359 963	\$8 046 266	\$9 938 271	\$1 892 006	\$8 327 314	\$10 823 751	\$2 496 437	\$8 231 037	\$11 094 999	\$2 863 962	\$7 998 132	\$10 333 826	\$2 335 695
Great River Energy	MWh															
	Average Cost															
	total Cost	\$40 326	\$0	(\$40 326)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Purchase	MWh															
	Average Cost															
	total Cost	\$7 408 830	\$2 348 849	(\$5 059 981)	\$2 497 095	\$1 431 416	(\$1 065 678)	\$2 944 092	\$2 045 459	(\$898 633)	\$3 066 335	\$3 666 414	\$600 079	\$2 671 100	\$2 760 775	\$89 675
Minnkota Power	MWh															
	Average Cost															
	total Cost	\$1 581 000	\$1 581 000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Minnkota Power Station Service	MWh															
	Average Cost															
	total Cost	\$35 000	\$17 203	(\$17 797)	\$35 000	\$19 088	(\$15 912)	\$35 000	\$16 864	(\$18 136)	\$35 000	\$17 492	(\$17 508)	\$35 000	\$23 406	(\$11 594)
Purchase to Serve Non Firm Retail Customer	MWh															
	Average Cost															
	total Cost	\$1 635 984	\$0	(\$1 635 984)	\$1 501 892	\$0	(\$1 501 892)	\$1 605 128	\$0	(\$1 605 128)	\$1 676 164	\$0	(\$1 676 164)	\$1 569 652	\$0	(\$1 569 652)
IMO (Ontario Market Operator)	MWh															
	Average Cost															
	total Cost	\$0	\$1 169	\$1 169	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2 827	\$2 827	\$0	\$0	\$0
AEP Energy Partners	MWh															
	Average Cost															
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Shell Energy North America	MWh															
	Average Cost															
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NextEra Energy	MWh															
	Average Cost															
	total Cost	\$0	\$335 480	\$335 480	\$0	\$324 740	\$324 740	\$0	\$2 540	\$2 540	\$0	\$2 540	\$2 540	\$0	\$2 540	\$2 540
Other Purchases	MWh															
	Average Cost															
	total Cost	\$0	\$282 420	\$282 420	\$0	\$311 825	\$311 825	\$0	\$168 063	\$168 063	\$0	\$135 966	\$135 966	\$0	\$41 049	\$41 049
total Purchase Power Market \$		\$11 973 132	\$7 198 076	(\$4 775 056)	\$12 080 252	\$12 025 341	(\$54 911)	\$12 911 534	\$13 056 677	\$145 143	\$13 008 536	\$14 920 238	\$1 911 702	\$12 273 884	\$13 161 596	\$887 712

Purchase Power Market		Oct 20			Nov 20			Dec 20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Manitoba Hydro	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	total Cost	\$8 279 168	\$10 167 923	\$1 888 755	\$7 949 984	\$9 373 170	\$1 423 186	\$8 279 168	\$9 968 044	\$1 688 876
Great River Energy	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Market Purchase	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	total Cost	\$2 844 251	\$4 335 154	\$1 490 904	\$1 826 630	\$3 578 798	\$1 752 168	\$2 676 658	\$4 266 689	\$1 590 032
Minnkota Power	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Minnkota Power Station Service	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	total Cost	\$35 000	\$15 906	(\$19 094)	\$35 000	\$20 405	(\$14 595)	\$35 000	\$18 334	(\$16 666)
Purchase to Serve Non Firm Retail Customer	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	total Cost	\$1 223 656	\$0	(\$1 223 656)	\$1 583 428	\$0	(\$1 583 428)	\$1 662 304	\$0	(\$1 662 304)
IMO (Ontario Market Operator)	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$972	\$972
AEP Energy Partners	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Shell Energy North America	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NextEra Energy	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	total Cost	\$0	\$2 540	\$2 540	\$0	\$2 540	\$2 540	\$0	\$2 540	\$2 540
Other Purchases	MWh	[REDACTED]								
	Average Cost	[REDACTED]								
	total Cost	\$0	\$61 691	\$61 691	\$0	\$113 214	\$113 214	\$0	\$140 394	\$140 394
total Purchase Power Market \$		\$12 382 074	\$14 563 214	\$2 201 140	\$11 395 042	\$13 088 126	\$1 693 085	\$12 653 129	\$14 396 974	\$1 743 845

Purchase Power Wind																
		Y D 2020			an 20			Feb 20			Mar 20			Apr 20		
		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)
Oliver 1	MWh Average Cost															
	total Cost	\$5 009 500	\$3 305 579	(\$1 703 921)	\$524 400	\$363 346	(\$161 054)	\$382 927	\$335 557	(\$47 369)	\$446 577	\$402 953	(\$43 624)	\$429 978	\$361 468	(\$68 510)
Oliver 2	MWh Average Cost															
	total Cost	\$6 960 827	\$6 267 453	(\$693 373)	\$741 039	\$587 606	(\$153 433)	\$542 499	\$494 815	(\$47 684)	\$628 022	\$525 577	(\$102 445)	\$605 385	\$477 958	(\$127 428)
Wing River	MW Average Cos															
	total Cost	\$243 923	\$142 654	(\$101 269)	\$22 455	\$13 273	(\$9 182)	\$19 560	\$13 116	(\$6 444)	\$22 067	\$7 660	(\$14 407)	\$23 493	\$0	(\$23 493)
Nobles	MWh Average Cost															
	total Cost	\$5 643 930	\$5 551 905	(\$92 125)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
total Purchase Power Wind \$		\$17 858 180	\$15 267 492	(\$2 590 687)	\$1 287 894	\$964 225	(\$323 669)	\$944 985	\$843 488	(\$101 497)	\$1 096 665	\$936 190	(\$160 475)	\$1 058 856	\$839 426	(\$219 430)
Purchase Power Solar																
		Y D 2020			an 20			Feb 20			Mar 20			Apr 20		
		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)
Blanchard	MWh Average Cost															
	total Cost	\$101 692	\$0	(\$101 692)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Solar Subscription Cancellations	MWh Average Cost															
	total Cost	\$0	\$70	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
total Purchase Power Solar \$		\$101 692	\$70	(\$101 623)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Purchase Power Square Butte																
		Y D 2020			an 20			Feb 20			Mar 20			Apr 20		
		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	\$36 422 520	\$30 559 753	(\$5 862 767)	\$3 184 005	\$2 789 558	(\$394 447)	\$2 589 455	\$2 907 198	\$317 743	\$3 179 905	\$2 708 981	(\$470 924)	\$3 089 455	\$2 909 915	(\$179 540)
total Purchase Power Coal \$		\$36 422 520	\$30 559 753	(\$5 862 767)	\$3 184 005	\$2 789 558	(\$394 447)	\$2 589 455	\$2 907 198	\$317 743	\$3 179 905	\$2 708 981	(\$470 924)	\$3 089 455	\$2 909 915	(\$179 540)
		Y D 2020			an 20			Feb 20			Mar 20			Apr 20		
		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 Purchase Power		\$198 857 794	\$193 346 296	(\$5 511 499)	\$15 928 466	\$15 801 460	(\$127 007)	\$13 763 069	\$15 129 093	\$1 366 024	\$14 955 663	\$15 087 435	\$131 772	\$17 581 839	\$13 969 730	(\$3 612 109)

Purchase Power Wind																
		May 20			Jun 20			Jul 20			Aug 20			Sep 20		
		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)
Oliver 1	MWh															
	Average Cost															
	total Cost	\$446 160	\$170 574	(\$275 587)	\$342 108	\$93 772	(\$248 336)	\$317 266	\$160 642	(\$156 624)	\$333 258	\$138 104	(\$195 154)	\$406 727	\$216 736	(\$189 992)
Oliver 2	MWh															
	Average Cost															
	total Cost	\$622 239	\$484 966	(\$137 273)	\$463 167	\$428 188	(\$34 979)	\$420 564	\$326 486	(\$94 078)	\$446 249	\$430 651	(\$15 598)	\$536 690	\$605 396	\$68 706
Wing River	MWh															
	Average Cost															
	total Cost	\$22 892	\$9 574	(\$13 318)	\$17 191	\$14 706	(\$2 485)	\$14 330	\$10 047	(\$4 283)	\$13 304	\$10 146	(\$3 158)	\$20 720	\$9 053	(\$11 667)
Nobles	MWh															
	Average Cost															
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1 012 374	\$1 012 374	
total Purchase Power Wind \$		\$1 091 291	\$665 114	(\$426 178)	\$822 466	\$536 666	(\$285 800)	\$752 160	\$497 176	(\$254 985)	\$792 811	\$578 901	(\$213 910)	\$964 138	\$1 843 559	\$879 422
Purchase Power Solar																
		May 20			Jun 20			Jul 20			Aug 20			Sep 20		
		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)
Blanchard	MWh															
	Average Cos															
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Solar Subscription Cancellations	MWh															
	Average Cost															
	total Cost	\$0	\$0	\$0	\$0	\$3	\$3	\$0	\$0	\$0	\$0	\$2	\$2	\$0	\$0	\$0
total Purchase Power Solar \$		\$0	\$0	\$0	\$0	\$3	\$3	\$0	\$0	\$0	\$0	\$2	\$2	\$0	\$0	\$0
Purchase Power Square Butte																
		May 20			Jun 20			Jul 20			Aug 20			Sep 20		
		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	\$3 184 005	\$2 364 875	(\$819 130)	\$2 683 535	\$2 626 374	(\$57 161)	\$3 184 005	\$2 116 769	(\$1 067 236)	\$3 184 005	\$2 478 950	(\$705 055)	\$2 683 505	\$2 684 908	\$1 403
total Purchase Power Coal \$		\$3 184 005	\$2 364 875	(\$819 130)	\$2 683 535	\$2 626 374	(\$57 161)	\$3 184 005	\$2 116 769	(\$1 067 236)	\$3 184 005	\$2 478 950	(\$705 055)	\$2 683 505	\$2 684 908	\$1 403
		May 20			Jun 20			Jul 20			Aug 20			Sep 20		
		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 Purchase Power		\$16 248 429	\$10 228 065	(\$6 020 364)	\$15 586 253	\$15 188 384	(\$397 869)	\$16 847 699	\$15 670 622	(\$1 177 078)	\$16 985 352	\$17 978 091	\$992 739	\$15 921 527	\$17 690 063	\$1 768 537

		Oct 20			Nov 20			Dec 20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over (Under)	Forecast	Actual	Difference: Over/(Under)
Purchase Power Wind										
Oliver 1	MWh									
	Average Cost									
	total Cost	\$461 135	\$280 655	(\$180 480)	\$478 641	\$411 026	(\$67 615)	\$440 324	\$370 746	(\$69 578)
Oliver 2	MWh									
	Average Cost									
	total Cost	\$649 228	\$576 339	(\$72 889)	\$660 123	\$691 576	\$31 452	\$645 621	\$637 895	(\$7 726)
Wing River	MWh									
	Average Cost									
	total Cost	\$22 681	\$18 483	(\$4 198)	\$23 057	\$22 874	(\$184)	\$22 172	\$13 723	(\$8 450)
Nobles	MWh									
	Average Cost									
	total Cost	\$1 883 584	\$1 376 514	(\$507 070)	\$1 883 610	\$1 609 001	(\$274 609)	\$1 876 736	\$1 553 916	(\$322 819)
total Purchase Power Wind \$		\$3 016 628	\$2 251 991	(\$764 638)	\$3 045 432	\$2 734 476	(\$310 955)	\$2 984 854	\$2 576 281	(\$408 573)
Purchase Power Solar										
Blanchard	MWh									
	Average Cost									
	total Cost	\$48 838	\$0	(\$48 838)	\$32 025	\$0	(\$32 025)	\$20 829	\$0	(\$20 829)
Solar Subscription Cancellations	MWh									
	Average Cost									
	total Cost	\$0	\$65	\$65	\$0	\$0	\$0	\$0	\$0	\$0
total Purchase Power Solar \$		\$48 838	\$65	(\$48 773)	\$32 025	\$0	(\$32 025)	\$20 829	\$0	(\$20 829)
Purchase Power Square Butte										
Square Butte	MWh									
	Average Cost									
	total Cost	\$3 184 005	\$2 152 231	(\$1 031 774)	\$3 093 555	\$2 328 459	(\$765 096)	\$3 183 085	\$2 491 534	(\$691 551)
total Purchase Power Coal \$		\$3 184 005	\$2 152 231	(\$1 031 774)	\$3 093 555	\$2 328 459	(\$765 096)	\$3 183 085	\$2 491 534	(\$691 551)
total Company Purchase Power		\$18 631 546	\$18 987 501	\$355 956	\$17 566 053	\$18 151 062	\$585 009	\$18 841 898	\$19 464 789	\$622 892

Purchase Power Solar		YTD 2020			Jan 20			Feb 20			Mar 20			Apr 20		
		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)
Blanchard	MWh	[REDACTED]														
	Average Cost	[REDACTED]														
	Total Cost	\$101,692	\$0	(\$101,692)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		TRADE SECRET DATA BEGINS														
Solar Subscription Cancellations	MWh	[REDACTED]														
	Average Cost	[REDACTED]														
	Total Cost	\$0	\$70	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Purchase Power Solar \$		\$101,692	\$70	(\$101,623)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Purchase Power Unknown		YTD 2020			Jan 20			Feb 20			Mar 20			Apr 20		
		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)
Market Purchase	MWh	[REDACTED]														
	Average Cost	[REDACTED]														
	Total Cost	\$53,988,960	\$48,717,311	(\$5,271,648)	\$6,858,866	\$6,301,269	(\$557,597)	\$5,920,293	\$6,083,287	\$162,995	\$6,210,685	\$5,845,482	(\$365,204)	\$9,064,125	\$6,053,719	(\$3,010,406)
MPC	MWh	[REDACTED]														
	Average Cost	[REDACTED]														
	Total Cost	\$7,752,000	\$7,752,000	\$0	\$1,581,000	\$1,581,000	\$0	\$1,479,000	\$1,479,000	\$0	\$1,581,000	\$1,581,000	\$0	\$1,530,000	\$1,530,000	\$0
		TRADE SECRET DATA BEGINS														
MPC Station Service	MWh	[REDACTED]														
	Average Cost	[REDACTED]														
	Total Cost	\$420,000	\$257,212	(\$162,788)	\$35,000	\$28,683	(\$6,317)	\$35,000	\$32,325	(\$2,675)	\$35,000	\$23,688	(\$11,312)	\$35,000	\$23,818	(\$11,182)
		TRADE SECRET DATA BEGINS														
Purchase to Serve Non Firm Retail Customer	MWh	[REDACTED]														
	Average Cost	[REDACTED]														
	Total Cost	\$18,512,648	\$0	(\$18,512,648)	\$1,580,348	\$0	(\$1,580,348)	\$1,561,504	\$0	(\$1,561,504)	\$1,452,276	\$0	(\$1,452,276)	\$1,460,312	\$0	(\$1,460,312)
		TRADE SECRET DATA BEGINS														
IMO (Ontario Market Operator)	MWh	[REDACTED]														
	Average Cost	[REDACTED]														
	Total Cost	\$0	\$8,209	\$8,209	\$0	\$3,241	\$3,241	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		TRADE SECRET DATA BEGINS														
AEP Energy Partners	MWh	[REDACTED]														
	Average Cost	[REDACTED]														
	Total Cost	\$0	\$3,627,000	\$3,627,000	\$0	\$1,112,280	\$1,112,280	\$0	\$1,402,440	\$1,402,440	\$0	\$1,112,280	\$1,112,280	\$0	\$0	\$0
Shell Energy North America	MWh	[REDACTED]														
	Average Cost	[REDACTED]														
	Total Cost	\$0	\$460,350	\$460,350	\$0	\$460,350	\$460,350	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		TRADE SECRET DATA BEGINS														
NextEra Energy	MWh	[REDACTED]														
	Average Cost	[REDACTED]														
	Total Cost	\$0	\$3,082,620	\$3,082,620	\$0	\$709,340	\$709,340	\$0	\$663,740	\$663,740	\$0	\$709,340	\$709,340	\$0	\$324,740	\$324,740
Other Purchases	MWh	[REDACTED]														
	Average Cost	[REDACTED]														
	Total Cost	\$0	\$1,793,559	\$1,793,559	\$0	\$110,307	\$110,307	\$0	\$104,821	\$104,821	\$0	\$110,829	\$110,829	\$0	\$212,979	\$212,979
Total Purchase Power Unknown \$		\$80,673,608	\$65,698,262	(\$14,975,346)	\$10,055,214	\$10,306,470	\$251,255	\$8,995,797	\$9,765,613	\$769,817	\$9,278,961	\$9,382,618	\$103,657	\$12,089,437	\$8,145,256	(\$3,944,181)
		TRADE SECRET DATA BEGINS														
		YTD 2020			Jan 20			Feb 20			Mar 20			Apr 20		
		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 Purchase Power		\$198,857,794	\$193,346,296	(\$5,511,498)	\$15,928,466	\$15,801,460	(\$127,007)	\$13,763,069	\$15,129,093	\$1,366,024	\$14,955,863	\$15,087,435	\$131,772	\$17,581,839	\$13,969,730	(\$3,612,109)

Purchase Power Solar												
	May 20			Jun 20			Jul 20			Aug 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Blanchard	MWh											
	Average Cost											
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Solar Subscription Cancellations	MWh											
	Average Cost											
	Total Cost	\$0	\$0	\$0	\$0	\$3	\$3	\$0	\$0	\$0	\$0	\$2
Total Purchase Power Solar \$		\$0	\$0	\$0	\$0	\$3	\$3	\$0	\$0	\$0	\$0	\$2

Purchase Power Unknown													
	May 20			Jun 20			Jul 20			Aug 20			
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	
Market Purchase	MWh												
	Average Cost												
	Total Cost	\$7,408,830	\$2,348,849	(\$5,059,981)	\$2,497,095	\$1,431,416	(\$1,065,678)	\$2,944,092	\$2,045,459	(\$898,633)	\$3,066,335	\$3,666,414	\$600,079
MPC	MWh												
	Average Cost												
	Total Cost	\$1,581,000	\$1,581,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
MPC Station Service	MWh												
	Average Cost												
	Total Cost	\$35,000	\$17,203	(\$17,797)	\$35,000	\$19,088	(\$15,912)	\$35,000	\$16,864	(\$18,136)	\$35,000	\$17,492	(\$17,508)
Purchase to Serve Non Firm Retail Customer	MWh												
	Average Cost												
	Total Cost	\$1,635,984	\$0	(\$1,635,984)	\$1,501,892	\$0	(\$1,501,892)	\$1,605,128	\$0	(\$1,605,128)	\$1,676,164	\$0	(\$1,676,164)
IMO (Ontario Market Operator)	MWh												
	Average Cost												
	Total Cost	\$0	\$1,169	\$1,169	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,827	\$2,827
AEP Energy Partners	MWh												
	Average Cost												
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Shell Energy North America	MWh												
	Average Cost												
	Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
NextEra Energy	MWh												
	Average Cost												
	Total Cost	\$0	\$335,480	\$335,480	\$0	\$324,740	\$324,740	\$0	\$2,540	\$2,540	\$0	\$2,540	\$2,540
Other Purchases	MWh												
	Average Cost												
	Total Cost	\$0	\$282,420	\$282,420	\$0	\$311,825	\$311,825	\$0	\$168,063	\$168,063	\$0	\$135,966	\$135,966
Total Purchase Power Unknown \$		\$10,860,814	\$4,566,122	(\$6,094,693)	\$4,033,987	\$2,087,070	(\$1,946,917)	\$4,584,220	\$2,232,926	(\$2,351,294)	\$4,777,499	\$3,825,240	(\$952,260)
Total Company Purchase Power													
	May 20			Jun 20			Jul 20			Aug 20			
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	
	\$16,248,429	\$10,228,065	(\$6,020,364)	\$15,586,253	\$15,188,384	(\$397,869)	\$16,847,699	\$15,670,622	(\$1,177,076)	\$16,985,352	\$17,978,091	\$992,739	

Purchase Power Solar												
	Sep 20			Oct 20			Nov 20			Dec 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Blanchard	MWh											
Average Cost	Average Cost											
Total Cost	\$0	\$0	\$0	\$48,838	\$0	(\$48,838)	\$32,025	\$0	(\$32,025)	\$20,829	\$0	(\$20,829)
Solar Subscription Cancellations	MWh											
Average Cost	Average Cost											
Total Cost	\$0	\$0	\$0	\$0	\$65	\$65	\$0	\$0	\$0	\$0	\$0	\$0
Total Purchase Power Solar \$	\$0	\$0	\$0	\$48,838	\$65	(\$48,773)	\$32,025	\$0	(\$32,025)	\$20,829	\$0	(\$20,829)
Purchase Power Unknown												
	Sep 20			Oct 20			Nov 20			Dec 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Market Purchase	MWh											
Average Cost	Average Cost											
Total Cost	\$2,671,100	\$2,760,775	\$89,675	\$2,844,251	\$4,335,154	\$1,490,904	\$1,826,630	\$3,578,798	\$1,752,168	\$2,676,658	\$4,266,689	\$1,590,032
MPC	MWh											
Average Cost	Average Cost											
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MPC Station Service	MWh											
Average Cost	Average Cost											
Total Cost	\$35,000	\$23,406	(\$11,594)	\$35,000	\$15,906	(\$19,094)	\$35,000	\$20,405	(\$14,595)	\$35,000	\$18,334	(\$16,666)
Purchase to Serve Non Firm Retail Customer	MWh											
Average Cost	Average Cost											
Total Cost	\$1,569,652	\$0	(\$1,569,652)	\$1,223,656	\$0	(\$1,223,656)	\$1,583,428	\$0	(\$1,583,428)	\$1,662,304	\$0	(\$1,662,304)
IMO (Ontario Market Operator)	MWh											
Average Cost	Average Cost											
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$972	\$972
AEP Energy Partners	MWh											
Average Cost	Average Cost											
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Shell Energy North America	MWh											
Average Cost	Average Cost											
Total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NextEra Energy	MWh											
Average Cost	Average Cost											
Total Cost	\$0	\$2,540	\$2,540	\$0	\$2,540	\$2,540	\$0	\$2,540	\$2,540	\$0	\$2,540	\$2,540
Other Purchases	MWh											
Average Cost	Average Cost											
Total Cost	\$0	\$41,049	\$41,049	\$0	\$61,691	\$61,691	\$0	\$113,214	\$113,214	\$0	\$140,394	\$140,394
Total Purchase Power Unknown \$	\$4,275,752	\$2,827,770	(\$1,447,983)	\$4,102,907	\$4,415,291	\$312,385	\$3,445,058	\$3,714,957	\$269,899	\$4,373,962	\$4,428,930	\$54,969
Total Company Purchase Power												
	Sep 20			Oct 20			Nov 20			Dec 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Total Company Purchase Power	\$15,921,527	\$17,690,063	\$1,768,537	\$18,631,546	\$18,987,501	\$355,956	\$17,566,053	\$18,151,062	\$585,009	\$18,041,898	\$19,464,769	\$622,892

Inter System Sales Customer Sales													
		Y D 2020			an 20			Feb 20			Mar 20		
		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	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$2 095 945	\$1 602 273	(\$493 671)	\$286 788	\$151 055	(\$135 732)	\$259 235	\$145 580	(\$113 655)	\$172 093	\$228 809	\$56 716
Economy and Non Firm Energy	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$21 252 875	\$15 463 755	(\$5 789 120)	\$1 846 617	\$1 579 806	(\$266 811)	\$1 767 794	\$1 551 784	(\$216 010)	\$1 721 299	\$1 612 659	(\$108 640)
Excessive Energy	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$0	\$710 833	\$710 833	\$0	\$177	\$177	\$0	\$6 653	\$6 653	\$0	\$0	\$0
Incremental and Price Recall	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
total Inter System Sales Customer (MWh's)		847 016	780 399	(66 617)	74 382	70 691	(3 691)	71 957	73 793	1 836	67 456	80 951	13 495
total Inter System Sales Customer (Dollars)		\$23 348 819	\$17 776 862	(\$5 571 958)	\$2 133 405	\$1 731 038	(\$402 366)	\$2 027 029	\$1 704 017	(\$323 012)	\$1 893 392	\$1 841 468	(\$51 924)
		1/	1/	1/									
Inter System Sales Market Sales													
		Y D 2020			an 20			Feb 20			Mar 20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over (Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Basin Energy	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$6 013 434	\$5 533 554	(\$479 880)	\$1 486 304	\$1 357 203	(\$129 101)	\$1 434 233	\$1 328 390	(\$105 843)	\$1 558 397	\$1 461 837	(\$96 560)
Oconto	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$2 608 485	\$2 341 131	(\$267 354)	\$206 995	\$205 574	(\$1 421)	\$199 744	\$200 530	\$786	\$217 036	\$196 784	(\$20 252)
AEP Energy	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$4 383 403	\$3 964 755	(\$418 647)	\$351 599	\$317 751	(\$33 848)	\$329 709	\$300 585	(\$29 124)	\$368 653	\$342 243	(\$26 410)
NextEra Energy	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$4 383 403	\$5 183 179	\$799 776	\$351 599	\$931 197	\$579 598	\$329 709	\$918 668	\$588 959	\$368 653	\$342 110	(\$26 543)
Asset Backed Sales (Non MISO)	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$9 158 335	\$1 380 221	(\$7 778 114)	\$188 393	\$0	(\$188 393)	\$130 516	\$0	(\$130 516)	\$115 531	\$0	(\$115 531)
Minnkota Power Liquidation	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$20 836 353	\$17 126 908	(\$3 709 445)	\$1 807 661	\$1 553 441	(\$254 221)	\$1 481 944	\$1 644 416	\$162 472	\$1 810 946	\$1 513 054	(\$297 892)
Shell Energy	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$0	\$217 332	\$217 332	\$0	\$108 255	\$108 255	\$0	\$109 077	\$109 077	\$0	\$0	\$0
Liquidated Sales	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$0	\$10 890 148	\$10 890 148	\$0	\$1 157 158	\$1 157 158	\$0	\$1 031 047	\$1 031 047	\$0	\$1 085 057	\$1 085 057
MISO Market Sales	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$0	\$14 792 599	\$14 792 599	\$0	\$345 358	\$345 358	\$0	\$292 153	\$292 153	\$0	\$362 713	\$362 713
Green Pricing Program	MWh	[REDACTED]											
	Average Cost	[REDACTED]											
	total Cost	\$0	\$30 480	\$30 480	\$0	\$2 540	\$2 540	\$0	\$2 540	\$2 540	\$0	\$2 540	\$2 540
total Inter System Sales Market (MWh's)		2 194 233	3 112 893	918 659	213 594	289 595	76 001	185 236	281 987	96 751	208 740	249 950	41 210
total Inter System Sales Market (Dollars)		\$47 383 413	\$61 460 307	\$14 076 894	\$4 392 551	\$5 978 476	\$1 585 926	\$3 905 855	\$5 827 405	\$1 921 551	\$4 439 216	\$5 396 337	\$867 123

Inter System Sales Customer Sales													
		Apr 20			May 20			Jun 20			Jul 20		
		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	\$140,793	\$85,825	(\$54,968)	\$139,213	\$112,405	(\$26,808)	\$114,159	\$81,571	(\$32,588)	\$139,034	\$104,353	(\$34,681)
Economy and Non Firm Energy	MWh Average Cost												
	total Cost	\$1,699,075	\$1,041,553	(\$657,522)	\$1,862,591	\$679,565	(\$1,183,026)	\$1,689,281	\$771,698	(\$917,583)	\$1,934,204	\$807,366	(\$1,126,838)
Excessive Energy	MWh Average Cost												
	total Cost	\$0	\$0	\$0	\$0	\$19,725	\$19,725	\$0	\$14,495	\$14,495	\$0	\$0	\$0
Incremental and Price Recall	MWh Average Cost												
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
total Inter System Sales Customer (MWh's)		66,172	52,124	(14,048)	72,479	34,426	(38,053)	66,570	36,010	(30,560)	74,894	38,642	(36,252)
total Inter System Sales Customer (Dollars)		\$1,839,868	\$1,127,378	(\$712,490)	\$2,001,805	\$811,695	(\$1,190,109)	\$1,803,440	\$867,765	(\$935,675)	\$2,073,239	\$911,719	(\$1,161,520)
Inter System Sales Market Sales													
		Apr 20			May 20			Jun 20			Jul 20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Basin Energy	MWh Average Cost												
	total Cost	\$1,534,500	\$1,386,124	(\$148,376)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Oconto	MWh Average Cost												
	total Cost	\$213,708	\$169,853	(\$43,854)	\$222,873	\$180,391	(\$42,483)	\$214,371	\$189,630	(\$24,741)	\$222,961	\$241,450	\$18,489
AEP Energy	MWh Average Cost												
	total Cost	\$375,100	\$340,077	(\$35,023)	\$344,154	\$333,348	(\$10,806)	\$376,265	\$346,080	(\$30,185)	\$395,933	\$359,754	(\$36,179)
NextEra Energy	MWh Average Cost												
	total Cost	\$375,100	\$327,101	(\$47,999)	\$344,154	\$333,348	(\$10,806)	\$376,265	\$346,080	(\$30,185)	\$395,933	\$359,754	(\$36,179)
Asset Backed Sales (Non MISO)	MWh Average Cost												
	total Cost	\$66,985	\$0	(\$66,985)	\$213,382	\$41,477	(\$171,905)	\$833,454	\$199,754	(\$633,700)	\$1,059,754	\$635,328	(\$424,426)
Minnkota Power Liquidation	MWh Average Cost												
	total Cost	\$1,764,279	\$1,630,833	(\$133,446)	\$1,820,341	\$1,325,371	(\$494,970)	\$1,542,687	\$1,471,925	(\$70,762)	\$1,817,291	\$1,186,322	(\$630,969)
Shell Energy	MWh Average Cost												
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Liquidated Sales	MWh Average Cost												
	total Cost	\$0	\$437,047	\$437,047	\$0	\$220,881	\$220,881	\$0	\$526,484	\$526,484	\$0	\$2,918,748	\$2,918,748
MISO Market Sales	MWh Average Cost												
	total Cost	\$0	\$487,990	\$487,990	\$0	\$1,117,996	\$1,117,996	\$0	\$2,183,362	\$2,183,362	\$0	\$1,575,123	\$1,575,123
Green Pricing Program	MWh Average Cost												
	total Cost	\$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 (MWh's)		201,998	230,737	29,638	135,514	169,313	33,799	153,423	284,820	131,397	175,604	341,498	165,894
total Inter System Sales Market (Dollars)		\$4,329,872	\$4,781,566	\$451,694	\$2,944,904	\$3,555,350	\$610,447	\$3,343,042	\$5,265,056	\$1,922,813	\$3,891,873	\$7,279,019	\$3,387,146

Inter System Sales Customer Sales										
		Aug 20			Sep 20			Oct 20		
		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	\$130 124	\$136 200	\$6 076	\$171 312	\$122 676	(\$48 636)	\$131 770	\$126 072	(\$5 698)
Economy and Non Firm Energy	MWh Average Cost									
	total Cost	\$1 905 623	\$1 524 124	(\$381 498)	\$1 770 161	\$1 600 134	(\$170 027)	\$1 446 202	\$1 476 232	\$30 030
Excessive Energy	MWh Average Cost									
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Incremental and Price Recall	MWh Average Cost									
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
total Inter System Sales Customer (MWh's)		74 148	72 928	(1 220)	71 770	78 034	6 264	59 203	72 944	13 741
total Inter System Sales Customer (Dollars)		\$2 035 747	\$1 660 325	(\$375 422)	\$1 941 473	\$1 722 810	(\$218 663)	\$1 577 972	\$1 602 304	\$24 332
Inter System Sales Market Sales										
		Aug 20			Sep 20			Oct 20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Basin Energy	MWh Average Cost									
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Oconto	MWh Average Cost									
	total Cost	\$223 978	\$219 868	(\$4 110)	\$217 499	\$160 011	(\$57 488)	\$225 634	\$174 942	(\$50 691)
AEP Energy	MWh Average Cost									
	total Cost	\$363 152	\$332 388	(\$30 765)	\$364 402	\$326 222	(\$38 181)	\$383 258	\$334 693	(\$48 565)
NextEra Energy	MWh Average Cost									
	total Cost	\$363 152	\$332 388	(\$30 764)	\$364 402	\$326 222	(\$38 180)	\$383 258	\$334 692	(\$48 566)
Asset Backed Sales (Non MISO)	MWh Average Cost									
	total Cost	\$782 783	\$41 564	(\$741 219)	\$538 861	\$27 314	(\$511 547)	\$2 096 449	\$63 690	(\$2 032 759)
Minnkota Power Liquidation	MWh Average Cost									
	total Cost	\$1 808 807	\$1 389 303	(\$419 504)	\$1 560 945	\$1 504 730	(\$56 215)	\$1 832 641	\$1 206 197	(\$626 444)
Shell Energy	MWh Average Cost									
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Liquidated Sales	MWh Average Cost									
	total Cost	\$0	\$798 165	\$798 165	\$0	\$701 276	\$701 276	\$0	\$335 941	\$335 941
MISO Market Sales	MWh Average Cost									
	total Cost	\$0	\$1 756 590	\$1 756 590	\$0	\$1 039 457	\$1 039 457	\$0	\$1 976 822	\$1 976 822
Green Pricing Program	MWh Average Cost									
	total Cost	\$0	\$2 540	\$2 540	\$0	\$2 540	\$2 540	\$0	\$2 540	\$2 540
total Inter System Sales Market (MWh's)		163 353	235 672	72 319	138 067	208 960	70 893	223 938	277 617	53 679
total Inter System Sales Market (Dollars)		\$3 541 872	\$4 872 905	\$1 330 933	\$3 046 110	\$4 067 772	\$1 041 662	\$4 921 239	\$4 429 515	(\$491 724)

Inter System Sales Customer Sales							
		Nov 20			Dec 20		
		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	\$209 460	\$108 825	(\$100 634)	\$201 963	\$198 901	(\$3 063)
Economy and Non Firm Energy	MWh						
	Average Cost						
	total Cost	\$1 757 691	\$1 431 743	(\$325 947)	\$1 852 336	\$1 387 089	RADE SECRE DA A ENDS] (\$465 247)
Excessive Energy	MWh						
	Average Cost						
	total Cost	\$0	\$0	\$0	\$0	RADE SECRE DA A ENDS] \$669 783	\$669 783
Incremental and Price Recall	MWh						
	Average Cost						
	total Cost	\$0	\$0	\$0	\$0	\$0	\$0
total Inter System Sales Customer (MWh's)		72 889	70 486	(2 403)	75 096	99 371	24 275
total Inter System Sales Customer (Dollars)		\$1 967 150	\$1 540 568	(\$426 582)	\$2 054 300	\$2 255 773	\$201 474
Inter System Sales Market Sales							
		Nov 20			Dec 20		
		Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Basin Energy	MWh						
	Average Cost						
	total Cost	\$0	\$0	\$0	\$0	RADE SECRE DA A ENDS] \$0	\$0
Oconto	MWh						
	Average Cost						
	total Cost	\$218 172	\$182 170	(\$36 001)	\$225 515	RADE SECRE DA A ENDS] \$219 927	(\$5 588)
AEP Energy	MWh						
	Average Cost						
	total Cost	\$348 123	\$300 516	(\$47 608)	\$383 055	RADE SECRE DA A ENDS] \$331 102	(\$51 953)
NextEra Energy	MWh						
	Average Cost						
	total Cost	\$348 123	\$300 517	(\$47 607)	\$383 055	\$331 102	(\$51 953)
Asset Backed Sales (Non MISO)	MWh						
	Average Cost						
	total Cost	\$1 839 695	\$208 437	(\$1 631 258)	\$1 292 531	RADE SECRE DA A ENDS] \$162 656	(\$1 129 875)
Minnesota Power Liquidation	MWh						
	Average Cost						
	total Cost	\$1 763 915	\$1 304 962	(\$458 954)	\$1 824 895	RADE SECRE DA A ENDS] \$1 396 355	(\$428 540)
Shell Energy	MWh						
	Average Cost						
	total Cost	\$0	\$0	\$0	\$0	RADE SECRE DA A ENDS] \$0	\$0
Liquidated Sales	MWh						
	Average Cost						
	total Cost	\$0	\$633 068	\$633 068	\$0	RADE SECRE DA A ENDS] \$1 045 277	\$1 045 277
MISO Market Sales	MWh						
	Average Cost						
	total Cost	\$0	\$1 893 081	\$1 893 081	\$0	\$1 761 955	\$1 761 955
Green Pricing Program	MWh						
	Average Cost						
	total Cost	\$0	\$2 540	\$2 540	\$0	RADE SECRE DA A ENDS] \$2 540	\$2 540
total Inter System Sales Market (MWh's)		207 186	292 172	\$4 987	188 460	250 571	62 112
total Inter System Sales Market (Dollars)		\$4 518 029	\$4 825 291	\$307 262	\$4 109 051	\$5 250 914	\$1 141 863

Inter System Sales Station Service												
	Y D 2020			an 20			Feb 20			Mar 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over (Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Oliver County 1	[REDACTED]											
total Cost	\$6 826	\$3 729	(\$3 096)	\$569	\$1 047	\$479	\$569	\$315	(\$254)	\$569	\$314	(\$255)
Oliver County 2	[REDACTED]											
total Cost	\$10 342	\$4 760	(\$5 582)	\$862	\$1 283	\$421	\$862	\$462	(\$400)	\$862	\$463	(\$399)
WPPI Energy	[REDACTED]											
total Cost	\$152 208	\$65 651	(\$86 558)	\$2 906	\$0	(\$2 906)	\$2 906	\$0	(\$2 906)	\$2 906	\$169	(\$2 737)
Wing River	[REDACTED]											
total Cost	\$0	\$31	\$31	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
total Inter System Sales Station Service (MWh's)	6 172	4 521	(1 650)	167	97	(70)	167	44	(123)	167	55	(113)
total Inter System Sales Station Service (Dollars)	\$169 376	\$74 171	(\$95 205)	\$4 337	\$2 330	(\$2 007)	\$4 337	\$777	(\$3 560)	\$4 337	\$946	(\$3 391)
Inter System Sales MISO Costs												
	Y D 2020			an 20			Feb 20			Mar 20		
	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	\$209 656	\$0	(\$209 656)	\$23 078	\$0	(\$23 078)	\$12 869	\$0	(\$12 869)	\$13 262	\$0	(\$13 262)
MISO Recovered thru Market Sales	\$1 390 789	\$1 780 984	\$390 195	\$166 081	\$162 651	(\$3 430)	\$93 406	\$91 601	(\$1 805)	\$106 690	\$95 648	(\$11 042)
total Inter System Sales MISO Costs (Dollars)	\$1 600 445	\$1 780 984	\$180 539	\$189 159	\$162 651	(\$26 507)	\$106 275	\$91 601	(\$14 674)	\$119 952	\$95 648	(\$24 304)
Inter System Sales Sales due to Retail and Resale Loss of Load												
	Y D 2020			an 20			Feb 20			Mar 20		
	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	\$0	\$11 671 076	\$11 671 076	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MISO Recovered thru Sales due to Retail and Resale Loss of Load	\$0	\$1 286 877	\$1 286 877	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Liquidation for Sales due to Retail and Resale Loss of Load	\$0	\$101 367	\$101 367	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
total Inter System Sales Sales due to Retail and Resale Loss of Load (MWh's)	[REDACTED]											
total Inter System Sales Sales due to Retail and Resale Loss of Load (Dollars)	\$0	\$13 059 320	\$13 059 320	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Inter System Sales Asset Based Margins												
	Y D 2020			an 20			Feb 20			Mar 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over (Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Asset Based Margins	\$5 631 302	\$3 671 735	(\$1 959 567)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
total Inter System Sales MISO Costs (Dollars)	\$5 631 302	\$3 671 735	(\$1 959 567)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
total Company Inter System Sales												
	Y D 2020			an 20			Feb 20			Mar 20		
	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 MWh's	3 047 421	4 415 869	1 368 448	288 144	360 383	72 239	257 361	355 824	98 463	276 364	330 956	54 593
total Company Inter System Sales Dollars	\$78 133 355	\$97 823 379	\$19 690 024	\$6 719 451	\$7 874 496	\$1 155 045	\$6 043 496	\$7 623 800	\$1 580 305	\$6 456 897	\$7 244 399	\$787 502

Inter System Sales Station Service												
	Apr 20			May 20			Jun 20			Jul 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Oliver County 1	[REDACTED]											
total Cost	\$569	\$202	(\$367)	\$569	\$249	(\$319)	\$569	\$216	(\$353)	\$569	\$444	(\$125)
Oliver County 2	[REDACTED]											
total Cost	\$862	\$225	(\$637)	\$862	\$373	(\$489)	\$862	\$229	(\$632)	\$862	\$527	(\$335)
WPPI Energy	[REDACTED]											
total Cost	\$55,317	\$37,955	(\$17,361)	\$57,173	\$4,182	(\$52,991)	\$2,906	\$12,543	\$9,636	\$2,906	\$0	(\$2,906)
Wing River	[REDACTED]											
total Cost	\$0	\$31	\$31	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
total Inter System Sales Station Service (MWh's)	2,026	2,342	315	2,092	330	(1,763)	167	774	607	167	62	(106)
total Inter System Sales Station Service (Dollars)	\$56,747	\$38,413	(\$18,334)	\$58,604	\$4,804	(\$53,799)	\$4,337	\$12,988	\$8,651	\$4,337	\$971	(\$3,366)
Inter System Sales MISO Costs												
	Apr 20			May 20			Jun 20			Jul 20		
	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	\$9,120	\$0	(\$9,120)	\$6,863	\$0	(\$6,863)	\$16,101	\$0	(\$16,101)	\$26,429	\$0	(\$26,429)
MISO Recovered thru Market Sales	\$78,266	\$100,755	\$22,489	\$25,545	\$43,931	\$18,387	\$104,159	\$127,790	\$23,632	\$138,644	\$324,491	\$185,847
total Inter System Sales MISO Costs (Dollars)	\$87,386	\$100,755	\$13,369	\$32,407	\$43,931	\$11,524	\$120,260	\$127,790	\$7,530	\$165,072	\$324,491	\$159,418
Inter System Sales Sales due to Retail and Resale Loss of Load												
	Apr 20			May 20			Jun 20			Jul 20		
	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	[REDACTED]											
total Cost	\$0	\$0	\$0	\$0	\$5,330	\$5,330	\$0	\$525,065	\$525,065	\$0	\$1,093,137	\$1,093,137
MISO Recovered thru Sales due to Retail and Resale Loss of Load	\$0	\$0	\$0	\$0	\$238	\$238	\$0	\$23,860	\$23,860	\$0	\$106,822	\$106,822
Liquidation for Sales due to Retail and Resale Loss of Load	\$0	\$0	\$0	\$0	\$69	\$69	\$0	\$2,869	\$2,869	\$0	(\$41,569)	(\$41,569)
total Inter System Sales Sales due to Retail and Resale Loss of Load (MWh's)	[REDACTED]											
total Inter System Sales Sales due to Retail and Resale Loss of Load (Dollars)	\$0	\$0	\$0	\$0	\$5,637	\$5,637	\$0	\$551,794	\$551,794	\$0	\$1,158,391	\$1,158,391
Inter System Sales Asset Based Margins												
	Apr 20			May 20			Jun 20			Jul 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Asset Based Margins	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,192,136	\$693,515	(\$498,621)
total Inter System Sales MISO Costs (Dollars)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,192,136	\$693,515	(\$498,621)
Total Company Inter System Sales												
	Apr 20			May 20			Jun 20			Jul 20		
	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 MWh's	269,297	285,202	15,905	210,086	204,388	(5,697)	220,160	339,204	119,044	250,665	416,634	165,969
total Company Inter System Sales Dollars	\$6,313,673	\$6,048,112	(\$265,561)	\$5,037,719	\$4,421,418	(\$616,301)	\$5,271,080	\$6,826,193	\$1,555,113	\$7,326,657	\$10,368,105	\$3,041,447

Inter System Sales Station Service									
	Aug 20			Sep 20			Oct 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
	Oliver County 1	[REDACTED]							
total Cost	\$569	\$314	(\$255)	\$569	\$75	(\$494)	\$569	\$310	(\$259)
Oliver County 2	[REDACTED]								
total Cost	\$862	\$449	(\$413)	\$862	\$121	(\$740)	\$862	\$317	(\$544)
WPPI Energy	[REDACTED]								
total Cost	\$2 906	\$0	(\$2 906)	\$2 906	\$0	(\$2 906)	\$13 561	\$10 569	(\$2 992)
Wing River	[REDACTED]								
total Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
total Inter System Sales Station Service (MWh's)	167	30	(137)	167	11	(156)	545	691	145
total Inter System Sales Station Service (Dollars)	\$4 337	\$763	(\$3 574)	\$4 337	\$196	(\$4 141)	\$14 991	\$11 196	(\$3 795)
Inter System Sales MISO Costs									
	Aug 20			Sep 20			Oct 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
	MISO Recovered thru Customer Sales	\$21 348	\$0	(\$21 348)	\$18 479	\$0	(\$18 479)	\$16 527	\$0
MISO Recovered thru Market Sales	\$119 881	\$81 640	(\$38 241)	\$80 123	\$188 788	\$108 665	\$150 612	\$182 176	\$31 563
total Inter System Sales MISO Costs (Dollars)	\$141 230	\$81 640	(\$59 589)	\$98 602	\$188 788	\$90 186	\$167 139	\$182 176	\$15 037
Inter System Sales Sales due to Retail and Resale Loss of Load									
	Aug 20			Sep 20			Oct 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
	Sales due to Retail and Resale Loss of Load	\$0	\$775 760	\$775 760	\$0	\$2 487 664	\$2 487 664	\$0	\$2 544 560
MISO Recovered thru Sales due to Retail and Resale Loss of Load	\$0	\$35 199	\$35 199	\$0	\$403 249	\$403 249	\$0	\$289 423	\$289 423
Liquidation for Sales due to Retail and Resale Loss of Load	\$0	\$5 188	\$5 188	\$0	(\$10 210)	(\$10 210)	\$0	\$80 205	\$80 205
total Inter System Sales Sales due to Retail and Resale Loss of Load (MWh's)	[REDACTED]								
total Inter System Sales Sales due to Retail and Resale Loss of Load (Dollars)	\$0	\$816 147	\$816 147	\$0	\$2 880 702	\$2 880 702	\$0	\$2 914 187	\$2 914 187
Inter System Sales Asset Based Margins									
	Aug 20			Sep 20			Oct 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
	Asset Based Margins	\$1 054 065	\$927 600	(\$126 465)	\$885 928	\$569 616	(\$316 312)	\$628 836	\$351 828
total Inter System Sales MISO Costs (Dollars)	\$1 054 065	\$927 600	(\$126 465)	\$885 928	\$569 616	(\$316 312)	\$628 836	\$351 828	(\$277 008)
	Aug 20			Sep 20			Oct 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
	total Company Inter System Sales MWh's	237 668	335 510	97 842	210 025	404 365	194 341	283 687	469 548
total Company Inter System Sales Dollars	\$6 777 251	\$8 359 289	\$1 582 038	\$5 976 450	\$9 449 885	\$3 473 436	\$7 310 177	\$9 491 207	\$2 181 029

Inter System Sales Station Service						
	Nov 20			Dec 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Oliver County 1	[REDACTED]					
MWh	[REDACTED]					
Average Cost	[REDACTED]					
total Cost	\$569	\$95	(\$474)	\$569	\$148	(\$421)
	RADE SECRE DA A ENDSI					
Oliver County 2	[REDACTED]					
MWh	[REDACTED]					
Average Cost	[REDACTED]					
total Cost	\$862	\$133	(\$729)	\$862	\$178	(\$684)
	RADE SECRE DA A ENDSI					
WPPI Energy	[REDACTED]					
MWh	[REDACTED]					
Average Cost	[REDACTED]					
total Cost	\$2 906	\$0	(\$2 906)	\$2 906	\$233	(\$2 674)
	RADE SECRE DA A ENDSI					
Wing River	[REDACTED]					
MWh	[REDACTED]					
Average Cost	[REDACTED]					
total Cost	\$0	\$0	\$0	\$0	\$0	\$0
total Inter System Sales Station Service (MWh's)	167	12	(155)	167	73	(95)
total Inter System Sales Station Service (Dollars)	\$4 337	\$228	(\$4 109)	\$4 337	\$558	(\$3 779)
Inter System Sales MISO Costs						
	Nov 20			Dec 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
MISO Recovered thru Customer Sales	\$21 512	\$0	(\$21 512)	\$24 068	\$0	(\$24 068)
	RADE SECRE DA A ENDSI					
MISO Recovered thru Market Sales	\$166 619	\$195 386	\$28 767	\$160 764	\$186 126	\$25 362
total Inter System Sales MISO Costs (Dollars)	\$188 131	\$195 386	\$7 255	\$184 832	\$186 126	\$1 294
Inter System Sales Sales due to Retail and Resale Loss of Load						
	Nov 20			Dec 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Sales due to Retail and Resale Loss of Load	[REDACTED]					
MWh	[REDACTED]					
Average Cost	[REDACTED]					
total Cost	\$0	\$2 579 711	\$2 579 711	\$0	\$1 659 850	\$1 659 850
	RADE SECRE DA A ENDSI					
MISO Recovered thru Sales due to Retail and Resale Loss of Load	\$0	\$278 900	\$278 900	\$0	\$149 185	\$149 185
	RADE SECRE DA A ENDSI					
Liquidation for Sales due to Retail and Resale Loss of Load	\$0	\$73 164	\$73 164	\$0	(\$8 348)	(\$8 348)
	RADE SECRE DA A ENDSI					
total Inter System Sales Sales due to Retail and Resale Loss of Load (MWh's)	[REDACTED]					
total Inter System Sales Sales due to Retail and Resale Loss of Load (Dollars)	\$0	\$2 931 775	\$2 931 775	\$0	\$1 800 687	\$1 800 687
Inter System Sales Asset Based Margins						
	Nov 20			Dec 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Asset Based Margins	\$887 099	\$296 991	(\$590 108)	\$983 238	\$832 185	(\$151 053)
total Inter System Sales MISO Costs (Dollars)	\$887 099	\$296 991	(\$590 108)	\$983 238	\$832 185	(\$151 053)
Inter System Sales Summary						
	Nov 20			Dec 20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
total Company Inter System Sales MWh's	280 242	487 951	207 709	263 723	425 903	162 180
total Company Inter System Sales Dollars	\$7 564 746	\$9 790 239	\$2 225 493	\$7 335 758	\$10 326 244	\$2 990 486

SOLAR ENERGY ADJUSTMENT

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	YTD 2020			January 2020			February 2020		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
FUEL COST									
Total Monthly Fuel Cost	241,425,292	188,445,433	(52,979,859)	20,937,553	17,384,622	(3,552,931)	18,425,260	15,309,945	(3,115,315)
Less: Costs related to Solar	101,692	70	(101,623)	0	0	0	0	0	0
Total Non-Solar FAC Costs	241,323,600	188,445,363	(52,878,236)	20,937,553	17,384,622	(3,552,931)	18,425,260	15,309,945	(3,115,315)
Current 2-Month Total Fuel Cost	478,568,046	378,112,470	(100,455,576)	40,646,920	37,172,248	(3,474,672)	39,362,813	32,694,567	(6,668,246)
KWH SALES									
Total Monthly KWH Sales	9,783,121,000	8,452,857,975	(1,330,263,025)	898,669,000	861,962,235	(36,706,765)	806,534,000	829,485,688	22,951,688
Less: Solar Generation and Purchases	18,465,656	16,165,265	(2,300,391)	868,239	423,641	(444,598)	1,117,483	1,377,877	260,394
Total Non-Solar FAC KWH Sales	9,764,655,344	8,436,692,710	(1,327,962,634)	897,800,761	861,538,594	(36,262,167)	805,416,517	828,107,811	22,691,294
Current 2-Month Total KWH Sales	19,536,309,406	16,937,336,248	(2,598,973,158)	1,789,228,902	1,683,257,751	(105,971,151)	1,703,217,278	1,689,646,405	(13,570,873)
Fuel Cost - cents/kWh	2.450	2.232	(0.218)	2.272	2.208	(0.064)	2.311	1.935	(0.376)
TOGA Percentage	115.93%	123.21%	7.28%	131.45%	157.27%	25.81%	136.35%	142.77%	6.42%
Fuel Cost Credit to the SEA - cents/kWh	2.840	2.750	(0.090)	2.987	3.472	0.486	3.151	2.763	(0.388)
BILLING MONTH:	YTD 2020			March 2020			April 2020		
TIME OF GENERATION ADJUSTMENT (TOGA)									
TOGA Percentage	115.93%	123.21%	7.28%	131.45%	157.27%	25.81%	136.35%	142.77%	6.42%
Less: 100 Percent	100.00%	100.00%	0.00%	100.00%	100.00%	0.00%	100.00%	100.00%	0.00%
Total TOGA Percentage to the FAC	15.93%	23.21%	7.28%	31.45%	57.27%	25.81%	36.35%	42.77%	6.42%
TOGA to the FAC (Dollars)	\$64,617.83	\$70,068.67	\$5,450.84	\$6,204.09	\$5,356.61	(\$847.48)	\$9,386.31	\$11,403.24	\$2,016.93
SOLAR COSTS									
Costs Related to Solar	\$101,692.43	\$69.83	(\$101,622.60)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.04	\$0.04
Less: Credit from FAC / TOGA	\$519,336.24	\$444,564.28	(\$74,771.96)	\$25,930.48	\$14,710.60	(\$11,219.88)	\$35,211.35	\$38,065.16	\$2,853.81
Net Costs Related to Solar	(\$417,643.81)	(\$444,494.45)	(\$26,850.64)	(\$25,930.48)	(\$14,710.60)	\$11,219.88	(\$35,211.35)	(\$38,065.12)	(\$2,853.77)
Current 2-Month Net Costs Related to Solar	(\$846,173.66)	(\$858,208.43)	(\$12,034.77)	(\$42,268.06)	(\$23,863.93)	\$18,404.14	(\$61,141.82)	(\$52,775.72)	\$8,366.11
KWH SALES									
Total Monthly KWH Sales	9,783,121,000	8,452,857,975	(1,330,263,025)	898,669,000	861,962,235	(36,706,765)	806,534,000	829,485,688	22,951,688
Less: Retail SES Exempt	5,357,896,219	4,219,153,203	(1,138,743,016)	466,624,518	447,305,863	(19,318,655)	420,118,518	426,930,576	6,812,058
Less: Municipal SES Exempt	1,355,385,000	1,340,289,566	(15,095,434)	128,126,000	129,937,243	1,811,243	112,748,000	120,081,144	7,333,144
Total Non-Exempt KWh Sales	3,069,839,781	2,893,415,206	(176,424,575)	303,918,482	284,719,129	(19,199,353)	273,667,482	282,473,968	8,806,486
Current 2-Month Total Non-Exempt KWh Sales	6,140,508,753	5,799,876,860	(340,631,893)	606,711,154	546,197,666	(60,513,488)	577,585,964	567,193,097	(10,392,867)
SEA ADJUSTMENT									
SEA Adjustment - Dollars per KWH	(\$0.00014)	(\$0.00015)	(\$0.00001)	(\$0.00007)	(\$0.00004)	\$0.00003	(\$0.00011)	(\$0.00009)	\$0.00001
SEA Adjustment - cents per KWH	(\$0.01378)	(\$0.01480)	(\$0.00102)	(\$0.00697)	(\$0.00437)	\$0.00260	(\$0.01059)	(\$0.00930)	\$0.00128
BILLING MONTH:	February 2020			March 2020			April 2020		

SOLAR ENERGY ADJUSTMENT

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	March 2020			April 2020			May 2020		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
FUEL COST									
Total Monthly Fuel Cost	18,922,851	15,222,243	(3,700,608)	16,105,193	11,585,693	(4,519,500)	16,273,408	9,576,564	(6,696,844)
Less: Costs related to Solar	0	0	0	0	(0)	(0)	0	0	0
Total Non-Solar FAC Costs	18,922,851	15,222,243	(3,700,608)	16,105,193	11,585,693	(4,519,500)	16,273,408	9,576,564	(6,696,844)
Current 2-Month Total Fuel Cost	37,348,111	30,532,188	(6,815,923)	35,028,044	26,807,936	(8,220,108)	32,378,602	21,162,257	(11,216,345)
KWH SALES									
Total Monthly KWH Sales	850,935,000	840,406,229	(10,528,771)	761,111,000	703,716,632	(57,394,368)	788,483,000	546,405,246	(242,077,754)
Less: Solar Generation and Purchases	1,340,317	1,414,084	73,777	1,585,019	1,675,384	90,365	1,777,499	1,611,428	(166,071)
Total Non-Solar FAC KWH Sales	849,594,683	838,992,135	(10,602,548)	759,525,981	702,041,248	(57,484,733)	786,705,501	544,793,818	(241,911,683)
Current 2-Month Total KWH Sales	1,655,011,200	1,667,099,946	12,088,746	1,609,120,664	1,541,033,383	(68,087,281)	1,546,231,481	1,246,835,066	(299,396,415)
Fuel Cost - cents/kWh	2.257	1.831	(0.426)	2.177	1.740	(0.437)	2.094	1.697	(0.397)
TOGA Percentage	132.15%	152.38%	20.23%	124.40%	156.88%	32.47%	129.05%	162.14%	33.09%
Fuel Cost Credit to the SEA - cents/kWh	2.983	2.790	(0.192)	2.708	2.730	0.021	2.702	2.751	0.049
BILLING MONTH:	May 2020			June 2020			July 2020		
TIME OF GENERATION ADJUSTMENT (TOGA)									
TOGA Percentage	132.15%	152.38%	20.23%	124.40%	156.88%	32.47%	129.05%	162.14%	33.09%
Less: 100 Percent	100.00%	100.00%		100.00%	100.00%		100.00%	100.00%	
Total TOGA Percentage to the FAC	32.15%	52.38%	20.23%	24.40%	56.88%	32.47%	29.05%	62.14%	33.09%
TOGA to the FAC (Dollars)	\$9,726.13	\$13,563.48	\$3,837.36	\$8,420.24	\$16,580.25	\$8,160.01	\$10,811.42	\$16,991.71	\$6,180.29
SOLAR COSTS									
Costs Related to Solar	\$0.00	\$0.01	\$0.01	\$0.00	(\$0.02)	(\$0.02)	\$0.00	\$0.03	\$0.03
Less: Credit from FAC / TOGA	\$39,977.07	\$39,455.54	(\$521.53)	\$42,926.11	\$45,731.93	\$2,805.82	\$48,032.26	\$44,337.65	(\$3,694.61)
Net Costs Related to Solar	(\$39,977.07)	(\$39,455.53)	\$521.54	(\$42,926.11)	(\$45,731.95)	(\$2,805.84)	(\$48,032.26)	(\$44,337.62)	\$3,694.64
Current 2-Month Net Costs Related to Solar	(\$75,188.42)	(\$77,520.65)	(\$2,332.23)	(\$82,903.18)	(\$85,187.49)	(\$2,284.31)	(\$90,958.37)	(\$90,069.57)	\$888.80
KWH SALES									
Total Monthly KWH Sales	850,935,000	840,406,229	(10,528,771)	761,111,000	703,716,632	(57,394,368)	788,483,000	546,405,246	(242,077,754)
Less: Retail SES Exempt	453,747,518	458,427,262	4,679,744	421,855,518	368,208,111	(53,647,407)	455,978,518	245,195,601	(210,782,917)
Less: Municipal SES Exempt	116,521,000	117,336,359	815,359	107,220,000	101,681,810	(5,538,190)	108,094,000	95,248,519	(10,845,481)
Total Non-Exempt KWh Sales	280,666,482	264,642,608	(16,023,874)	232,035,482	233,826,711	1,791,229	226,410,482	205,961,126	(20,449,356)
Current 2-Month Total Non-Exempt KWh Sales	554,333,964	547,116,576	(7,217,388)	512,701,964	498,469,319	(14,232,645)	458,445,964	439,787,837	(18,658,127)
SEA ADJUSTMENT									
SEA Adjustment - Dollars per KWH	(\$0.00014)	(\$0.00014)	(\$0.00001)	(\$0.00016)	(\$0.00017)	(\$0.00001)	(\$0.00020)	(\$0.00020)	(\$0.00001)
SEA Adjustment - cents per KWH	(\$0.01356)	(\$0.01417)	(\$0.00061)	(\$0.01617)	(\$0.01709)	(\$0.00092)	(\$0.01984)	(\$0.02048)	(\$0.00064)
BILLING MONTH:	May 2020			June 2020			July 2020		

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	June 2020			July 2020			August 2020		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
FUEL COST									
Total Monthly Fuel Cost	19,871,241	14,518,287	(5,352,954)	22,847,918	16,195,200	(6,652,718)	22,970,713	17,858,108	(5,112,605)
Less: Costs related to Solar	0	3	3	0	0	0	0	2	2
Total Non-Solar FAC Costs	19,871,241	14,518,284	(5,352,956)	22,847,918	16,195,200	(6,652,718)	22,970,713	17,858,106	(5,112,607)
Current 2-Month Total Fuel Cost	36,144,649	24,094,848	(12,049,800)	42,719,158	30,713,484	(12,005,674)	45,818,630	34,053,306	(11,765,325)
KWH SALES									
Total Monthly KWH Sales	767,910,000	541,125,320	(226,784,680)	828,952,000	588,853,747	(240,098,253)	825,627,000	728,073,012	(97,553,988)
Less: Solar Generation and Purchases	1,821,470	1,713,040	(108,430)	1,951,945	1,953,962	2,017	1,789,674	1,809,618	19,944
Total Non-Solar FAC KWH Sales	766,088,530	539,412,280	(226,676,250)	827,000,055	586,899,785	(240,100,270)	823,837,326	726,263,394	(97,573,932)
Current 2-Month Total KWH Sales	1,552,794,031	1,084,206,098	(468,587,933)	1,593,088,585	1,126,312,065	(466,776,520)	1,650,837,381	1,313,163,179	(337,674,202)
Fuel Cost - cents/kWh	2.328	2.222	(0.106)	2.682	2.727	0.045	2.775	2.593	(0.182)
TOGA Percentage	104.22%	106.61%	2.39%	125.43%	112.89%	-12.54%	121.93%	109.80%	-12.13%
Fuel Cost Credit to the SEA - cents/kWh	2.426	2.369	(0.057)	3.364	3.078	(0.285)	3.384	2.847	(0.537)
BILLING MONTH:	August 2020			September 2020			October 2020		
TIME OF GENERATION ADJUSTMENT (TOGA)									
TOGA Percentage	104.22%	106.61%	2.39%	125.43%	112.89%	-12.54%	121.93%	109.80%	-12.13%
Less: 100 Percent	100.00%	100.00%		100.00%	100.00%		100.00%	100.00%	
Total TOGA Percentage to the FAC	4.22%	6.61%	2.39%	25.43%	12.89%	-12.54%	21.93%	9.80%	-12.13%
TOGA to the FAC (Dollars)	\$1,789.99	\$2,516.34	\$726.35	\$13,310.72	\$6,867.76	(\$6,442.96)	\$10,892.60	\$4,598.52	(\$6,294.09)
SOLAR COSTS									
Costs Related to Solar	\$0.00	\$2.59	\$2.59	\$0.00	\$0.02	\$0.02	\$0.00	\$2.09	\$2.09
Less: Credit from FAC / TOGA	\$44,193.81	\$40,580.09	(\$3,613.72)	\$65,661.90	\$60,152.30	(\$5,509.59)	\$60,556.05	\$51,521.91	(\$9,034.13)
Net Costs Related to Solar	(\$44,193.81)	(\$40,577.50)	\$3,616.31	(\$65,661.90)	(\$60,152.28)	\$5,509.61	(\$60,556.05)	(\$51,519.82)	\$9,036.22
Current 2-Month Net Costs Related to Solar	(\$82,226.07)	(\$84,915.12)	\$7,310.96	(\$109,855.71)	(\$100,729.78)	\$9,125.93	(\$126,217.94)	(\$111,672.10)	\$14,545.84
KWH SALES									
Total Monthly KWH Sales	767,910,000	541,125,320	(226,784,680)	828,952,000	588,853,747	(240,098,253)	825,627,000	728,073,012	(97,553,988)
Less: Retail SES Exempt	441,536,518	230,890,714	(210,645,804)	458,456,518	232,363,633	(226,092,885)	457,664,518	367,022,003	(90,642,515)
Less: Municipal SES Exempt	100,957,000	101,210,955	253,955	114,577,000	118,096,866	3,519,866	110,982,000	112,596,337	1,614,337
Total Non-Exempt KWH Sales	226,416,482	209,023,651	(16,392,831)	255,918,482	238,393,248	(17,525,234)	256,980,482	248,454,672	(8,525,810)
Current 2-Month Total Non-Exempt KWH Sales	451,826,964	414,984,777	(36,842,187)	481,334,964	447,416,899	(33,918,065)	512,898,964	486,847,920	(26,051,044)
SEA ADJUSTMENT									
SEA Adjustment - Dollars per KWH	(\$0.00020)	(\$0.00020)	(\$0.00000)	(\$0.00023)	(\$0.00023)	\$0.00000	(\$0.00025)	(\$0.00023)	\$0.00002
SEA Adjustment - cents per KWH	(\$0.02041)	(\$0.02046)	(\$0.00005)	(\$0.02282)	(\$0.02251)	\$0.00031	(\$0.02461)	(\$0.02294)	\$0.00167
BILLING MONTH:	August 2020			September 2020			October 2020		

SOLAR ENERGY ADJUSTMENT

Docket No. E015/M-15-773

	September 2020			October 2020		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
FUEL COST						
Total Monthly Fuel Cost	19,904,256	16,730,113	(3,174,143)	20,096,443	18,205,943	(1,890,500)
Less: Costs related to Solar	0	(0)	(0)	48,838	65	(48,773)
Total Non-Solar FAC Costs	19,904,256	16,730,113	(3,174,143)	20,047,605	18,205,878	(1,841,727)
Current 2-Month Total Fuel Cost	42,874,969	34,588,219	(8,286,750)	39,951,862	34,935,991	(5,015,871)
KWH SALES						
Total Monthly KWH Sales	776,762,000	672,449,981	(104,312,019)	774,557,000	683,125,845	(91,431,155)
Less: Solar Generation and Purchases	1,414,537	1,400,759	(13,778)	2,318,342	1,204,719	(1,113,623)
Total Non-Solar FAC KWH Sales	775,347,463	671,049,222	(104,298,241)	772,238,658	681,921,126	(90,317,532)
Current 2-Month Total KWH Sales	1,599,184,790	1,397,312,616	(201,872,174)	1,547,586,121	1,352,970,348	(194,615,773)
Fuel Cost - cents/kWh	2.681	2.475	(0.206)	2.582	2.582	0.000
TOGA Percentage	115.91%	100.55%	-15.37%	91.82%	80.83%	-10.99%
Fuel Cost Credit to the SEA - cents/kWh	3.108	2.489	(0.619)	2.371	2.087	(0.284)
BILLING MONTH:	November 2020			December 2020		
TIME OF GENERATION ADJUSTMENT (TOGA)						
TOGA Percentage	115.91%	100.55%	-15.37%	91.82%	80.83%	-10.99%
Less: 100 Percent	100.00%	100.00%		100.00%	100.00%	
Total TOGA Percentage to the FAC	15.91%	0.55%	-15.37%	-8.18%	-19.17%	-10.99%
TOGA to the FAC (Dollars)	\$6,035.29	\$190.10	(\$5,845.18)	(\$4,897.07)	(\$5,964.38)	(\$1,067.31)
SOLAR COSTS						
Costs Related to Solar	\$0.00	(\$0.02)	(\$0.02)	\$48,837.99	\$65.08	(\$48,772.91)
Less: Credit from FAC / TOGA	\$43,959.01	\$34,858.89	(\$9,100.12)	\$54,962.53	\$25,141.46	(\$29,821.07)
Net Costs Related to Solar	(\$43,959.01)	(\$34,858.91)	\$9,100.10	(\$6,124.54)	(\$25,076.38)	(\$18,951.84)
Current 2-Month Net Costs Related to Solar	(\$104,515.06)	(\$86,378.73)	\$18,136.33	(\$50,083.55)	(\$59,935.29)	(\$9,851.74)
KWH SALES						
Total Monthly kWh Sales	776,762,000	672,449,981	(104,312,019)	774,557,000	683,125,845	(91,431,155)
Less: Retail SES Exempt	435,506,518	343,858,398	(91,648,120)	440,011,518	357,654,905	(82,356,613)
Less: Municipal SES Exempt	106,818,000	96,907,138	(9,910,862)	108,576,000	110,165,549	1,589,549
Total Non-Exempt kWh Sales	234,437,482	231,684,445	(2,753,037)	225,969,482	215,305,391	(10,664,091)
Current 2-Month Total Non-Exempt kWh Sales	491,417,964	480,139,117	(11,278,847)	460,406,964	446,989,836	(13,417,128)
SEA ADJUSTMENT						
SEA Adjustment - Dollars per KWH	(\$0.00021)	(\$0.00018)	\$0.00003	(\$0.00011)	(\$0.00013)	(\$0.00003)
SEA Adjustment - cents per KWH	(\$0.02127)	(\$0.01799)	\$0.00328	(\$0.01088)	(\$0.01341)	(\$0.00253)
BILLING MONTH:	November 2020			December 2020		

SOLAR ENERGY ADJUSTMENT

Docket No. E015/M-15-773

	November 2020			December 2020		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
FUEL COST						
Total Monthly Fuel Cost	21,261,106	17,292,833	(3,968,273)	23,809,349	18,565,882	(5,243,467)
Less: Costs related to Solar	32,025	0	(32,025)	20,829	(0)	(20,829)
Total Non-Solar FAC Costs	21,229,081	17,292,833	(3,936,248)	23,788,520	18,565,882	(5,222,638)
Current 2-Month Total Fuel Cost	41,276,687	35,498,711	(5,777,976)	45,017,601	35,858,715	(9,158,886)
KWH SALES						
Total Monthly KWh Sales	818,052,000	698,899,409	(119,152,591)	885,529,000	758,354,631	(127,174,369)
Less: Solar Generation and Purchases	1,381,554	994,441	(387,113)	1,099,577	586,302	(513,275)
Total Non-Solar FAC KWh Sales	816,670,446	697,904,968	(118,765,478)	884,429,423	757,768,329	(126,661,094)
Current 2-Month Total KWh Sales	1,588,909,104	1,379,826,094	(209,083,010)	1,701,099,869	1,455,673,297	(245,426,572)
Fuel Cost - cents/kWh	2.598	2.573	(0.025)	2.646	2.463	(0.183)
TOGA Percentage	88.16%	86.34%	-1.83%	90.33%	110.12%	19.79%
Fuel Cost Credit to the SEA - cents/kWh	2.291	2.221	(0.069)	2.390	2.712	0.322
BILLING MONTH:	January 2021			February 2021		
TIME OF GENERATION ADJUSTMENT (TOGA)						
TOGA Percentage	88.16%	86.34%	-1.83%	90.33%	110.12%	19.79%
Less: 100 Percent	100.00%	100.00%		100.00%	100.00%	
Total TOGA Percentage to the FAC	-11.84%	-13.66%	-1.83%	-9.67%	10.12%	19.79%
TOGA to the FAC (Dollars)	(\$4,248.10)	(\$3,495.87)	\$752.24	(\$2,813.79)	\$1,460.91	\$4,274.70
SOLAR COSTS						
Costs Related to Solar	\$32,024.97	\$0.04	(\$32,024.93)	\$20,829.47	(\$0.03)	(\$20,829.50)
Less: Credit from FAC / TOGA	\$31,644.67	\$22,091.10	(\$9,553.57)	\$26,281.01	\$15,901.53	(\$10,379.49)
Net Costs Related to Solar	\$380.31	(\$22,091.06)	(\$22,471.37)	(\$5,451.55)	(\$15,901.56)	(\$10,450.01)
Current 2-Month Net Costs Related to Solar	(\$5,744.24)	(\$47,167.44)	(\$41,423.21)	(\$5,071.24)	(\$37,992.62)	(\$32,921.38)
KWH SALES						
Total Monthly kWh Sales	818,052,000	698,899,409	(119,152,591)	885,529,000	758,354,631	(127,174,369)
Less: Retail SES Exempt	450,197,518	355,977,759	(94,219,759)	456,198,518	385,318,378	(70,880,140)
Less: Municipal SES Exempt	115,399,000	112,423,482	(2,975,518)	127,367,000	124,604,164	(2,762,836)
Total Non-Exempt kWh Sales	252,455,482	230,498,168	(21,957,314)	301,963,482	248,432,089	(53,531,393)
Current 2-Month Total Non-Exempt kWh Sales	478,424,964	445,803,559	(32,621,405)	554,418,964	478,930,257	(75,488,707)
SEA ADJUSTMENT						
SEA Adjustment - Dollars per KWH	(\$0.00001)	(\$0.00011)	(\$0.00009)	(\$0.00001)	(\$0.00008)	(\$0.00007)
SEA Adjustment - cents per KWH	(\$0.00120)	(\$0.01058)	(\$0.00938)	(\$0.00091)	(\$0.00793)	(\$0.00702)
BILLING MONTH:	January 2021			February 2021		

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2020 FAC Forecast vs. Actuals

Customer Sales

- Residential came in within 0.3 percent of the 2020 forecast.
- Commercial came in roughly 9.6 percent lower than forecast. Due to the COVID-19 pandemic and the temporary shutdown of some businesses, Minnesota Power saw commercial customers have lower load in 2020.
- Industrial Taconites came in roughly 5.3 percent lower than forecast. Due to the COVID-19 pandemic and its impact on U.S. steel demand, Minnesota Power saw Industrial Taconite customers have lower load in 2020.
- Industrial Paper and Pulp came in roughly 13.7 percent lower than forecast. Due to the COVID-19 pandemic and its impact on U.S. graphic paper demand, Minnesota Power saw Industrial Paper and Pulp customers have lower load in 2020.
- Industrial Pipeline came in roughly 4.2 percent more than forecast.
- Municipals came in within 1.1 percent of the 2020 forecast.
- Other Miscellaneous came in within 16.9 percent lower than forecast. Due to the COVID-19 pandemic and the temporary shutdown of some businesses, Minnesota Power saw commercial customers have lower load in 2020.
- Inter System Sales came in about 1.37 million MWhs above forecast. However, Inter System Sales are removed from the Total Sales of Electricity as they are Non-FAC MWhs. Removing more Inter System Sales decreases the total monthly MWh sales for the calculation of the 1-month Average Cost of Fuel rate. See the Inter System Sales section below for a break down.

Generation Costs

Boswell:

- Boswell total costs came in roughly 27.2 percent lower than forecast. Due to the COVID-19 pandemic, Minnesota Power saw market prices and load drop off in

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2020 and because of this, less Boswell generation was needed to serve load. Also, the price \$/MWh for Boswell fuel cost came in 4.4 percent lower than forecast which reduced the total costs at Boswell. The lower \$/MWh was due to not having all coal procured at the time the forecast was filed in May 2019. An RFP was sent out in the summer of 2019 and came in lower than anticipated.

Hibbard:

- Due to higher temps in July 2020, Hibbard was picked up by MISO for reliability.
- Starting in August 2020, Minnesota Power procured lower priced biofuel for Hibbard and moved to a tier pricing approach. With the lower \$/MWh fuel, Hibbard was offered and picked up more often by MISO from August through December 2020 than what Minnesota Power forecasted.

Laskin:

- 91 percent of Laskin's Generation came in July and August where they were picked up by MISO for reliability.

Wind:

- Wind generation came in 7 percent above forecast as we saw strong wind throughout 2020. Wind generation owned by Minnesota Power has a zero (\$0.00) fuel cost so this increased generation reduced the FAC Costs.

Hydro:

- Minnesota Power saw lower hydro generation in 2020 by about 7.8 percent due to a dry summer. Hydro generation owned by Minnesota Power has a zero (\$0.00) Fuel Cost.

Purchase Costs

Manitoba Hydro:

- The MHEB contract has a variable energy piece (133 Purchase Power Agreement) and throughout 2020, Minnesota Power procured more energy from Manitoba Hydro than was forecasted.

Great River Energy:

- Due to the contract pricing, purchasing from GRE was unfavorable in 2020 so only a small amount of energy was purchased in January 2020.

Market Purchase:

- Customer load was down in 2020 which means there were less market purchases to serve load.

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- Market purchase price per MWh came in 25 percent below forecast due to lower than forecasted MISO Market prices in 2020.

Minnkota Power:

- Came in exactly at forecast per the contract.
- Station Service was slightly lower in 2020 than forecast.

Purchase to serve Non-Firm Retail Customer

- When the 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 section.

Counter Party Purchases:

- IMO/AEP/Shell/NextEra
- 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 need to purchase energy to cover load. This can happen when generation is lower than expected, 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 1:

- Oliver County 1 costs came in 34 percent lower than forecast. This lower cost was due to the repowering of Oliver County 1 which reduced the price from \$29.50/MWh to \$21.73/MWh during 2020. The repower was not reflected in the 2020 forecast.

Oliver County 2:

- Oliver County 2 costs came in 10 percent lower than forecast. This lower cost was due to the repowering of Oliver County 2 which reduced the price from \$41.00/MWh to \$34.00/MWh during 2020. The repower was not reflected in the 2020 forecast.

Wing River:

- Less generation than Minnesota Power forecasted in 2020.

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Nobles:

- Nobles generated earlier than expected and the price came in lower due to a longer period of test energy which has a lower purchase price in 2020.

Blanchard:

- The Blanchard solar project was cancelled and we will no longer be purchasing solar in regards to this contract.

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 2020.

Inter-System Sales

IPS and RFPS:

- Due to the COVID-19 pandemic, loads were down in 2020 which decreased the amount of IPS and RFPS Energy sold to customers.

Economy and Non-Firm:

- Due to the COVID-19 pandemic, loads were down in 2020 which decreased the amount of Economy and RFPS Energy sold to customers.

Excess Energy:

- Excess Energy is not forecasted as it is usually a small amount. Most of the Excess Energy in 2020 is from a customer who did not give a 30-day notice when changing a nomination value and was assessed Excess Energy.

Incremental and Price Recall:

- There were no price recalls during 2020.

Basin:

- There was a slight decrease in \$/MWh due to the calculated rate not being available when the forecast was filed.

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Oconto:

- Due to the COVID-19 pandemic, loads were down in 2020.

AEP:

- AEP's \$/MWh fuel cost came in lower in 2020 due to Boswell fuel being lower in 2020.

NextEra Energy:

- NEPM's \$/MWh fuel cost came in lower in 2020 due to Boswell fuel being lower in 2020. Also, there were additional NEPM deal in January and February 2020 which were not known when the forecast was filed.

Asset Backed Sales (Non-MISO):

- Due to the COVID-19 pandemic, load and market prices were lower in 2020. Minnesota Power's generators were not always called on to be running at full production which means there were less Asset Backed Sales to the market.

Minnkota Power Liquidation:

- Due to the COVID-19 pandemic, loads were down in 2020 and there was less generation output from Square Butte.

Shell Energy:

- SENA sales were not known or under contract at the time of the forecast filing.

Liquidated Sales:

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

Market Sales:

- For the 2020 Forecast, it was determined that every month had a Market Purchase. Because of this, no Market Sales were forecasted as the model does not create a purchase and sale for a month.

Oliver County 1:

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

Oliver County 2:

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

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WPPI Energy:

- WPPI station service is calculated when Boswell 4 is offline. Due to the COVID-19 pandemic, a 55-day planned outage for Boswell 4 was postponed until 2021 which reduce the WPPI station service in 2020.

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.

Sales due to Retail Loss of Load:

- No Loss of Load was anticipated when the forecast was submitted May 1, 2019. Due to the COVID-19 pandemic, large power customer load decreased in 2020 and sales were made to replace the lost load.

Asset Based Margins:

- The Asset Based Margin Credit came in 35 percent lower than forecast. This decrease in the credit is due to market prices being significantly lower in 2020 which reduced the margin on these sales.

**Minnesota Power's
Monthly MISO Day 2 Charges and Allocation
Docket No. E999/AA-07-1130**

2020 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 2020 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 2020 True Up. This difference is roughly 90 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.

Real Time Revenue Neutrality Uplift Amounts:

- Due to Hurricane Laura, costs were incurred that were uplifted to the market on a load ratio share. Minnesota Power incurred roughly \$1.2 million of costs which are reflected in the Real Time Revenue Neutrality Uplift charge.

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.

Description of the following categories shown in this Attachment:

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

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

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

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

MINNESOTA POWER		Account Number	YTD 2020			Jan-20		
MISO MONTHLY ALLOCATION			Forecast	Actual	Difference	Forecast	Actual	Difference
Day Ahead and Real Time Energy								
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	70,335,391.46	70,335,391.46	-	5,253,057.79	5,253,057.79
5	Day Ahead Non-Asset Energy	55500-0027	-	(39,582,803.02)	(39,582,803.02)	-	(1,300,797.01)	(1,300,797.01)
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	8,858,437.03	8,858,437.03	-	1,388,384.84	1,388,384.84
	Excessive Energy Amount	55500-0066	-	13,116.81	13,116.81	-	(389.65)	(389.65)
	Non-Excessive Energy Amount	55500-0069	-	3,970,274.51	3,970,274.51	-	786,108.18	786,108.18
22	Real Time Non-Asset Energy	55500-0043	-	(3,808,154.46)	(3,808,154.46)	-	(180,487.09)	(180,487.09)
	Subtotal		-	39,786,262.33	39,786,262.33	-	5,945,877.05	5,945,877.05
Day Ahead and Real Time Energy Loss								
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	9,702,353.00	8,088,479.72	(1,613,873.28)	1,074,430.00	826,708.51	(247,721.49)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	2,335,854.00	3,959,709.39	1,623,855.39	160,729.00	256,022.43	95,293.43
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-	17,203.37	17,203.37	-	(49,030.04)	(49,030.04)
14	Real Time Distribution of Losses	55500-0041	(3,552,000.00)	(2,150,745.86)	1,401,254.14	(296,000.00)	(272,000.82)	23,999.18
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-	6,944.50	6,944.50	-	-	-
	Subtotal		8,486,207.00	9,921,591.12	1,435,384.12	939,159.00	761,700.08	(177,458.92)
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	1,680,000.00	1,675,585.81	(4,414.19)	140,000.00	171,036.96	31,036.96
19	Real Time Market Administration (Schedule 17)	55500-0036	132,000.00	187,030.55	55,030.55	11,000.00	18,474.02	7,474.02
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	48,000.00	40,493.11	(7,506.89)	4,000.00	3,791.90	(208.10)
	Subtotal		1,860,000.00	1,903,109.47	43,109.47	155,000.00	193,302.88	38,302.88
Congestion, FTRs & ARRs								
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-	4,408,391.80	4,408,391.80	-	55,702.56	55,702.56
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-	(2,112,960.93)	(2,112,960.93)	-	(71,266.90)	(71,266.90)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	2,335,854.00	6,044,743.79	3,708,889.79	160,729.00	219,193.53	58,464.53
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	22,606.00	22,606.00	-	-	-
	Auction Revenue Rights Transaction Amount	55500-0058	(291,723.00)	(1,546,462.63)	(1,254,739.63)	(2,724.00)	(72,545.70)	(69,821.70)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(1,171,017.00)	2,011,277.91	3,182,294.91	(11,437.00)	92,311.20	103,748.20
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	132,000.00	44,357.62	(87,642.38)	11,000.00	7,513.13	(3,486.87)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(732,000.00)	(815,482.43)	(83,482.43)	(61,000.00)	(66,690.22)	(5,690.22)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-	(4,444,938.90)	(4,444,938.90)	-	(59,345.01)	(59,345.01)
30	Financial Transmission Rights Monthly Allocation	55500-0033	-	(262,834.29)	(262,834.29)	-	(2,432.92)	(2,432.92)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	(1,734.13)	(1,734.13)	-	(1,734.13)	(1,734.13)
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-	(144,466.28)	(144,466.28)	-	(4,010.17)	(4,010.17)
	FTR Guarantee Uplift Amount	55500-0055	-	97,400.40	97,400.40	-	(37,664.82)	(37,664.82)
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	212,108.87	212,108.87	-	20,995.26	20,995.26
31	Financial Transmission Rights Transaction	55500-0034	-	-	-	-	-	-
	Subtotal		273,114.00	3,512,006.80	3,238,892.80	96,568.00	80,025.81	(16,542.19)
RSG & Make Whole Payments								
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	264,000.00	223,161.54	(40,838.46)	22,000.00	19,522.15	(2,477.85)
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(36,000.00)	(95,796.85)	(59,796.85)	(3,000.00)	(23,639.39)	(20,639.39)
	Real Time Price Volatility Make Whole Payment	55500-0057	(360,000.00)	(28,371.11)	331,628.89	(30,000.00)	(77.53)	29,922.47
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	540,000.00	359,529.11	(180,470.89)	45,000.00	16,283.00	(28,717.00)
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(108,000.00)	(496,499.30)	(388,499.30)	(9,000.00)	(60,039.23)	(51,039.23)
	Subtotal		300,000.00	(37,976.61)	(337,976.61)	25,000.00	(47,951.00)	(72,951.00)
RNU & Misc Charges								
20	Real Time Miscellaneous	55500-0042	671,000.00	180,889.07	(490,110.93)	55,000.00	55,905.07	905.07
21	Real Time Net Inadvertent Distribution	55500-0044	96,000.00	7,837.03	(88,162.97)	8,000.00	(1,618.70)	(9,618.70)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	1,404,000.00	2,517,277.44	1,113,277.44	117,000.00	74,190.26	(42,809.74)
26	Real Time Uninstructed Deviation	55500-0048	-	-	-	-	-	-
	Demand Response Allocation Uplift Amount	55500-0077	-	715.24	715.24	-	-	-
33	Day Ahead Ramp Capability Amount	55500-0079	(24,000.00)	(1,931.59)	22,068.41	(2,000.00)	-	2,000.00
34	Real Time Ramp Capability Amount	55500-0080	-	(155.67)	(155.67)	-	-	-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	-	267,898.43	267,898.43	-	-	-
	Subtotal		2,147,000.00	2,972,529.95	825,529.95	178,000.00	128,476.63	(49,523.37)
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	(300,000.00)	(854,989.21)	(554,989.21)	(25,000.00)	(92,852.74)	(67,852.74)
	Day Ahead Spinning Reserve Amount	55500-0063	(456,000.00)	(472,817.91)	(16,817.91)	(38,000.00)	(43,750.48)	(5,750.48)
	Day Ahead Supplemental Reserve Amount	55500-0064	-	(736.20)	(736.20)	-	(65.53)	(65.53)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	20.89	20.89	-	-	-
	Net Regulation Adjustment Amount	55500-0068	-	6,325.27	6,325.27	-	405.18	405.18
	Real Time Regulation Amount	55500-0070	(24,000.00)	293,724.39	317,724.39	(2,000.00)	41,587.36	43,587.36
	Regulation Reserve Cost Distribution Amount	55500-0071	360,000.00	342,307.29	(17,692.71)	30,000.00	29,557.32	(442.68)
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	156,000.00	268,959.02	112,959.02	13,000.00	28,496.42	15,496.42
	Real Time Spinning Reserve Amount	55500-0072	24,000.00	131,848.25	107,848.25	2,000.00	21,650.92	19,650.92
	Spinning Reserve Cost Distribution Amount	55500-0073	396,000.00	222,993.62	(173,006.38)	33,000.00	17,840.23	(15,359.77)
	Real Time Supplemental Reserve Amount	55500-0074	-	(518.85)	(518.85)	-	(1.06)	(1.06)
	Supplemental Reserve Cost Distribution Amount	55500-0075	132,000.00	38,102.35	(93,897.65)	11,000.00	5,026.42	(5,973.58)
	Subtotal		288,000.00	(24,781.09)	(312,781.09)	24,000.00	7,694.04	(16,305.96)
	Grand Total		13,354,321.00	58,032,741.97	44,678,420.97	1,417,727.00	7,069,125.50	5,651,398.50

MINNESOTA POWER MISO MONTHLY ALLOCATION		Account Number	Feb-20			Mar-20		
			Forecast	Actual	Difference	Forecast	Actual	Difference
Day Ahead and Real Time Energy								
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	5,972,500.04	5,972,500.04	-	5,427,313.43	5,427,313.43
5	Day Ahead Non-Asset Energy	55500-0027	-	(1,153,993.52)	(1,153,993.52)	-	(1,249,395.67)	(1,249,395.67)
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	1,362,311.73	1,362,311.73	-	1,015,928.37	1,015,928.37
	Excessive Energy Amount	55500-0066	-	(888.09)	(888.09)	-	(536.46)	(536.46)
	Non-Excessive Energy Amount	55500-0069	-	317,888.80	317,888.80	-	713,475.48	713,475.48
22	Real Time Non-Asset Energy	55500-0043	-	(660,098.36)	(660,098.36)	-	(356,034.42)	(356,034.42)
	Subtotal		-	5,837,720.60	5,837,720.60	-	5,550,750.72	5,550,750.72
Day Ahead and Real Time Energy Loss								
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	615,830.00	658,564.45	42,734.45	613,285.00	564,396.98	(48,888.02)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	76,547.00	225,680.40	149,133.40	203,666.00	188,111.10	(15,554.90)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-	(79,435.45)	(79,435.45)	-	(35,600.60)	(35,600.60)
14	Real Time Distribution of Losses	55500-0041	(296,000.00)	(246,111.44)	49,888.56	(296,000.00)	(90,764.64)	205,235.36
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-	-	-	-	-	-
	Subtotal		396,377.00	558,697.96	162,320.96	520,951.00	626,142.84	105,191.84
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	140,000.00	138,160.48	(1,839.52)	140,000.00	112,779.79	(27,220.21)
19	Real Time Market Administration (Schedule 17)	55500-0036	11,000.00	12,367.09	1,367.09	11,000.00	13,248.66	2,248.66
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	4,000.00	3,308.23	(691.77)	4,000.00	1,802.87	(2,197.13)
	Subtotal		155,000.00	153,835.80	(1,164.20)	155,000.00	127,831.32	(27,168.68)
Congestion, FTRs & ARRs								
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-	103,781.86	103,781.86	-	50,068.66	50,068.66
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-	(408,218.16)	(408,218.16)	-	(264,790.65)	(264,790.65)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	76,547.00	211,946.10	135,399.10	203,666.00	277,500.13	73,834.13
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	-	-	-	-	-
	Auction Revenue Rights Transaction Amount	55500-0058	(2,724.00)	(72,545.70)	(69,821.70)	(29,929.00)	(78,417.68)	(48,488.68)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(11,437.00)	92,311.20	103,748.20	(139,709.00)	71,696.81	211,405.81
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	11,000.00	7,513.13	(3,486.87)	11,000.00	4,448.05	(6,551.95)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(61,000.00)	(66,690.22)	(5,690.22)	(61,000.00)	(59,942.36)	1,057.64
28	Financial Transmission Rights Hourly Allocation	55500-0032	-	(71,940.62)	(71,940.62)	-	(74,068.60)	(74,068.60)
30	Financial Transmission Rights Monthly Allocation	55500-0033	-	(5,577.35)	(5,577.35)	-	(7,209.82)	(7,209.82)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-	-	-	-	-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-	525.39	525.39	-	2,654.30	2,654.30
	FTR Guarantee Uplift Amount	55500-0055	-	(586.96)	(586.96)	-	(2,651.73)	(2,651.73)
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	7,743.89	7,743.89	-	-	-
31	Financial Transmission Rights Transaction	55500-0034	-	-	-	-	-	-
	Subtotal		12,386.00	(201,737.44)	(214,123.44)	(15,972.00)	(80,712.89)	(64,740.89)
RSG & Make Whole Payments								
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	22,000.00	14,699.16	(7,300.84)	22,000.00	18,650.34	(3,349.66)
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(3,000.00)	5,352.45	8,352.45	(3,000.00)	-	3,000.00
	Real Time Price Volatility Make Whole Payment	55500-0057	(30,000.00)	(222.18)	29,777.82	(30,000.00)	(51.42)	29,948.58
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	45,000.00	15,682.99	(29,317.01)	45,000.00	9,520.29	(35,479.71)
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(9,000.00)	7,609.88	(1,390.12)	(9,000.00)	-	9,000.00
	Subtotal		25,000.00	43,122.30	18,122.30	25,000.00	28,119.21	3,119.21
RNU & Misc Charges								
20	Real Time Miscellaneous	55500-0042	56,000.00	(85.69)	(56,085.69)	56,000.00	(140.89)	(56,140.89)
21	Real Time Net Inadvertent Distribution	55500-0044	8,000.00	7,828.52	(171.48)	8,000.00	52,959.85	44,959.85
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	117,000.00	48,142.89	(68,857.11)	117,000.00	29,047.96	(87,952.04)
26	Real Time Uninstructed Deviation	55500-0048	-	-	-	-	-	-
	Demand Response Allocation Uplift Amount	55500-0077	-	-	-	-	-	-
33	Day Ahead Ramp Capability Amount	55500-0079	(2,000.00)	-	2,000.00	(2,000.00)	-	2,000.00
34	Real Time Ramp Capability Amount	55500-0080	-	-	-	-	-	-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	-	37,932.01	37,932.01	-	50,167.97	50,167.97
	Subtotal		179,000.00	93,817.73	(85,182.27)	179,000.00	132,034.89	(46,965.11)
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	(25,000.00)	(84,691.01)	(59,691.01)	(25,000.00)	(86,929.75)	(61,929.75)
	Day Ahead Spinning Reserve Amount	55500-0063	(38,000.00)	(31,826.74)	6,173.26	(38,000.00)	(53,616.85)	(15,616.85)
	Day Ahead Supplemental Reserve Amount	55500-0064	-	3.68	3.68	-	(19.06)	(19.06)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	-	-	-	-	-
	Net Regulation Adjustment Amount	55500-0068	-	(793.12)	(793.12)	-	1,209.38	1,209.38
	Real Time Regulation Amount	55500-0070	(2,000.00)	28,890.59	30,890.59	(2,000.00)	40,124.46	42,124.46
	Regulation Reserve Cost Distribution Amount	55500-0071	30,000.00	30,603.39	603.39	30,000.00	34,209.68	4,209.68
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	13,000.00	27,798.95	14,798.95	13,000.00	17,755.72	4,755.72
	Real Time Spinning Reserve Amount	55500-0072	2,000.00	(979.99)	(2,979.99)	2,000.00	17,010.29	15,010.29
	Spinning Reserve Cost Distribution Amount	55500-0073	33,000.00	16,841.27	(16,158.73)	33,000.00	18,303.35	(14,696.65)
	Real Time Supplemental Reserve Amount	55500-0074	-	(18.58)	(18.58)	-	12.01	12.01
	Supplemental Reserve Cost Distribution Amount	55500-0075	11,000.00	2,761.91	(8,238.09)	11,000.00	3,196.94	(7,803.06)
	Subtotal		24,000.00	(11,409.65)	(35,409.65)	24,000.00	(8,743.83)	(32,743.83)
	Grand Total		791,763.00	6,474,047.30	5,682,284.30	887,979.00	6,375,422.26	5,487,443.26

MINNESOTA POWER MISO MONTHLY ALLOCATION		Account Number	Apr-20			May-20		
			Forecast	Actual	Difference	Forecast	Actual	Difference
Day Ahead and Real Time Energy								
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	6,568,672.36	6,568,672.36	-	2,983,374.00	2,983,374.00
5	Day Ahead Non-Asset Energy	55500-0027	-	(1,227,761.47)	(1,227,761.47)	-	(2,066,724.40)	(2,066,724.40)
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	569,874.74	569,874.74	-	712,749.39	712,749.39
	Excessive Energy Amount	55500-0066	-	(552.26)	(552.26)	-	(338.42)	(338.42)
	Non-Excessive Energy Amount	55500-0069	-	32,335.27	32,335.27	-	505,451.72	505,451.72
22	Real Time Non-Asset Energy	55500-0043	-	(252,615.71)	(252,615.71)	-	(388,054.83)	(388,054.83)
	Subtotal		-	5,689,952.93	5,689,952.93	-	1,746,457.47	1,746,457.47
Day Ahead and Real Time Energy Loss								
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	266,669.00	310,792.57	44,123.57	79,351.00	215,412.47	136,061.47
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	241,219.00	160,279.45	(80,939.55)	249,669.00	200,418.88	(49,250.12)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-	(8,489.16)	(8,489.16)	-	6,603.59	6,603.59
14	Real Time Distribution of Losses	55500-0041	(296,000.00)	(159,067.19)	136,932.81	(296,000.00)	(74,500.98)	221,499.02
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-	-	-	-	-	-
	Subtotal		211,888.00	303,515.67	91,627.67	33,020.00	347,933.96	314,913.96
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	140,000.00	150,048.52	10,048.52	140,000.00	98,028.53	(41,971.47)
19	Real Time Market Administration (Schedule 17)	55500-0036	11,000.00	13,447.07	2,447.07	11,000.00	11,841.13	841.13
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	4,000.00	1,616.28	(2,383.72)	4,000.00	1,302.31	(2,697.69)
	Subtotal		155,000.00	165,111.87	10,111.87	155,000.00	111,171.97	(43,828.03)
Congestion, FTRs & ARRs								
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-	43,478.79	43,478.79	-	(65,038.03)	(65,038.03)
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-	(128,799.77)	(128,799.77)	-	(303,180.22)	(303,180.22)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	241,219.00	302,134.28	60,915.28	249,669.00	378,110.61	128,441.61
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	-	-	-	-	-
	Auction Revenue Rights Transaction Amount	55500-0058	(29,929.00)	(78,417.68)	(48,488.68)	(29,929.00)	(78,417.68)	(48,488.68)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(139,709.00)	71,696.81	211,405.81	(139,709.00)	71,696.81	211,405.81
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	11,000.00	4,448.05	(6,551.95)	11,000.00	4,448.05	(6,551.95)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(61,000.00)	(59,942.36)	1,057.64	(61,000.00)	(59,942.41)	1,057.59
28	Financial Transmission Rights Hourly Allocation	55500-0032	-	(111,799.26)	(111,799.26)	-	(101,393.96)	(101,393.96)
30	Financial Transmission Rights Monthly Allocation	55500-0033	-	(3,480.86)	(3,480.86)	-	(9,458.70)	(9,458.70)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-	-	-	-	-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-	(8,926.51)	(8,926.51)	-	1,079.84	1,079.84
	FTR Guarantee Uplift Amount	55500-0055	-	8,926.51	8,926.51	-	(1,414.59)	(1,414.59)
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	17,556.18	17,556.18	-	-	-
31	Financial Transmission Rights Transaction	55500-0034	-	-	-	-	-	-
	Subtotal		21,581.00	56,874.18	35,293.18	30,031.00	(163,510.29)	(193,541.29)
RSG & Make Whole Payments								
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	22,000.00	15,996.18	(6,003.82)	22,000.00	9,382.15	(12,617.85)
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(3,000.00)	-	3,000.00	(3,000.00)	-	3,000.00
	Real Time Price Volatility Make Whole Payment	55500-0057	(30,000.00)	(593.55)	29,406.45	(30,000.00)	(110.82)	29,889.18
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	45,000.00	13,773.02	(31,226.98)	45,000.00	10,090.24	(34,909.76)
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(9,000.00)	-	9,000.00	(9,000.00)	-	9,000.00
	Subtotal		25,000.00	29,175.65	4,175.65	25,000.00	19,361.57	(5,638.43)
RNU & Misc Charges								
20	Real Time Miscellaneous	55500-0042	56,000.00	(21,108.70)	(77,108.70)	56,000.00	-	(56,000.00)
21	Real Time Net Inadvertent Distribution	55500-0044	8,000.00	(29,558.79)	(37,558.79)	8,000.00	(20,052.23)	(28,052.23)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	117,000.00	148,883.42	31,883.42	117,000.00	152,495.90	35,495.90
26	Real Time Uninstructed Deviation	55500-0048	-	-	-	-	-	-
	Demand Response Allocation Uplift Amount	55500-0077	-	-	-	-	-	-
33	Day Ahead Ramp Capability Amount	55500-0079	(2,000.00)	(80.16)	1,919.84	(2,000.00)	(47.93)	1,952.07
34	Real Time Ramp Capability Amount	55500-0080	-	38.00	38.00	-	(136.85)	(136.85)
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	-	57,911.70	57,911.70	-	20,644.02	20,644.02
	Subtotal		179,000.00	156,085.47	(22,914.53)	179,000.00	152,902.91	(26,097.09)
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	(25,000.00)	(34,588.66)	(9,588.66)	(25,000.00)	(35,802.20)	(10,802.20)
	Day Ahead Spinning Reserve Amount	55500-0063	(38,000.00)	(12,947.64)	25,052.36	(38,000.00)	(22,093.70)	15,906.30
	Day Ahead Supplemental Reserve Amount	55500-0064	-	1.80	1.80	-	-	-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	-	-	-	-	-
	Net Regulation Adjustment Amount	55500-0068	-	(1,766.81)	(1,766.81)	-	64.85	64.85
	Real Time Regulation Amount	55500-0070	(2,000.00)	20,610.49	22,610.49	(2,000.00)	12,469.68	14,469.68
	Regulation Reserve Cost Distribution Amount	55500-0071	30,000.00	32,172.81	2,172.81	30,000.00	24,425.89	(5,574.11)
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	13,000.00	8,104.50	(4,895.50)	13,000.00	8,620.84	(4,379.16)
	Real Time Spinning Reserve Amount	55500-0072	2,000.00	7,615.31	5,615.31	2,000.00	(1,913.80)	(3,913.80)
	Spinning Reserve Cost Distribution Amount	55500-0073	33,000.00	20,271.27	(12,728.73)	33,000.00	18,915.73	(14,084.27)
	Real Time Supplemental Reserve Amount	55500-0074	-	(2.86)	(2.86)	-	(1.29)	(1.29)
	Supplemental Reserve Cost Distribution Amount	55500-0075	11,000.00	2,883.00	(8,117.00)	11,000.00	2,096.68	(8,903.32)
	Subtotal		24,000.00	42,353.21	18,353.21	24,000.00	6,782.68	(17,217.32)
	Grand Total		616,469.00	6,443,068.98	5,826,599.98	446,051.00	2,221,100.27	1,775,049.27

MINNESOTA POWER MISO MONTHLY ALLOCATION		Account Number	Jun-20			Jul-20		
			Forecast	Actual	Difference	Forecast	Actual	Difference
Day Ahead and Real Time Energy								
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	3,853,505.99	3,853,505.99	-	5,065,384.54	5,065,384.54
5	Day Ahead Non-Asset Energy	55500-0027	-	(4,799,496.04)	(4,799,496.04)	-	(4,990,627.96)	(4,990,627.96)
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	722,381.56	722,381.56	-	216,055.23	216,055.23
	Excessive Energy Amount	55500-0066	-	1,724.25	1,724.25	-	11,826.30	11,826.30
	Non-Excessive Energy Amount	55500-0069	-	338,985.53	338,985.53	-	316,799.32	316,799.32
22	Real Time Non-Asset Energy	55500-0043	-	(233,483.88)	(233,483.88)	-	102,338.08	102,338.08
	Subtotal		-	(116,382.59)	(116,382.59)	-	721,775.51	721,775.51
Day Ahead and Real Time Energy Loss								
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	877,297.00	737,699.12	(139,597.88)	1,267,580.00	769,603.23	(497,976.77)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	206,719.00	271,328.50	64,609.50	189,145.00	627,104.06	437,959.06
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-	26,405.00	26,405.00	-	43,395.55	43,395.55
14	Real Time Distribution of Losses	55500-0041	(296,000.00)	(98,450.08)	197,549.92	(296,000.00)	(100,722.74)	195,277.26
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-	5,213.00	5,213.00	-	-	-
	Subtotal		788,016.00	942,195.54	154,179.54	1,160,725.00	1,339,380.10	178,655.10
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	140,000.00	131,936.81	(8,063.19)	140,000.00	118,677.22	(21,322.78)
19	Real Time Market Administration (Schedule 17)	55500-0036	11,000.00	14,586.53	3,586.53	11,000.00	13,765.37	2,765.37
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	4,000.00	4,214.41	214.41	4,000.00	4,737.03	737.03
	Subtotal		155,000.00	150,737.75	(4,262.25)	155,000.00	137,179.62	(17,820.38)
Congestion, FTRs & ARRs								
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-	(292,022.45)	(292,022.45)	-	1,018,841.02	1,018,841.02
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-	(117,885.57)	(117,885.57)	-	133,619.17	133,619.17
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	206,719.00	641,878.60	435,159.60	189,145.00	726,410.00	537,265.00
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	9,640.00	9,640.00	-	-	-
	Auction Revenue Rights Transaction Amount	55500-0058	(34,515.00)	(194,393.94)	(159,878.94)	(34,515.00)	(194,393.94)	(159,878.94)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(149,992.00)	234,634.98	384,626.98	(149,992.00)	234,634.98	384,626.98
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	11,000.00	1,816.12	(9,183.88)	11,000.00	1,816.12	(9,183.88)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(61,000.00)	(72,633.28)	(11,633.28)	(61,000.00)	(72,349.88)	(11,349.88)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-	(366,800.78)	(366,800.78)	-	(807,425.50)	(807,425.50)
30	Financial Transmission Rights Monthly Allocation	55500-0033	-	(5,452.63)	(5,452.63)	-	(13,633.68)	(13,633.68)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-	-	-	-	-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-	(18,543.98)	(18,543.98)	-	(26,697.61)	(26,697.61)
	FTR Guarantee Uplift Amount	55500-0055	-	18,792.51	18,792.51	-	24,978.66	24,978.66
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	-	-	-	56,537.35	56,537.35
31	Financial Transmission Rights Transaction	55500-0034	-	-	-	-	-	-
	Subtotal		(27,788.00)	(160,970.42)	(133,182.42)	(45,362.00)	1,082,336.69	1,127,698.69
RSG & Make Whole Payments								
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	22,000.00	7,480.69	(14,519.31)	22,000.00	11,057.90	(10,942.10)
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(3,000.00)	(1,745.05)	1,254.95	(3,000.00)	(38,797.54)	(35,797.54)
	Real Time Price Volatility Make Whole Payment	55500-0057	(30,000.00)	(810.39)	29,189.61	(30,000.00)	(3,096.88)	26,903.12
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	45,000.00	16,453.43	(28,546.57)	45,000.00	64,509.69	19,509.69
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(9,000.00)	-	9,000.00	(9,000.00)	(449,735.08)	(440,735.08)
	Subtotal		25,000.00	21,378.68	(3,621.32)	25,000.00	(416,061.91)	(441,061.91)
RNU & Misc Charges								
20	Real Time Miscellaneous	55500-0042	56,000.00	9,639.34	(46,360.66)	56,000.00	141,259.96	85,259.96
21	Real Time Net Inadvertent Distribution	55500-0044	8,000.00	7,860.51	(139.49)	8,000.00	71,162.65	63,162.65
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	117,000.00	(43.82)	(117,043.82)	117,000.00	27,111.29	(89,888.71)
26	Real Time Uninstructed Deviation	55500-0048	-	-	-	-	-	-
	Demand Response Allocation Uplift Amount	55500-0077	-	-	-	-	-	-
33	Day Ahead Ramp Capability Amount	55500-0079	(2,000.00)	(699.06)	1,300.94	(2,000.00)	(622.24)	1,377.76
34	Real Time Ramp Capability Amount	55500-0080	-	(9.64)	(9.64)	-	(36.47)	(36.47)
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	-	19,618.67	19,618.67	-	16,749.40	16,749.40
	Subtotal		179,000.00	36,366.00	(142,634.00)	179,000.00	255,624.59	76,624.59
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	(25,000.00)	(36,912.06)	(11,912.06)	(25,000.00)	(67,125.35)	(42,125.35)
	Day Ahead Spinning Reserve Amount	55500-0063	(38,000.00)	(51,487.95)	(13,487.95)	(38,000.00)	(50,396.97)	(12,396.97)
	Day Ahead Supplemental Reserve Amount	55500-0064	-	(67.24)	(67.24)	-	(12.29)	(12.29)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	192.10	192.10	-	-	-
	Net Regulation Adjustment Amount	55500-0068	-	490.64	490.64	-	1,882.68	1,882.68
	Real Time Regulation Amount	55500-0070	(2,000.00)	13,582.04	15,582.04	(2,000.00)	20,604.20	22,604.20
	Regulation Reserve Cost Distribution Amount	55500-0071	30,000.00	18,854.26	(11,145.74)	30,000.00	20,531.88	(9,468.12)
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	13,000.00	9,029.47	(3,970.53)	13,000.00	16,777.16	3,777.16
	Real Time Spinning Reserve Amount	55500-0072	2,000.00	6,176.13	4,176.13	2,000.00	(1,041.45)	(3,041.45)
	Spinning Reserve Cost Distribution Amount	55500-0073	33,000.00	13,664.43	(19,335.57)	33,000.00	16,684.74	(16,314.26)
	Real Time Supplemental Reserve Amount	55500-0074	-	(14.73)	(14.73)	-	(568.85)	(568.85)
	Supplemental Reserve Cost Distribution Amount	55500-0075	11,000.00	1,904.82	(9,095.18)	11,000.00	1,653.99	(9,346.01)
	Subtotal		24,000.00	(24,588.09)	(48,588.09)	24,000.00	(41,009.26)	(65,009.26)
Grand Total			1,143,228.00	848,736.87	(294,491.13)	1,498,363.00	3,079,225.34	1,580,862.34

MINNESOTA POWER		Account Number	Aug-20			Sep-20		
MISO MONTHLY ALLOCATION			Forecast	Actual	Difference	Forecast	Actual	Difference
Day Ahead and Real Time Energy								
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	6,584,901.64	6,584,901.64	-	6,582,400.76	6,582,400.76
5	Day Ahead Non-Asset Energy	55500-0027	-	(4,876,699.79)	(4,876,699.79)	-	(4,471,391.84)	(4,471,391.84)
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	981,752.40	981,752.40	-	324,873.58	324,873.58
	Excessive Energy Amount	55500-0066	-	(775.23)	(775.23)	-	2,260.89	2,260.89
	Non-Excessive Energy Amount	55500-0069	-	232,924.36	232,924.36	-	54,726.74	54,726.74
22	Real Time Non-Asset Energy	55500-0043	-	(689,876.40)	(689,876.40)	-	(157,862.09)	(157,862.09)
	Subtotal		-	2,232,226.98	2,232,226.98	-	2,335,008.04	2,335,008.04
Day Ahead and Real Time Energy Loss								
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,282,912.00	690,675.92	(592,236.08)	545,349.00	581,077.98	35,728.98
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	164,579.00	367,574.47	202,995.47	307,531.00	577,818.82	270,287.82
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-	(26,477.42)	(26,477.42)	-	23,143.96	23,143.96
14	Real Time Distribution of Losses	55500-0041	(296,000.00)	(135,074.62)	160,925.38	(296,000.00)	(159,475.16)	136,524.84
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-	-	-	-	-	-
	Subtotal		1,151,491.00	896,698.35	(254,792.65)	556,880.00	1,022,565.60	465,685.60
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	140,000.00	125,270.20	(14,729.80)	140,000.00	131,352.89	(8,647.11)
19	Real Time Market Administration (Schedule 17)	55500-0036	11,000.00	10,890.45	(109.55)	11,000.00	13,135.54	2,135.54
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	4,000.00	4,311.44	311.44	4,000.00	5,034.61	1,034.61
	Subtotal		155,000.00	140,472.09	(14,527.91)	155,000.00	149,523.04	(5,476.96)
Congestion, FTRs & ARRs								
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-	1,396,496.76	1,396,496.76	-	272,725.97	272,725.97
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-	(471,481.75)	(471,481.75)	-	(102,552.47)	(102,552.47)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	164,579.00	409,752.63	245,173.63	307,531.00	949,660.04	642,129.04
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	-	-	-	-	-
	Auction Revenue Rights Transaction Amount	55500-0058	(34,515.00)	(194,393.94)	(159,878.94)	(30,073.00)	(175,010.33)	(144,937.33)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(149,992.00)	234,634.98	384,626.98	(89,201.00)	280,940.87	370,141.87
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	11,000.00	1,811.36	(9,188.64)	11,000.00	2,541.61	(8,458.39)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(61,000.00)	(72,066.43)	(11,066.43)	(61,000.00)	(72,508.66)	(11,508.66)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-	(1,294,518.51)	(1,294,518.51)	-	(458,792.02)	(458,792.02)
30	Financial Transmission Rights Monthly Allocation	55500-0033	-	(40,185.77)	(40,185.77)	-	(126,559.88)	(126,559.88)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-	-	-	-	-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-	(83,817.69)	(83,817.69)	-	61,956.48	61,956.48
	FTR Guarantee Uplift Amount	55500-0055	-	83,817.99	83,817.99	-	(61,956.46)	(61,956.46)
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	39,115.56	39,115.56	-	38,208.25	38,208.25
31	Financial Transmission Rights Transaction	55500-0034	-	-	-	-	-	-
	Subtotal		(69,928.00)	9,165.19	79,093.19	138,257.00	608,653.40	470,396.40
RSG & Make Whole Payments								
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	22,000.00	13,590.70	(8,409.30)	22,000.00	29,204.96	7,204.96
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(3,000.00)	(12,861.32)	(9,861.32)	(3,000.00)	(21,971.83)	(18,971.83)
	Real Time Price Volatility Make Whole Payment	55500-0067	(30,000.00)	(1,757.60)	(28,242.40)	(30,000.00)	(72,562.39)	(42,562.39)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	45,000.00	33,881.74	(11,118.26)	45,000.00	25,809.79	(19,190.21)
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(9,000.00)	42,818.60	51,818.60	(9,000.00)	(33,960.20)	(24,960.20)
	Subtotal		25,000.00	75,672.12	50,672.12	25,000.00	(2,479.67)	(27,479.67)
RNU & Misc Charges								
20	Real Time Miscellaneous	55500-0042	56,000.00	552.64	(55,447.36)	56,000.00	(3,805.09)	(59,805.09)
21	Real Time Net Inadvertent Distribution	55500-0044	8,000.00	19,583.66	11,583.66	8,000.00	(65,564.02)	(73,564.02)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	117,000.00	43,407.36	(73,592.64)	117,000.00	1,409,705.86	1,292,705.86
26	Real Time Uninstructed Deviation	55500-0048	-	-	-	-	-	-
	Demand Response Allocation Uplift Amount	55500-0077	-	-	-	-	247.14	247.14
33	Day Ahead Ramp Capability Amount	55500-0079	(2,000.00)	(184.79)	1,815.21	(2,000.00)	(186.29)	1,813.71
34	Real Time Ramp Capability Amount	55500-0080	-	(35.09)	(35.09)	-	2.89	2.89
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	-	11,601.15	11,601.15	-	12,894.77	12,894.77
	Subtotal		179,000.00	74,924.93	(104,075.07)	179,000.00	1,353,295.26	1,174,295.26
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	(25,000.00)	(79,146.57)	(54,146.57)	(25,000.00)	(56,568.75)	(31,568.75)
	Day Ahead Spinning Reserve Amount	55500-0063	(38,000.00)	(62,776.54)	(24,776.54)	(38,000.00)	(26,868.52)	(11,131.48)
	Day Ahead Supplemental Reserve Amount	55500-0064	-	(10.50)	(10.50)	-	(372.44)	(372.44)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	9.20	9.20	-	-	-
	Net Regulation Adjustment Amount	55500-0068	-	1,286.16	1,286.16	-	655.46	655.46
	Real Time Regulation Amount	55500-0070	(2,000.00)	21,118.80	23,118.80	(2,000.00)	16,709.76	18,709.76
	Regulation Reserve Cost Distribution Amount	55500-0071	30,000.00	25,607.26	(4,392.74)	30,000.00	27,152.18	(2,847.82)
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	13,000.00	27,443.92	14,443.92	13,000.00	20,475.42	7,475.42
	Real Time Spinning Reserve Amount	55500-0072	2,000.00	19,749.97	17,749.97	2,000.00	20,475.26	12,075.26
	Spinning Reserve Cost Distribution Amount	55500-0073	33,000.00	20,905.39	(12,094.61)	33,000.00	14,421.46	(18,578.54)
	Real Time Supplemental Reserve Amount	55500-0074	-	36.46	36.46	-	237.84	237.84
	Supplemental Reserve Cost Distribution Amount	55500-0075	11,000.00	3,365.50	(7,634.50)	11,000.00	3,016.55	(7,983.45)
	Subtotal		24,000.00	(22,410.95)	(46,410.95)	24,000.00	12,934.22	(11,065.78)
	Grand Total		1,464,563.00	3,406,748.71	1,942,185.71	1,078,137.00	5,479,499.89	4,401,362.89

MINNESOTA POWER		Account Number	Oct-20			Nov-20		
MISO MONTHLY ALLOCATION			Forecast	Actual	Difference	Forecast	Actual	Difference
Day Ahead and Real Time Energy								
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	8,154,964.90	8,154,964.90	-	6,855,351.95	6,855,351.95
5	Day Ahead Non-Asset Energy	55500-0027	-	(4,648,922.08)	(4,648,922.08)	-	(4,226,760.83)	(4,226,760.83)
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	236,897.42	236,897.42	-	590,940.59	590,940.59
	Excessive Energy Amount	55500-0066	-	274.98	274.98	-	(135.51)	(135.51)
	Non-Excessive Energy Amount	55500-0069	-	230,525.31	230,525.31	-	415,855.66	415,855.66
22	Real Time Non-Asset Energy	55500-0043	-	(181,823.53)	(181,823.53)	-	(372,329.60)	(372,329.60)
	Subtotal		-	3,791,917.00	3,791,917.00	-	3,262,922.26	3,262,922.26
Day Ahead and Real Time Energy Loss								
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	670,452.00	780,689.97	110,237.97	1,141,793.00	821,995.09	(319,797.91)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	225,687.00	402,407.89	176,720.89	140,088.00	324,231.88	184,143.88
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-	32,844.16	32,844.16	-	36,734.98	36,734.98
14	Real Time Distribution of Losses	55500-0041	(296,000.00)	(263,532.88)	32,467.12	(296,000.00)	(271,887.78)	24,112.22
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-	2,236.52	2,236.52	-	(505.02)	(505.02)
	Subtotal		600,139.00	954,645.66	354,506.66	985,881.00	910,569.15	(75,311.85)
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	140,000.00	162,740.85	22,740.85	140,000.00	154,788.89	14,788.89
19	Real Time Market Administration (Schedule 17)	55500-0036	11,000.00	21,878.49	10,878.49	11,000.00	22,237.44	11,237.44
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	4,000.00	3,527.58	(472.42)	4,000.00	3,570.21	(429.79)
	Subtotal		155,000.00	188,146.92	33,146.92	155,000.00	180,596.54	25,596.54
Congestion, FTRs & ARRs								
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-	882,621.21	882,621.21	-	36,425.72	36,425.72
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-	8,737.07	8,737.07	-	(129,544.38)	(129,544.38)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	225,687.00	755,998.94	530,311.94	140,088.00	1,184,693.60	1,044,605.60
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	16,747.75	16,747.75	-	(3,781.75)	(3,781.75)
	Auction Revenue Rights Transaction Amount	55500-0058	(30,073.00)	(175,010.33)	(144,937.33)	(30,073.00)	(175,010.33)	(144,937.33)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(89,201.00)	280,940.87	370,141.87	(89,201.00)	280,940.87	370,141.87
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	11,000.00	2,543.99	(8,456.01)	11,000.00	2,543.99	(8,456.01)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(61,000.00)	(72,508.66)	(11,508.66)	(61,000.00)	(72,508.66)	(11,508.66)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-	(684,756.37)	(684,756.37)	-	(245,572.19)	(245,572.19)
30	Financial Transmission Rights Monthly Allocation	55500-0033	-	(15,428.71)	(15,428.71)	-	(20,579.53)	(20,579.53)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-	-	-	-	-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-	(35,034.05)	(35,034.05)	-	(2,323.11)	(2,323.11)
	FTR Guarantee Uplift Amount	55500-0055	-	35,516.63	35,516.63	-	333.47	333.47
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	-	-	-	31,952.38	31,952.38
31	Financial Transmission Rights Transaction	55500-0034	-	-	-	-	-	-
	Subtotal		56,413.00	1,000,368.34	943,955.34	(29,186.00)	887,570.08	916,756.08
RSG & Make Whole Payments								
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	22,000.00	23,650.79	1,650.79	22,000.00	29,012.10	7,012.10
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(3,000.00)	(135.66)	2,864.34	(3,000.00)	-	3,000.00
	Real Time Price Volatility Make Whole Payment	55500-0057	(30,000.00)	(2,282.67)	27,717.33	(30,000.00)	(470.03)	29,529.97
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	45,000.00	35,510.64	(9,489.36)	45,000.00	75,381.99	30,381.99
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(9,000.00)	-	9,000.00	(9,000.00)	-	9,000.00
	Subtotal		25,000.00	56,743.10	31,743.10	25,000.00	103,924.06	78,924.06
RNU & Misc Charges								
20	Real Time Miscellaneous	55500-0042	56,000.00	(3,344.64)	(59,344.64)	56,000.00	1,459.38	(54,540.62)
21	Real Time Net Inadvertent Distribution	55500-0044	8,000.00	(28,209.61)	(36,209.61)	8,000.00	(3,669.89)	(11,669.89)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	117,000.00	220,957.23	103,957.23	117,000.00	154,504.35	37,504.35
26	Real Time Uninstructed Deviation	55500-0048	-	-	-	-	-	-
	Demand Response Allocation Uplift Amount	55500-0077	-	10.41	10.41	-	(68.47)	(68.47)
33	Day Ahead Ramp Capability Amount	55500-0079	(2,000.00)	(81.74)	1,918.26	(2,000.00)	(12.50)	1,987.50
34	Real Time Ramp Capability Amount	55500-0080	-	44.34	44.34	-	(4.01)	(4.01)
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	-	14,269.26	14,269.26	-	14,433.53	14,433.53
	Subtotal		179,000.00	203,645.25	24,645.25	179,000.00	166,642.39	(12,357.61)
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	(25,000.00)	(86,358.89)	(61,358.89)	(25,000.00)	(88,482.37)	(63,482.37)
	Day Ahead Spinning Reserve Amount	55500-0063	(38,000.00)	(39,713.11)	(1,713.11)	(38,000.00)	(23,857.71)	14,142.29
	Day Ahead Supplemental Reserve Amount	55500-0064	-	(135.83)	(135.83)	-	(88.01)	(88.01)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	(192.10)	(192.10)	-	11.69	11.69
	Net Regulation Adjustment Amount	55500-0068	-	(356.78)	(356.78)	-	(36.13)	(36.13)
	Real Time Regulation Amount	55500-0070	(2,000.00)	40,531.61	42,531.61	(2,000.00)	11,343.70	13,343.70
	Regulation Reserve Cost Distribution Amount	55500-0071	30,000.00	33,399.37	3,399.37	30,000.00	34,808.53	4,808.53
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	13,000.00	24,921.83	11,921.83	13,000.00	39,738.62	26,738.62
	Real Time Spinning Reserve Amount	55500-0072	2,000.00	22,614.44	20,614.44	2,000.00	2,706.40	706.40
	Spinning Reserve Cost Distribution Amount	55500-0073	33,000.00	22,934.19	(10,065.81)	33,000.00	19,793.88	(13,206.12)
	Real Time Supplemental Reserve Amount	55500-0074	-	6.63	6.63	-	(130.84)	(130.84)
	Supplemental Reserve Cost Distribution Amount	55500-0075	11,000.00	6,437.65	(4,562.35)	11,000.00	2,448.12	(8,551.88)
	Subtotal		24,000.00	24,089.01	89.01	24,000.00	(1,744.12)	(25,744.12)
Grand Total			1,039,552.00	6,219,555.28	5,180,003.28	1,339,695.00	5,510,480.36	4,170,785.36

MINNESOTA POWER MISO MONTHLY ALLOCATION		Account Number	Dec-20		
			Forecast	Actual	Difference
Day Ahead and Real Time Energy					
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	7,033,964.07	7,033,964.07
5	Day Ahead Non-Asset Energy	55500-0027	-	(4,570,232.41)	(4,570,232.41)
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	-	736,287.19	736,287.19
	Excessive Energy Amount	55500-0066	-	646.01	646.01
	Non-Excessive Energy Amount	55500-0069	-	25,198.14	25,198.14
22	Real Time Non-Asset Energy	55500-0043	-	(437,826.63)	(437,826.63)
	Subtotal		-	2,788,036.37	2,788,036.37
Day Ahead and Real Time Energy Loss					
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,267,405.00	1,130,863.43	(136,541.57)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	170,275.00	358,731.51	188,456.51
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	-	47,108.80	47,108.80
14	Real Time Distribution of Losses	55500-0041	(296,000.00)	(279,157.53)	16,842.47
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-	-	-
	Subtotal		1,141,680.00	1,257,546.21	115,866.21
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	140,000.00	180,764.67	40,764.67
19	Real Time Market Administration (Schedule 17)	55500-0036	11,000.00	21,158.76	10,158.76
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	4,000.00	3,276.24	(723.76)
	Subtotal		155,000.00	205,199.67	50,199.67
Congestion, FTRs & ARRs					
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	-	905,309.74	905,309.74
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	-	(257,597.31)	(257,597.31)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	170,275.00	(12,534.67)	(182,809.67)
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	-	-
	Auction Revenue Rights Transaction Amount	55500-0058	(2,724.00)	(57,905.38)	(55,181.38)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	(11,437.00)	64,837.53	76,274.53
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	11,000.00	2,914.02	(8,085.98)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(61,000.00)	(67,699.29)	(6,699.29)
28	Financial Transmission Rights Hourly Allocation	55500-0032	-	(168,526.08)	(168,526.08)
30	Financial Transmission Rights Monthly Allocation	55500-0033	-	(12,834.44)	(12,834.44)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-	-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	-	(31,329.17)	(31,329.17)
	FTR Guarantee Uplift Amount	55500-0055	-	29,309.19	29,309.19
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	-	-
31	Financial Transmission Rights Transaction	55500-0034	-	-	-
	Subtotal		106,114.00	393,944.14	287,830.14
RSG & Make Whole Payments					
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	22,000.00	30,914.42	8,914.42
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(3,000.00)	(1,998.51)	1,001.49
	Real Time Price Volatility Make Whole Payment	55500-0057	(30,000.00)	(17,335.65)	12,664.35
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	45,000.00	42,632.29	(2,367.71)
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(9,000.00)	(3,193.27)	5,806.73
	Subtotal		25,000.00	51,019.28	26,019.28
RNU & Misc Charges					
20	Real Time Miscellaneous	55500-0042	56,000.00	557.69	(55,442.31)
21	Real Time Net Inadvertent Distribution	55500-0044	8,000.00	(2,884.92)	(10,884.92)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	117,000.00	208,874.74	91,874.74
26	Real Time Uninstructed Deviation	55500-0048	-	-	-
	Demand Response Allocation Uplift Amount	55500-0077	-	526.16	526.16
33	Day Ahead Ramp Capability Amount	55500-0079	(2,000.00)	(16.88)	1,983.12
34	Real Time Ramp Capability Amount	55500-0080	-	(18.84)	(18.84)
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	-	11,675.95	11,675.95
	Subtotal		179,000.00	218,713.90	39,713.90
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	(25,000.00)	(105,530.86)	(80,530.86)
	Day Ahead Spinning Reserve Amount	55500-0063	(38,000.00)	(53,481.70)	(15,481.70)
	Day Ahead Supplemental Reserve Amount	55500-0064	-	29.22	29.22
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	-	-
	Net Regulation Adjustment Amount	55500-0068	-	3,283.76	3,283.76
	Real Time Regulation Amount	55500-0070	(2,000.00)	26,151.70	28,151.70
	Regulation Reserve Cost Distribution Amount	55500-0071	30,000.00	30,984.72	984.72
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	13,000.00	39,796.17	26,796.17
	Real Time Spinning Reserve Amount	55500-0072	2,000.00	24,184.77	22,184.77
	Spinning Reserve Cost Distribution Amount	55500-0073	33,000.00	22,616.68	(10,383.32)
	Real Time Supplemental Reserve Amount	55500-0074	-	(73.58)	(73.58)
	Supplemental Reserve Cost Distribution Amount	55500-0075	11,000.00	3,310.77	(7,689.23)
	Subtotal		24,000.00	(8,728.35)	(32,728.35)
	Grand Total		1,630,794.00	4,905,731.21	3,274,937.21

MINNESOTA POWER
MISO MONTHLY ALLOCATION
Table with columns for Account Number, January 2020, FPE Retail (Mwh, Cost, Mwh, Revenue), FAC Resale (Mwh, Cost, Mwh, Revenue), and Subtotal FPE and FAC (Cost/Revenue).

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 (RT) which are then shown in the Day Ahead Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation.

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Account	Number	January 2020	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	5,253,057.79 (1,300,797.01)												
Day Ahead Non-Asset Energy	55500-0027													
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	1,388,384.84												
Excessive Energy Amount	55500-0066	(389.65)												
Non-Excessive Energy Amount	55500-0069	796,108.18												
Real Time Non-Asset Energy	55500-0043	(180,487.09)												
Subtotal		5,945,877.05	1,474				15,191				37,200			
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	826,708.51 256,022.43		1,081.76										
Day Ahead Financial Bilateral Transaction Loss	55500-0022			345.17										
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(49,030.04)				(64.16)								
Real Time Distribution of Losses	55500-0041	(272,000.82)				(366.71)								
Real Time Financial Bilateral Transaction Loss	55500-0038													
Subtotal		761,700.08	1,474	1,426.92	1,474	(430.87)	15,191		15,191		37,200		37,200	
Virtual Energy														
Day Ahead Virtual Energy	55500-0030													
Real Time Virtual Energy	55500-0049													
Subtotal			1,474		1,474		15,191		15,191		37,200		37,200	
Schedule 16 & 17 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020	171,036.96		230.59										
Real Time Market Administration (Schedule 17)	55500-0036	18,474.02		24.91										
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,791.90		5.11										
Subtotal		193,302.88	1,474	260.61	1,474		15,191		15,191		37,200		37,200	
Congestion, FTRs & ARR														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	55,702.56		72.89										
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(71,266.90)				(93.25)								
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	219,193.53		295.52										
Real Time Financial Bilateral Transaction Congestion	55500-0037													
Auction Revenue Rights Transaction Amount	55500-0058	(72,545.70)				(97.81)								
Financial Transmission Rights Annual Transaction Amount	55500-0059	92,311.20		124.45										
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	7,513.13		10.13										
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(66,690.22)				(89.91)								
Financial Transmission Rights Hourly Allocation	55500-0032	(59,345.01)				(80.01)								
Financial Transmission Rights Monthly Allocation	55500-0033	(2,432.92)				(3.28)								
Financial Transmission Rights Yearly Allocation	55500-0035	(1,734.13)				(2.34)								
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(4,010.17)				(5.41)								
FTR Guarantee Uplift Amount	55500-0055	(37,664.82)				(50.78)								
Financial Transmission Rights Monthly Transaction Amount	55500-0056	20,995.26		28.31										
Financial Transmission Rights Transaction	55500-0034													
Subtotal		80,025.81	1,474	531.29	1,474	(422.78)	15,191		15,191		37,200		37,200	
RS&G & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	19,522.15		26.32										
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(23,639.39)				(31.87)								
Real Time Price Volatility Make Whole Payment	55500-0057	(77.53)				(0.10)								
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	16,283.00		21.95										
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(60,039.23)				(80.94)								
Subtotal		(47,951.00)	1,474	48.27	1,474	(112.92)	15,191		15,191		37,200		37,200	
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042	55,905.07		75.37										
Real Time Net Inadvertent Distribution	55500-0044	(1,618.70)				(2.18)								
Real Time Revenue Neutrality Uplift Amount	55500-0045	74,190.26		100.02										
Real Time Uninstructed Deviation	55500-0048													
Demand Response Allocation Uplift Amount	55500-0077													
Day Ahead Ramp Capability Amount	55500-0079													
Real Time Ramp Capability Amount	55500-0080													
Real Time Schedule 49 Cost Distribution Amount	55500-0081													
Subtotal		128,476.63	1,474	175.39	1,474	(2.18)	15,191		15,191		37,200		37,200	
Grandfathered Charge Types														
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023													
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024													
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025													
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026													
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040													
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039													
Subtotal			1,474		1,474		15,191		15,191		37,200		37,200	
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062	(92,852.74)				(125.18)								
Day Ahead Spinning Reserve Amount	55500-0063	(43,750.48)				(58.98)								
Day Ahead Supplemental Reserve Amount	55500-0064	(65.53)				(0.09)								
Contingency Reserve Deployment Failure Charge Amount	55500-0065													
Net Regulation Adjustment Amount	55500-0068	405.18		0.55										
Real Time Regulation Amount	55500-0070	41,587.36		56.07										
Regulation Reserve Cost Distribution Amount	55500-0071	29,557.32		39.85										
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	28,496.42		38.42										
Real Time Spinning Reserve Amount	55500-0072	21,850.92		29.19										
Spinning Reserve Cost Distribution Amount	55500-0073	17,640.23		23.78										
Real Time Supplemental Reserve Amount	55500-0074	(1.06)				(0.00)								
Supplemental Reserve Cost Distribution Amount	55500-0075	5,026.42		6.78										
Subtotal		7,694.04	1,474	194.63	1,474	(184.26)	15,191		15,191		37,200		37,200	
Grand Total		7,069,125.50	1,474	2,637.12	1,474	(1,153.01)	15,191		15,191		37,200		37,200	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	January 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	5,253,057.79 (1,300,797.01)								
Day Ahead Non-Asset Energy	55500-0027									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	1,388,384.84								
Excessive Energy Amount	55500-0066	(389.65)								
Non-Excessive Energy Amount	55500-0069	796,108.18								
Real Time Non-Asset Energy	55500-0043	(180,487.09)								
Subtotal		5,945,877.05	71,211					235,729		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	826,708.51		52,261.49	-			118,647.63		-
Day Ahead Financial Bilateral Transaction Loss	55500-0022	256,022.43		16,675.69	-			36,743.85		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(49,030.04)		-	(3,099.50)			-		(7,036.70)
Real Time Distribution of Losses	55500-0041	(272,000.82)		-	(17,716.42)			-		(39,037.04)
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-	-			-		-
Subtotal		761,700.08	71,211	68,937.18	71,211	(20,815.92)		235,729	155,391.48	235,729
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	71,211	-	71,211	-		235,729	-	235,729
Schedule 16 & 17 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	171,036.96		11,140.27	-			24,546.90		-
Real Time Market Administration (Schedule 17)	55500-0036	18,474.02		1,203.28	-			2,651.36		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,791.90		246.98	-			544.21		-
Subtotal		193,302.88	71,211	12,590.53	71,211	-		235,729	27,742.46	235,729
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	55,702.56		3,521.31	-			7,994.33		-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(71,266.90)		-	(4,505.23)			-		(10,228.09)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	219,193.53		14,276.89	-			31,458.24		-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-	-			-		-
Auction Revenue Rights Transaction Amount	55500-0058	(72,545.70)		-	(4,725.17)			-		(10,411.62)
Financial Transmission Rights Annual Transaction Amount	55500-0059	92,311.20		6,012.57	-			13,248.33		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	7,513.13		489.36	-			1,078.27		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(66,690.22)		-	(4,343.78)			-		(9,571.25)
Financial Transmission Rights Hourly Allocation	55500-0032	(59,345.01)		-	(3,865.36)			-		(8,517.08)
Financial Transmission Rights Monthly Allocation	55500-0033	(2,432.92)		-	(158.47)			-		(349.17)
Financial Transmission Rights Yearly Allocation	55500-0035	(1,734.13)		-	(112.95)			-		(248.88)
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(4,010.17)		-	(261.20)			-		(575.53)
FTR Guarantee Uplift Amount	55500-0055	(37,664.82)		-	(2,453.25)			-		(5,405.58)
Financial Transmission Rights Monthly Transaction Amount	55500-0056	20,995.26		1,367.50	-			3,013.20		-
Financial Transmission Rights Transaction	55500-0034	-		-	-			-		-
Subtotal		80,025.81	71,211	25,667.63	71,211	(20,425.41)		235,729	56,792.36	235,729
RS&G & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	19,522.15		1,271.55	-			2,801.78		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(23,639.39)		-	(1,539.72)			-		(3,392.68)
Real Time Price Volatility Make Whole Payment	55500-0057	(77.53)		-	(5.05)			-		(11.13)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	16,283.00		1,060.57	-			2,336.91		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(60,039.23)		-	(3,910.58)			-		(8,616.72)
Subtotal		(47,951.00)	71,211	2,332.12	71,211	(5,455.35)		235,729	5,138.69	235,729
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	55,905.07		3,641.30	-			8,023.39		-
Real Time Net Inadvertent Distribution	55500-0044	(1,618.70)		-	(105.43)			-		(232.31)
Real Time Revenue Neutrality Uplift Amount	55500-0045	74,190.26		4,832.29	-			10,647.64		-
Real Time Uninstructed Deviation	55500-0048	-		-	-			-		-
Demand Response Allocation Uplift Amount	55500-0077	-		-	-			-		-
Day Ahead Ramp Capability Amount	55500-0079	-		-	-			-		-
Real Time Ramp Capability Amount	55500-0080	-		-	-			-		-
Real Time Schedule 49 Cost Distribution Amount	55500-0081	-		-	-			-		-
Subtotal		128,476.63	71,211	8,473.59	71,211	(105.43)		235,729	18,671.03	235,729
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		-	71,211	-	71,211	-		235,729	-	235,729
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(92,852.74)		-	(6,047.84)			-		(13,326.05)
Day Ahead Spinning Reserve Amount	55500-0063	(43,750.48)		-	(2,849.63)			-		(6,278.99)
Day Ahead Supplemental Reserve Amount	55500-0064	(65.53)		-	(4.27)			-		(9.40)
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-	-			-		-
Net Regulation Adjustment Amount	55500-0068	405.18		26.39	-			58.15		-
Real Time Regulation Amount	55500-0070	41,587.36		2,708.74	-			5,968.54		-
Regulation Reserve Cost Distribution Amount	55500-0071	29,557.32		1,925.18	-			4,242.01		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	28,496.42		1,856.08	-			4,089.75		-
Real Time Spinning Reserve Amount	55500-0072	21,850.92		1,410.20	-			3,107.30		-
Spinning Reserve Cost Distribution Amount	55500-0073	17,640.23		1,148.97	-			2,531.69		-
Real Time Supplemental Reserve Amount	55500-0074	(1.06)		-	(0.07)			-		(0.15)
Supplemental Reserve Cost Distribution Amount	55500-0075	5,026.42		327.39	-			721.38		-
Subtotal		7,694.04	71,211	9,402.95	71,211	(8,901.81)		235,729	20,718.82	235,729
Grand Total		7,069,125.50	71,211	127,404.01	71,211	(55,703.93)		235,729	284,454.84	235,729

MINNESOTA POWER		Account	FPE Retail				FAC Resale				Subtotal FPE and FAC				
MISO MONTHLY ALLOCATION			Number	February 2020	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		5,972,500.04									-		
5	Day Ahead Non-Asset Energy	55500-0027		(1,153,993.52)									-		
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		1,362,311.73									-		
	Excessive Energy Amount	55500-0066		(888.09)									-		
	Non-Excessive Energy Amount	55500-0069		317,888.80									-		
22	Real Time Non-Asset Energy	55500-0043		(660,098.36)									-		
	Subtotal			5,837,720.60			708,027	4,777,588.69			120,081	843,103.89	5,620,692.58		
Day Ahead and Real Time Energy Loss															
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		658,564.45											
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022		225,680.40											
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		(79,435.45)											
14	Real Time Distribution of Losses	55500-0041		(246,111.44)											
16	Real Time Financial Bilateral Transaction Loss	55500-0038		-											
	Subtotal			558,697.96			708,027	591,747.39	708,027	(218,360.72)	120,081	104,426.01	120,081	(38,534.24)	439,278.43
Virtual Energy															
12	Day Ahead Virtual Energy	55500-0030		-											
27	Real Time Virtual Energy	55500-0049		-											
	Subtotal			-			708,027	-	708,027	-	120,081	-	120,081	-	
Schedule 16 & 17 - 1/															
4	Day Ahead Market Administration (Schedule 17)	55500-0020		138,160.48											
19	Real Time Market Administration (Schedule 17)	55500-0036		12,367.09											
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		3,308.23											
	Subtotal			153,835.80			708,027	103,300.74	708,027	-	120,081	18,229.54	120,081	-	121,530.28
Congestion, FTRs & ARRs															
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		103,781.86											
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(408,218.16)											
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021		211,946.10											
15	Real Time Financial Bilateral Transaction Congestion	55500-0037		-											
	Auction Revenue Rights Transaction Amount	55500-0058		(72,545.70)											
	Financial Transmission Rights Annual Transaction Amount	55500-0059		92,311.20											
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060		7,513.13											
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(66,690.22)											
28	Financial Transmission Rights Hourly Allocation	55500-0032		(71,940.62)											
30	Financial Transmission Rights Monthly Allocation	55500-0033		(5,577.35)											
32	Financial Transmission Rights Yearly Allocation	55500-0035		-											
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		525.39											
	FTR Guarantee Uplift Amount	55500-0055		(586.96)											
	Financial Transmission Rights Monthly Transaction Amount	55500-0056		7,743.89											
31	Financial Transmission Rights Transaction	55500-0034		-											
	Subtotal			(201,737.44)			708,027	284,277.38	708,027	(418,808.88)	120,081	50,166.60	120,081	(73,907.45)	(158,272.35)
RSG & Make Whole Payments															
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		14,699.16											
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		5,352.45											
	Real Time Price Volatility Make Whole Payment	55500-0057		(222.18)											
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		15,682.99											
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		7,609.88											
	Subtotal			43,122.30			708,027	29,105.82	708,027	(149.19)	120,081	5,136.32	120,081	(26.33)	34,066.62
RNU & Misc Charges															
20	Real Time Miscellaneous	55500-0042		(85.69)											
21	Real Time Net Inadvertent Distribution	55500-0044		7,828.52											
23	Real Time Revenue Neutrality Uplift Amount	55500-0045		48,142.89											
26	Real Time Uninstructed Deviation	55500-0048		-											
27	Demand Response Allocation Uplift Amount	55500-0077		-											
33	Day Ahead Ramp Capability Amount	55500-0079		-											
34	Real Time Ramp Capability Amount	55500-0080		-											
	Real Time Schedule 49 Cost Distribution Amount	55500-0081		37,932.01											
	Subtotal			93,817.73			708,027	63,056.15	708,027	(57.54)	120,081	11,127.56	120,081	(10.15)	74,116.01
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			-			708,027	-	708,027	-	120,081	-	120,081	-	
ASM Charge Types (12 Other)															
	Day Ahead Regulation Amount	55500-0062		(84,691.01)											
	Day Ahead Spinning Reserve Amount	55500-0063		(31,826.74)											
	Day Ahead Supplemental Reserve Amount	55500-0064		3.68											
	Contingency Reserve Deployment Failure Charge Amount	55500-0065		-											
	Net Regulation Adjustment Amount	55500-0068		(793.12)											
	Real Time Regulation Amount	55500-0070		28,890.59											
	Regulation Reserve Cost Distribution Amount	55500-0071		30,603.39											
	Real Time Excessive Deficient Deployment Charge Amount	55500-0067		27,798.95											
	Real Time Spinning Reserve Amount	55500-0072		(979.99)											
	Spinning Reserve Cost Distribution Amount	55500-0073		16,841.27											
	Real Time Supplemental Reserve Amount	55500-0074		(18.58)											
	Supplemental Reserve Cost Distribution Amount	55500-0075		2,761.91											
	Subtotal			(11,409.65)			708,027	71,783.21	708,027	(79,444.79)	120,081	12,667.63	120,081	(14,019.67)	(9,013.62)
	Grand Total			6,474,047.30			708,027	5,920,859.37	708,027	(716,821.12)	120,081	1,044,857.54	120,081	(126,497.84)	6,122,397.94

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 Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation,

MINNESOTA POWER		Account	February 2020				MISO - Liquidation				Others - Liquidation			
MISO MONTHLY ALLOCATION		Number	February 2020				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													
Day Ahead Non-Asset Energy	55500-0027		5,972,500.04		(1,153,993.52)									
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050													
Excessive Energy Amount	55500-0066		1,362,311.73											
Non-Excessive Energy Amount	55500-0069		(888.09)											
Real Time Non-Asset Energy	55500-0043		317,888.80											
			(660,098.98)											
Subtotal			5,837,720.60		983				13,817				34,800	
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050													
Day Ahead Financial Bilateral Transaction Loss	55500-0022		658,564.45		599.83									
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		225,680.40		195.04									
Real Time Distribution of Losses	55500-0041		(79,435.45)		-									(72.35)
Real Time Financial Bilateral Transaction Loss	55500-0038		(246,111.44)		-									(212.69)
			-		-									-
Subtotal			558,697.96		983	794.87		983	(285.04)		13,817		13,817	
Virtual Energy														
Day Ahead Virtual Energy	55500-0030		-		-									
Real Time Virtual Energy	55500-0049		-		-									
Subtotal			-		983	-		983	-		13,817		13,817	-
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020		138,160.48		119.40									
Real Time Market Administration (Schedule 17)	55500-0036		12,367.09		10.69									
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		3,308.23		2.86									
Subtotal			153,835.80		983	132.95		983	-		13,817		13,817	-
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050													
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		103,781.86		94.53									
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		(408,218.16)		-									(371.81)
Real Time Financial Bilateral Transaction Congestion	55500-0037		211,946.10		183.17									-
Auction Revenue Rights Transaction Amount	55500-0058		(72,545.70)		-									(62.70)
Financial Transmission Rights Annual Transaction Amount	55500-0059		92,311.20		79.78									-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		7,513.13		6.49									-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(66,690.22)		-									(57.63)
Financial Transmission Rights Hourly Allocation	55500-0032		(71,940.62)		-									(62.17)
Financial Transmission Rights Monthly Allocation	55500-0033		(5,577.35)		-									(4.82)
Financial Transmission Rights Yearly Allocation	55500-0035		-		-									-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		525.39		0.45									-
FTR Guarantee Uplift Amount	55500-0055		(586.96)		-									(0.51)
Financial Transmission Rights Monthly Transaction Amount	55500-0056		7,743.89		6.69									-
Financial Transmission Rights Transaction	55500-0034		-		-									-
Subtotal			(201,737.44)		983	371.11		983	(559.64)		13,817		13,817	-
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		14,699.16		12.70									
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		5,352.45		4.63									
Real Time Price Volatility Make Whole Payment	55500-0057		(222.18)		-									(0.19)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		15,682.99		13.55									-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		7,609.88		6.58									-
Subtotal			43,122.30		983	37.46		983	(0.19)		13,817		13,817	-
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042		(85.69)		-									(0.07)
Real Time Net Inadvertent Distribution	55500-0044		7,828.52		6.77									-
Real Time Revenue Neutrality Uplift Amount	55500-0045		48,142.89		41.61									-
Real Time Uninstructed Deviation	55500-0048		-		-									-
Demand Response Allocation Uplift Amount	55500-0077		-		-									-
Day Ahead Ramp Capability Amount	55500-0079		-		-									-
Real Time Ramp Capability Amount	55500-0080		-		-									-
Real Time Schedule 49 Cost Distribution Amount	55500-0081		37,932.01		32.78									-
Subtotal			93,817.73		983	81.15		983	(0.07)		13,817		13,817	-
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			-		983	-		983	-		13,817		13,817	-
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062		(84,691.01)		-									(73.19)
Day Ahead Spinning Reserve Amount	55500-0063		(31,826.74)		-									(27.51)
Day Ahead Supplemental Reserve Amount	55500-0064		3.68		0.00									-
Contingency Reserve Deployment Failure Charge Amount	55500-0065		-		-									-
Net Regulation Adjustment Amount	55500-0068		(793.12)		-									(0.69)
Real Time Regulation Amount	55500-0070		28,890.59		24.97									-
Regulation Reserve Cost Distribution Amount	55500-0071		30,603.39		26.45									-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		27,798.95		24.02									-
Real Time Spinning Reserve Amount	55500-0072		(979.99)		-									(0.85)
Spinning Reserve Cost Distribution Amount	55500-0073		16,841.27		14.55									-
Supplemental Reserve Amount	55500-0074		(18.58)		-									(0.02)
Supplemental Reserve Cost Distribution Amount	55500-0075		2,761.91		2.39									-
Subtotal			(11,409.65)		983	92.38		983	(102.25)		13,817		13,817	-
Grand Total			6,474,047.30		983	1,509.92		983	(947.20)		13,817		13,817	-

MINNESOTA POWER		Account	February 2020				Contract Sales			
MISO MONTHLY ALLOCATION		Number	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		5,972,500.04							
Day Ahead Non-Asset Energy	55500-0027		(1,153,993.52)							
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		1,362,311.73							
Excessive Energy Amount	55500-0066		(888.09)							
Non-Excessive Energy Amount	55500-0069		317,888.80							
Real Time Non-Asset Energy	55500-0043		(660,098.36)							
Subtotal			5,837,720.60		75,215				232,388	
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		658,564.45	45,919.84		-		94,158.91		-
Day Ahead Financial Bilateral Transaction Loss	55500-0022		225,680.40	14,930.97		-		32,266.88		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		(79,435.45)	-		(5,538.81)		-		(11,357.36)
Real Time Distribution of Losses	55500-0041		(246,111.44)	-		(16,282.68)		-		(35,188.03)
Real Time Financial Bilateral Transaction Loss	55500-0038		-	-		-		-		-
Subtotal			558,697.96	75,215	60,850.80	75,215	(21,821.49)	232,388	126,425.78	232,388
Virtual Energy										
Day Ahead Virtual Energy	55500-0030		-							
Real Time Virtual Energy	55500-0049		-							
Subtotal			-	75,215	-	75,215	-	232,388	-	232,388
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020		138,160.48	9,140.67		-		19,753.63		-
Real Time Market Administration (Schedule 17)	55500-0036		12,367.09	818.20		-		1,768.20		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		3,308.23	218.87		-		473.00		-
Subtotal			153,835.80	75,215	10,177.74	75,215	-	232,388	21,994.83	232,388
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		103,781.86	7,236.42		-		14,838.31		-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(408,218.16)	-		(28,463.90)		-		(58,365.40)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		211,946.10	14,022.31		-		30,303.20		-
Real Time Financial Bilateral Transaction Congestion	55500-0037		-	-		-		-		-
Auction Revenue Rights Transaction Amount	55500-0058		(72,545.70)	-		(4,799.61)		-		(10,372.29)
Financial Transmission Rights Annual Transaction Amount	55500-0059		92,311.20	6,107.29		-		13,198.29		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		7,513.13	497.07		-		1,074.20		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(66,690.22)	-		(4,412.21)		-		(9,535.10)
Financial Transmission Rights Hourly Allocation	55500-0032		(71,940.62)	-		(4,759.58)		-		(10,285.78)
Financial Transmission Rights Monthly Allocation	55500-0033		(5,577.35)	-		(369.00)		-		(797.49)
Financial Transmission Rights Yearly Allocation	55500-0035		-	-		-		-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		525.39	34.76		-		75.12		-
FTR Guarantee Uplift Amount	55500-0055		(586.96)	-		(38.83)		-		(83.92)
Financial Transmission Rights Monthly Transaction Amount	55500-0056		7,743.89	512.33		-		1,107.19		-
Financial Transmission Rights Transaction	55500-0034		-	-		-		-		-
Subtotal			(201,737.44)	75,215	28,410.18	75,215	(42,843.12)	232,388	60,596.31	232,388
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		14,699.16	972.49		-		2,101.63		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		5,352.45	354.12		-		765.27		-
Real Time Price Volatility Make Whole Payment	55500-0057		(222.18)	-		(14.70)		-		(31.77)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		15,682.99	1,037.58		-		2,242.29		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		7,609.88	503.47		-		1,088.03		-
Subtotal			43,122.30	75,215	2,867.66	75,215	(14.70)	232,388	6,197.22	232,388
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042		(85.69)	-		(5.67)		-		(12.25)
Real Time Net Inadvertent Distribution	55500-0044		7,828.52	517.93		-		1,119.29		-
Real Time Revenue Neutrality Uplift Amount	55500-0045		48,142.89	3,185.12		-		6,883.28		-
Real Time Uninstructed Deviation	55500-0048		-	-		-		-		-
Demand Response Allocation Uplift Amount	55500-0077		-	-		-		-		-
Day Ahead Ramp Capability Amount	55500-0079		-	-		-		-		-
Real Time Ramp Capability Amount	55500-0080		-	-		-		-		-
Real Time Schedule 49 Cost Distribution Amount	55500-0081		37,932.01	2,509.57		-		5,423.37		-
Subtotal			93,817.73	75,215	6,212.63	75,215	(5.67)	232,388	13,425.93	232,388
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			-	75,215	-	75,215	-	232,388	-	232,388
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062		(84,691.01)	-		(5,603.14)		-		(12,108.78)
Day Ahead Spinning Reserve Amount	55500-0063		(31,826.74)	-		(2,105.65)		-		(4,550.46)
Day Ahead Supplemental Reserve Amount	55500-0064		3.68	0.24		-		0.53		-
Contingency Reserve Deployment Failure Charge Amount	55500-0065		-	-		-		-		-
Net Regulation Adjustment Amount	55500-0068		(793.12)	-		(52.47)		-		(113.40)
Real Time Regulation Amount	55500-0070		28,890.59	1,911.40		-		4,130.66		-
Regulation Reserve Cost Distribution Amount	55500-0071		30,603.39	2,024.71		-		4,375.55		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		27,798.95	1,839.17		-		3,974.58		-
Real Time Spinning Reserve Amount	55500-0072		(979.99)	-		(64.84)		-		(140.12)
Spinning Reserve Cost Distribution Amount	55500-0073		16,841.27	1,114.21		-		2,407.90		-
Real Time Supplemental Reserve Amount	55500-0074		(18.58)	-		(1.23)		-		(2.66)
Supplemental Reserve Cost Distribution Amount	55500-0075		2,761.91	182.73		-		394.89		-
Subtotal			(11,409.65)	75,215	7,072.47	75,215	(7,827.33)	232,388	15,284.10	232,388
Grand Total			6,474,047.30	75,215	115,591.49	75,215	(72,512.31)	232,388	243,924.18	232,388

MINNESOTA POWER		Account	FPE Retail				FAC Resale				Subtotal FPE and FAC	
MISO MONTHLY ALLOCATION		Number	March 2020	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)
Day Ahead and Real Time Energy												
1a	Day Ahead Asset Energy	44700-0000 or 55500-0050	5,427,313.43									-
5	Day Ahead Non-Asset Energy	55500-0027	(1,249,395.67)									-
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	1,015,928.37									-
	Excessive Energy Amount	55500-0066	(536.46)									-
	Non-Excessive Energy Amount	55500-0069	713,475.48									-
22	Real Time Non-Asset Energy	55500-0043	(356,034.42)									-
Subtotal			5,550,750.72	721.656	4,440,249.20	721.656		117.336	722,831.27			5,163,080.47
Day Ahead and Real Time Energy Loss												
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	564,396.98									455,910.02
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	188,111.10						63,827.40			152,369.99
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(35,600.60)				(24,731.49)			(4,026.06)		(28,757.54)
14	Real Time Distribution of Losses	55500-0041	(90,764.64)				(63,226.65)			(10,292.71)		(73,519.36)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-				-		-	-		-
Subtotal			626,142.84	721.656	523,120.81	721.656	(87,958.14)	117.336	85,159.20	117.336	(14,318.77)	506,003.11
Virtual Energy												
12	Day Ahead Virtual Energy	55500-0030	-				-		-		-	-
27	Real Time Virtual Energy	55500-0049	-				-		-		-	-
Subtotal			-	721.656	-	721.656	-	117.336	-	117.336	-	-
Schedule 16 & 17 - 1/												
4	Day Ahead Market Administration (Schedule 17)	55500-0020	112,779.79				-		12,789.23		-	91,351.63
19	Real Time Market Administration (Schedule 17)	55500-0036	13,248.66				-		1,502.40		-	10,731.41
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	1,802.87				-		204.45		-	1,460.32
Subtotal			127,831.32	721.656	89,047.30	721.656	-	117.336	14,496.07	117.336	-	103,543.37
Congestion, FTRs & ARRs												
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	50,068.66				-		5,662.24		-	40,444.59
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(264,790.65)				(183,948.20)		-	(29,945.06)		(213,893.26)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	277,500.13				-		31,468.51		-	224,775.11
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-				-		-		-	-
	Auction Revenue Rights Transaction Amount	55500-0058	(78,417.68)				(54,625.76)		-	(8,892.56)		(63,518.32)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	71,696.81				49,944.00		8,130.42			58,074.42
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	4,448.05				3,098.51		504.41			3,602.92
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(59,942.36)				(41,755.85)		-	(6,797.46)		(48,553.31)
28	Financial Transmission Rights Hourly Allocation	55500-0032	(74,068.60)				(51,596.19)		-	(8,399.38)		(59,995.57)
30	Financial Transmission Rights Monthly Allocation	55500-0033	(7,209.62)				(5,022.36)		-	(817.59)		(5,839.95)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-				-		-			-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	2,654.30				1,848.99		301.00			2,149.98
	FTR Guarantee Uplift Amount	55500-0055	(2,651.73)				(1,847.20)		-	(300.71)		(2,147.90)
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-				-		-			-
31	Financial Transmission Rights Transaction	55500-0034	-				-		-			-
Subtotal			(80,712.89)	721.656	282,980.43	721.656	(338,795.55)	117.336	46,066.58	117.336	(55,152.76)	(64,901.30)
RSG & Make Whole Payments												
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	18,650.34				-		2,114.95		-	15,106.78
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-				-		-		-	-
	Real Time Price Volatility Make Whole Payment	55500-0057	(51.42)				(35.82)		-	(5.83)		(41.65)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	9,520.29				6,631.83		1,079.60			7,711.43
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-				-		-			-
Subtotal			28,119.21	721.656	19,623.66	721.656	(35.82)	117.336	3,194.55	117.336	(5.83)	22,776.56
RNU & Misc Charges												
20	Real Time Miscellaneous	55500-0042	(140.89)				(98.14)		-	(15.98)		(114.12)
21	Real Time Net Inadvertent Distribution	55500-0044	52,959.85				36,891.83		6,005.65			42,897.48
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	29,047.96				20,234.81		3,294.04			23,528.85
26	Real Time Uninstructed Deviation	55500-0048	-				-		-			-
27	Demand Response Allocation Uplift Amount	55500-0077	-				-		-			-
33	Day Ahead Ramp Capability Amount	55500-0078	-				-		-			-
34	Real Time Ramp Capability Amount	55500-0080	-				-		-			-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	50,167.97				34,947.01		5,689.05			40,636.06
Subtotal			132,034.89	721.656	92,073.65	721.656	(98.14)	117.336	14,988.73	117.336	(15.98)	106,948.26
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			-	721.656	-	721.656	-	117.336	-	117.336	-	-
ASM Charge Types (12 Other)												
	Day Ahead Regulation Amount	55500-0062	(86,929.75)				(60,555.26)		-	(9,857.83)		(70,413.10)
	Day Ahead Spinning Reserve Amount	55500-0063	(53,616.85)				(37,349.50)		-	(6,080.15)		(43,429.65)
	Day Ahead Supplemental Reserve Amount	55500-0064	(19.06)				(13.28)		-	(2.16)		(15.44)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-				-		-			-
	Net Regulation Adjustment Amount	55500-0068	1,209.38				842.45		137.14			979.60
	Real Time Regulation Amount	55500-0070	40,124.46				27,950.70		4,550.11			32,500.81
	Regulation Reserve Cost Distribution Amount	55500-0071	34,209.68				23,830.46		3,879.38			27,709.84
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	17,755.72				12,368.63		2,013.50			14,382.13
	Real Time Spinning Reserve Amount	55500-0072	17,010.29				11,849.37		1,928.97			13,778.33
	Spinning Reserve Cost Distribution Amount	55500-0073	18,303.35				12,750.11		2,075.60			14,825.71
	Real Time Supplemental Reserve Amount	55500-0074	12.01				8.37		1.36			9.73
	Supplemental Reserve Cost Distribution Amount	55500-0075	3,196.94				2,226.99		362.53			2,589.52
Subtotal			(8,743.83)	721.656	91,827.09	721.656	(97,918.04)	117.336	14,948.60	117.336	(15,940.15)	(7,082.50)
Grand Total			6,375,422.26	721.656	5,538,922.14	721.656	(524,805.69)	117.336	901,685.00	117.336	(85,433.48)	5,830,367.96

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
Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the
DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation,

MINNESOTA POWER

MISO MONTHLY ALLOCATION	Account Number	March 2020	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	5,427,313.43												
Day Ahead Non-Asset Energy	55500-0027	(1,249,395.67)												
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	1,015,928.37												
Excessive Energy Amount	55500-0066	(636.46)												
Non-Excessive Energy Amount	55500-0069	713,475.48												
Real Time Non-Asset Energy	55500-0043	(356,034.42)												
Subtotal		5,550,750.72	1,052					19,651					37,150	
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	564,396.98		548.53										
Day Ahead Financial Bilateral Transaction Loss	55500-0022	188,111.10		177.57										
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(35,600.60)												
Real Time Distribution of Losses	55500-0041	(90,764.64)												
Real Time Financial Bilateral Transaction Loss	55500-0038	-												
Subtotal		626,142.84	1,052	726.09	1,052	(120.28)		19,651		19,651			37,150	
Virtual Energy														
Day Ahead Virtual Energy	55500-0030	-												
Real Time Virtual Energy	55500-0049	-												
Subtotal		-	1,052	-	1,052	-		19,651		19,651			37,150	
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020	112,779.79		106.46										
Real Time Market Administration (Schedule 17)	55500-0036	13,248.66		12.51										
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	1,802.87		1.70										
Subtotal		127,831.32	1,052	120.67	1,052	-		19,651		19,651			37,150	
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	50,068.66		48.66										
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(264,790.65)												
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	277,500.13		261.95		(257.34)								
Real Time Financial Bilateral Transaction Congestion	55500-0037	-												
Auction Revenue Rights Transaction Amount	55500-0058	(78,417.68)				(74.02)								
Financial Transmission Rights Annual Transaction Amount	55500-0059	71,696.81		67.68										
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	4,448.05		4.20										
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(59,942.36)				(56.58)								
Financial Transmission Rights Hourly Allocation	55500-0032	(74,068.60)				(69.92)								
Financial Transmission Rights Monthly Allocation	55500-0033	(7,209.82)				(6.81)								
Financial Transmission Rights Yearly Allocation	55500-0035	-												
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	2,654.30		2.51										
FTR Guarantee Uplift Amount	55500-0055	(2,651.73)				(2.50)								
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-												
Financial Transmission Rights Transaction	55500-0034	-												
Subtotal		(80,712.89)	1,052	384.99	1,052	(467.18)		19,651		19,651			37,150	
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	18,650.34		17.61										
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-												
Real Time Price Volatility Make Whole Payment	55500-0057	(51.42)				(0.05)								
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	9,520.29		8.99										
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-												
Subtotal		28,119.21	1,052	26.59	1,052	(0.05)		19,651		19,651			37,150	
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042	(140.89)				(0.13)								
Real Time Net Inadvertent Distribution	55500-0044	52,959.85		49.99										
Real Time Revenue Neutrality Uplift Amount	55500-0045	29,047.96		27.42										
Real Time Uninstructed Deviation	55500-0048	-												
Demand Response Allocation Uplift Amount	55500-0077	-												
Day Ahead Ramp Capability Amount	55500-0079	-												
Real Time Ramp Capability Amount	55500-0080	-												
Real Time Schedule 49 Cost Distribution Amount	55500-0081	50,167.97		47.36										
Subtotal		132,034.89	1,052	124.77	1,052	(0.13)		19,651		19,651			37,150	
Grandfathered Charge Types														
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-												
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-												
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-												
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-												
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-												
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-												
Subtotal		-	1,052	-	1,052	-		19,651		19,651			37,150	
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062	(86,929.75)				(82.06)								
Day Ahead Spinning Reserve Amount	55500-0063	(53,616.85)				(50.61)								
Day Ahead Supplemental Reserve Amount	55500-0064	(19.06)				(0.02)								
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-												
Net Regulation Adjustment Amount	55500-0068	1,209.38		1.14										
Real Time Regulation Amount	55500-0070	40,124.46		37.88										
Regulation Reserve Cost Distribution Amount	55500-0071	34,209.68		32.29										
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	17,755.72		16.76										
Real Time Spinning Reserve Amount	55500-0072	17,010.29		16.06										
Spinning Reserve Cost Distribution Amount	55500-0073	18,303.35		17.28										
Real Time Supplemental Reserve Amount	55500-0074	12.01		0.01										
Supplemental Reserve Cost Distribution Amount	55500-0075	3,196.94		3.02										
Subtotal		(8,743.83)	1,052	124.43	1,052	(132.69)		19,651		19,651			37,150	
Grand Total		6,375,422.26	1,052	1,507.55	1,052	(720.32)		19,651		19,651			37,150	

MINNESOTA POWER

MISO MONTHLY ALLOCATION	Account Number	Others - Non-Liquidation				Contract Sales				
		March 2020	Mwh		Cost		Mwh		Revenue	
Day Ahead and Real Time Energy										
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	5,427,313.43								
Day Ahead Non-Asset Energy	55500-0027	(1,249,395.67)								
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	1,015,928.37								
Excessive Energy Amount	55500-0066	(636.46)								
Non-Excessive Energy Amount	55500-0069	713,475.48								
Real Time Non-Asset Energy	55500-0043	(356,034.42)								
Subtotal		5,550,750.72	82,470					192,047		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	564,396.98		43,017.38	-			64,921.05		-
Day Ahead Financial Bilateral Transaction Loss	55500-0022	188,111.10		13,925.63	-			21,637.91		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(35,600.60)		-	(2,713.42)			-		(4,095.04)
Real Time Distribution of Losses	55500-0041	(90,764.64)		-	(6,719.19)			-		(10,440.41)
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-	-			-		-
Subtotal		626,142.84	82,470	56,943.01	82,470	(9,432.61)		192,047	86,558.96	192,047
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	82,470	-	82,470	-		192,047	-	192,047
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	112,779.79		8,348.95	-			12,972.75		-
Real Time Market Administration (Schedule 17)	55500-0036	13,248.66		980.78	-			1,523.96		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	1,802.87		133.46	-			207.38		-
Subtotal		127,831.32	82,470	9,463.19	82,470	-		192,047	14,704.09	192,047
Congestion, FTRs & ARR										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	50,068.66		3,816.15	-			5,759.26		-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(264,790.65)		-	(20,181.90)			-		(30,458.15)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	277,500.13		20,542.99	-			31,920.09		-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-	-			-		-
Auction Revenue Rights Transaction Amount	55500-0058	(78,417.68)		-	(5,805.16)			-		(9,020.17)
Financial Transmission Rights Annual Transaction Amount	55500-0059	71,696.81		5,307.63	-			8,247.09		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	4,448.05		329.28	-			511.65		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(59,942.36)		-	(4,437.46)			-		(6,895.01)
Financial Transmission Rights Hourly Allocation	55500-0032	(74,068.60)		-	(5,483.21)			-		(8,519.91)
Financial Transmission Rights Monthly Allocation	55500-0033	(7,209.82)		-	(533.73)			-		(829.33)
Financial Transmission Rights Yearly Allocation	55500-0035	-		-	-			-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	2,654.30		196.49	-			305.32		-
FTR Guarantee Uplift Amount	55500-0055	(2,651.73)		-	(196.30)			-		(305.02)
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-	-			-		-
Financial Transmission Rights Transaction	55500-0034	-		-	-			-		-
Subtotal		(80,712.89)	82,470	30,192.54	82,470	(36,637.76)		192,047	46,743.40	192,047
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	18,650.34		1,380.66	-			2,145.30		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-		-	-			-		-
Real Time Price Volatility Make Whole Payment	55500-0057	(51.42)		-	(3.81)			-		(5.91)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	9,520.29		704.78	-			1,095.09		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-	-			-		-
Subtotal		28,119.21	82,470	2,085.44	82,470	(3.81)		192,047	3,240.39	192,047
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	(140.89)		-	(10.43)			-		(16.21)
Real Time Net Inadvertent Distribution	55500-0044	52,959.85		3,920.55	-			6,091.83		-
Real Time Revenue Neutrality Uplift Amount	55500-0045	29,047.96		2,150.38	-			3,341.31		-
Real Time Uninstructed Deviation	55500-0048	-		-	-			-		-
Demand Response Allocation Uplift Amount	55500-0077	-		-	-			-		-
Day Ahead Ramps Capability Amount	55500-0079	-		-	-			-		-
Real Time Ramps Capability Amount	55500-0080	-		-	-			-		-
Real Time Schedule 49 Cost Distribution Amount	55500-0081	50,167.97		3,713.87	-			5,770.69		-
Subtotal		132,034.89	82,470	9,784.81	82,470	(10.43)		192,047	15,203.82	192,047
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		-	82,470	-	82,470	-		192,047	-	192,047
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(86,929.75)		-	(6,435.30)			-		(9,999.29)
Day Ahead Spinning Reserve Amount	55500-0063	(53,816.85)		-	(3,969.19)			-		(6,167.40)
Day Ahead Supplemental Reserve Amount	55500-0064	(19.06)		-	(1.41)			-		(2.19)
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-	-			-		-
Net Regulation Adjustment Amount	55500-0068	1,209.38		89.53	-			139.11		-
Real Time Regulation Amount	55500-0070	40,124.46		2,970.36	-			4,615.41		-
Regulation Reserve Cost Distribution Amount	55500-0071	34,209.68		2,532.50	-			3,935.05		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	17,755.72		1,314.43	-			2,042.39		-
Real Time Spinning Reserve Amount	55500-0072	17,010.29		1,259.25	-			1,956.65		-
Spinning Reserve Cost Distribution Amount	55500-0073	18,303.35		1,354.97	-			2,105.38		-
Real Time Supplemental Reserve Amount	55500-0074	12.01		0.89	-			1.38		-
Supplemental Reserve Cost Distribution Amount	55500-0075	3,196.94		236.67	-			367.74		-
Subtotal		(8,743.83)	82,470	9,758.61	82,470	(10,405.90)		192,047	15,163.11	192,047
Grand Total		6,375,422.26	82,470	118,227.60	82,470	(56,490.51)		192,047	181,613.77	192,047

MINNESOTA POWER			Account	FPE Retail				FAC Resale				Subtotal FPE and FAC
MISO MONTHLY ALLOCATION			Number	April 2020								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	6,568,672.36									-
5	Day Ahead Non-Asset Energy	55500-0027	(1,227,761.47)									-
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	569,874.74									-
	Excessive Energy Amount	55500-0066	(552.26)									-
	Non-Excessive Energy Amount	55500-0069	32,335.27									-
22	Real Time Non-Asset Energy	55500-0043	(252,615.71)									-
	Subtotal		5,689,952.93	600,359	4,289,139.25	600,359	(116,696.24)	101,682	698,231.97	101,682	(18,997.06)	4,987,371.22
Day Ahead and Real Time Energy Loss												
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	310,792.57									250,741.05
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	160,279.45									129,826.35
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(8,489.16)									(6,848.88)
14	Real Time Distribution of Losses	55500-0041	(159,067.19)									(128,844.42)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-									-
	Subtotal		303,515.67	600,359	327,287.97	600,359	(116,696.24)	101,682	53,279.44	101,682	(18,997.06)	244,874.10
Virtual Energy												
12	Day Ahead Virtual Energy	55500-0030	-									-
27	Real Time Virtual Energy	55500-0049	-									-
	Subtotal		-	600,359	-	600,359	-	101,682	-	101,682	-	-
Schedule 16 & 17 - 1/												
4	Day Ahead Market Administration (Schedule 17)	55500-0020	150,048.52									121,539.30
19	Real Time Market Administration (Schedule 17)	55500-0036	13,447.07									10,892.13
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	1,616.28									1,309.19
	Subtotal		165,111.87	600,359	115,016.93	600,359	-	101,682	18,723.69	101,682	-	133,740.61
Congestion, FTRs & ARRs												
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	43,478.79									35,077.80
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(128,799.77)									(103,913.01)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	302,134.28									244,728.77
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-									-
	Auction Revenue Rights Transaction Amount	55500-0058	(78,417.68)									(63,518.32)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	71,696.81									58,074.42
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	4,448.05									3,602.92
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(59,942.36)									(48,553.31)
28	Financial Transmission Rights Hourly Allocation	55500-0032	(111,799.26)									(90,557.40)
30	Financial Transmission Rights Monthly Allocation	55500-0033	(3,480.86)									(2,819.50)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-									-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(8,926.51)									(7,230.47)
	FTR Guarantee Uplift Amount	55500-0055	8,926.51									7,230.47
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	17,556.18									14,220.51
31	Financial Transmission Rights Transaction	55500-0034	-									-
	Subtotal		56,874.18	600,359	312,124.00	600,359	(272,269.13)	101,682	50,810.88	101,682	(44,322.88)	46,342.87
RSG & Make Whole Payments												
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	15,996.18									12,956.91
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-									-
	Real Time Price Volatility Make Whole Payment	55500-0057	(593.55)									(480.78)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	13,773.02									11,156.15
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-									-
	Subtotal		29,175.65	600,359	20,737.22	600,359	(413.47)	101,682	3,375.83	101,682	(67.31)	23,632.28
RNU & Misc Charges												
20	Real Time Miscellaneous	55500-0042	(21,108.70)									(17,098.05)
21	Real Time Net Inadvertent Distribution	55500-0044	(29,558.79)									(23,942.62)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	148,883.42									120,595.57
26	Real Time Uninstructed Deviation	55500-0048	-									-
27	Demand Response Allocation Uplift Amount	55500-0077	-									-
33	Day Ahead Ramp Capability Amount	55500-0078	(80.16)									-
34	Real Time Ramp Capability Amount	55500-0080	38.00									30.78
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	57,911.70									46,908.48
	Subtotal		156,085.47	600,359	144,079.95	600,359	(35,294.97)	101,682	23,454.88	101,682	(5,745.69)	126,494.16
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		-	600,359	-	600,359	-	101,682	-	101,682	-	-
ASM Charge Types (12 Other)												
	Day Ahead Regulation Amount	55500-0062	(34,588.66)									(28,016.81)
	Day Ahead Spinning Reserve Amount	55500-0063	(12,947.64)									(10,487.59)
	Day Ahead Supplemental Reserve Amount	55500-0064	1.80									1.46
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-									-
	Net Regulation Adjustment Amount	55500-0068	(1,766.81)									(1,431.12)
	Real Time Regulation Amount	55500-0070	20,610.49									16,694.50
	Regulation Reserve Cost Distribution Amount	55500-0071	32,172.81									26,059.98
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	8,104.50									6,564.65
	Real Time Spinning Reserve Amount	55500-0072	7,615.31									6,166.40
	Spinning Reserve Cost Distribution Amount	55500-0073	20,271.27									16,413.73
	Real Time Supplemental Reserve Amount	55500-0074	(2.86)									(2.32)
	Supplemental Reserve Cost Distribution Amount	55500-0075	2,883.00									2,335.23
	Subtotal		42,353.21	600,359	63,849.78	600,359	(34,346.54)	101,682	10,394.15	101,682	(5,591.30)	34,306.10
	Grand Total		6,443,068.98	600,359	5,272,235.10	600,359	(459,020.35)	101,682	858,270.83	101,682	(74,724.24)	5,596,761.34

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 Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation,

MINNESOTA POWER		Account	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
MISO MONTHLY ALLOCATION		Number	April 2020											
			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		6,568,672.36											
Day Ahead Non-Asset Energy	55500-0027		(1,227,761.47)											
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		569,874.74											
Excessive Energy Amount	55500-0066		(552.26)											
Non-Excessive Energy Amount	55500-0069		32,335.27											
Real Time Non-Asset Energy	55500-0043		(252,615.71)											
Subtotal			5,699,952.93						30,197				17,600	
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		310,792.57											
Day Ahead Financial Bilateral Transaction Loss	55500-0022		160,279.45											
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		(8,489.16)											
Real Time Distribution of Losses	55500-0041		(159,067.19)											
Real Time Financial Bilateral Transaction Loss	55500-0038		-											
Subtotal			303,515.67						30,197				17,600	
Virtual Energy														
Day Ahead Virtual Energy	55500-0030		-											
Real Time Virtual Energy	55500-0049		-											
Subtotal			-						30,197				17,600	
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020		150,048.52											
Real Time Market Administration (Schedule 17)	55500-0036		13,447.07											
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		1,616.28											
Subtotal			165,111.87						30,197				17,600	
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		43,478.79											
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(128,799.77)											
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		302,134.28											
Real Time Financial Bilateral Transaction Congestion	55500-0037		-											
Auction Revenue Rights Transaction Amount	55500-0058		(78,417.68)											
Financial Transmission Rights Annual Transaction Amount	55500-0059		71,696.81											
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		4,448.05											
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(59,942.36)											
Financial Transmission Rights Hourly Allocation	55500-0032		(111,799.26)											
Financial Transmission Rights Monthly Allocation	55500-0033		(3,480.86)											
Financial Transmission Rights Yearly Allocation	55500-0035		-											
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(8,926.51)											
FTR Guarantee Uplift Amount	55500-0055		8,926.51											
Financial Transmission Rights Monthly Transaction Amount	55500-0056		17,556.18											
Financial Transmission Rights Transaction	55500-0034		-											
Subtotal			56,874.18						30,197				17,600	
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		15,996.18											
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		-											
Real Time Price Volatility Make Whole Payment	55500-0057		(593.55)											
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		13,773.02											
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		-											
Subtotal			29,175.65						30,197				17,600	
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042		(21,108.70)											
Real Time Net Inadvertent Distribution	55500-0044		(29,558.79)											
Real Time Revenue Neutrality Uplift Amount	55500-0045		148,883.42											
Real Time Uninstructed Deviation	55500-0048		-											
Demand Response Allocation Uplift Amount	55500-0077		-											
Day Ahead Ramps Capability Amount	55500-0079		(80.16)											
Real Time Ramps Capability Amount	55500-0080		38.00											
Real Time Schedule 49 Cost Distribution Amount	55500-0081		57,911.70											
Subtotal			156,085.47						30,197				17,600	
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			-						30,197				17,600	
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062		(34,588.66)											
Day Ahead Spinning Reserve Amount	55500-0063		(12,947.64)											
Day Ahead Supplemental Reserve Amount	55500-0064		1.80											
Contingency Reserve Deployment Failure Charge Amount	55500-0065		-											
Net Regulation Adjustment Amount	55500-0068		(1,766.81)											
Real Time Regulation Amount	55500-0070		20,610.49											
Regulation Reserve Cost Distribution Amount	55500-0071		32,172.81											
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		8,104.50											
Real Time Spinning Reserve Amount	55500-0072		7,615.31											
Spinning Reserve Cost Distribution Amount	55500-0073		20,271.27											
Real Time Supplemental Reserve Amount	55500-0074		(2.86)											
Supplemental Reserve Cost Distribution Amount	55500-0075		2,883.00											
Subtotal			42,353.21						30,197				17,600	
Grand Total			6,443,068.98						30,197				17,600	

MINNESOTA POWER		Account	Others - Non-Liquidation				Contract Sales					
MISO MONTHLY ALLOCATION		Number	April 2020		Mwh		Cost		Mwh		Revenue	
Day Ahead and Real Time Energy												
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	6,568,672.36										
Day Ahead Non-Asset Energy	55500-0027	(1,227,761.47)										
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	569,874.74										
Excessive Energy Amount	55500-0066	(552.26)										
Non-Excessive Energy Amount	55500-0069	32,335.27										
Real Time Non-Asset Energy	55500-0043	(252,615.71)										
Subtotal		5,689,952.93	56,141						182,939			
Day Ahead and Real Time Energy Loss												
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	310,792.57		18,457.75					41,593.77			
Day Ahead Financial Bilateral Transaction Loss	55500-0022	160,279.45		9,002.69					21,450.40			
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(8,489.16)		-		(504.17)			-		(1,136.11)	
Real Time Distribution of Losses	55500-0041	(159,067.19)		-		(8,934.60)			-		(21,288.16)	
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-			-		-	
Subtotal		303,515.67	56,141	27,460.44	56,141	(9,438.77)			182,939	63,044.17	182,939	(22,424.28)
Virtual Energy												
Day Ahead Virtual Energy	55500-0030	-										
Real Time Virtual Energy	55500-0049	-										
Subtotal		-	56,141	-	56,141	-			182,939	-	182,939	-
Schedule 16 & 17 - 1/												
Day Ahead Market Administration (Schedule 17)	55500-0020	150,048.52		8,428.03					20,081.18			
Real Time Market Administration (Schedule 17)	55500-0036	13,447.07		755.30					1,799.64			
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	1,616.28		90.78					216.31			
Subtotal		165,111.87	56,141	9,274.12	56,141	-			182,939	22,097.13	182,939	-
Congestion, FTRs & ARRs												
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	43,478.79		2,582.17					5,818.82			
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(128,799.77)		-		(7,649.33)			-		(17,237.44)	
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	302,134.28		16,970.50					40,435.02			
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-			-		-	
Auction Revenue Rights Transaction Amount	55500-0058	(78,417.68)		-		(4,404.62)			-		(10,494.74)	
Financial Transmission Rights Annual Transaction Amount	55500-0059	71,696.81		4,027.12					9,595.28			
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	4,448.05		249.84					595.29			
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(59,942.36)		-		(3,366.89)			-		(8,022.16)	
Financial Transmission Rights Hourly Allocation	55500-0032	(111,799.26)		-		(6,279.62)			-		(14,962.24)	
Financial Transmission Rights Monthly Allocation	55500-0033	(3,480.86)		-		(195.52)			-		(465.85)	
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-			-		-	
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(8,926.51)		-		(501.39)			-		(1,194.65)	
FTR Guarantee Uplift Amount	55500-0055	8,926.51		501.39					1,194.65			
Financial Transmission Rights Monthly Transaction Amount	55500-0056	17,556.18		986.11					2,349.57			
Financial Transmission Rights Transaction	55500-0034	-		-		-			-		-	
Subtotal		56,874.18	56,141	25,317.13	56,141	(22,397.36)			182,939	59,988.61	182,939	(52,377.07)
RSG & Make Whole Payments												
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	15,996.18		898.49					2,140.79			
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-		-		-			-		-	
Real Time Price Volatility Make Whole Payment	55500-0057	(593.55)		-		(33.34)			-		(79.44)	
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	13,773.02		773.61					1,843.26			
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-		-			-		-	
Subtotal		29,175.65	56,141	1,672.10	56,141	(33.34)			182,939	3,984.05	182,939	(79.44)
RNU & Misc Charges												
Real Time Miscellaneous	55500-0042	(21,108.70)		-		(1,185.65)			-		(2,825.00)	
Real Time Net Inadvertent Distribution	55500-0044	(29,558.79)		-		(1,660.28)			-		(3,955.89)	
Real Time Revenue Neutrality Uplift Amount	55500-0045	148,883.42		8,362.59					19,925.26			
Real Time Uninstructed Deviation	55500-0048	-		-		-			-		-	
Demand Response Allocation Uplift Amount	55500-0077	-		-		-			-		-	
Day Ahead Ramp Capability Amount	55500-0079	(80.16)		-		(69.43)			-		(10.73)	
Real Time Ramp Capability Amount	55500-0080	38.00		2.13					5.09			
Real Time Schedule 49 Cost Distribution Amount	55500-0073	57,911.70		3,252.83					7,750.40			
Subtotal		156,085.47	56,141	11,617.55	56,141	(2,915.36)			182,939	27,680.74	182,939	(6,791.62)
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		-	56,141	-	56,141	-			182,939	-	182,939	-
ASM Charge Types (12 Other)												
Day Ahead Regulation Amount	55500-0062	(34,588.66)		-		(1,942.80)			-		(4,629.04)	
Day Ahead Spinning Reserve Amount	55500-0063	(12,947.64)		-		(727.25)			-		(1,732.80)	
Day Ahead Supplemental Reserve Amount	55500-0064	1.80		0.10					0.24			
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-			-		-	
Net Regulation Adjustment Amount	55500-0068	(1,766.81)		-		(99.24)			-		(236.45)	
Real Time Regulation Amount	55500-0070	20,610.49		1,157.66					2,758.33			
Regulation Reserve Cost Distribution Amount	55500-0071	32,172.81		1,807.11					4,305.73			
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	8,104.50		455.22					1,084.64			
Real Time Spinning Reserve Amount	55500-0072	7,615.31		427.74					1,019.17			
Spinning Reserve Cost Distribution Amount	55500-0073	20,271.27		1,138.61					2,712.93			
Real Time Supplemental Reserve Amount	55500-0074	(2.86)		-		(0.16)			-		(0.38)	
Supplemental Reserve Cost Distribution Amount	55500-0075	2,883.00		161.93					385.84			
Subtotal		42,353.21	56,141	5,148.38	56,141	(2,769.45)			182,939	12,266.86	182,939	(6,598.68)
Grand Total		6,443,068.98	56,141	80,489.73	56,141	(37,554.28)			182,939	189,061.57	182,939	(88,271.09)

MINNESOTA POWER		Account Number	May 2020	FPE Retail				FAC Resale				Subtotal FPE and FAC Cost/(Revenue)
				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	
MISO MONTHLY ALLOCATION												
Day Ahead and Real Time Energy												
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	2,983,374.00									-
5	Day Ahead Non-Asset Energy	55500-0027	(2,066,724.40)									-
	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	712,749.39									-
13a	Excessive Energy Amount	55500-0066	(338.42)									-
	Non-Excessive Energy Amount	55500-0069	505,451.72									-
22	Real Time Non-Asset Energy	55500-0043	(388,054.83)									-
	Subtotal		1,746,457.47	449,545	1,352,974.10	449,545	(52,560.44)	95,249	277,115.18	95,249	(10,765.39)	1,630,089.27
Day Ahead and Real Time Energy Loss												
	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	215,412.47		152,842.50				31,305.09			184,147.59
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	200,418.88		141,395.52				28,960.53			170,356.05
	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	6,803.59		4,685.47				959.67			5,645.15
13c	Real Time Distribution of Losses	55500-0041	(74,500.98)		-		(52,560.44)		-		(10,765.39)	(63,325.83)
14	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-
	Subtotal		347,933.96	449,545	298,923.49	449,545	(52,560.44)	95,249	61,225.29	95,249	(10,765.39)	296,822.95
Virtual Energy												
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-
	Subtotal		-	449,545	-	449,545	-	95,249	-	95,249	-	-
Schedule 16 & 17 - 1/												
4	Day Ahead Market Administration (Schedule 17)	55500-0020	98,028.53		69,159.13				14,165.12			83,324.25
19	Real Time Market Administration (Schedule 17)	55500-0036	11,841.13		8,353.92				1,711.04			10,064.96
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	1,302.31		918.78				188.18			1,106.96
	Subtotal		111,171.97	449,545	78,431.82	449,545	-	95,249	16,064.35	95,249	-	94,496.17
Congestion, FTRs & ARRs												
	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	(65,038.03)		-		(46,146.70)		-		(9,451.73)	(55,598.44)
	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(303,180.22)		-		(215,116.71)		-		(44,060.05)	(259,176.76)
13b	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	378,110.61		266,757.04				54,636.98			321,394.02
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-	-
	Auction Revenue Rights Transaction Amount	55500-0058	(78,417.68)				(55,323.67)				(11,331.35)	(66,655.03)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	71,696.81		50,582.10				10,360.19			60,942.29
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	4,448.05		3,138.10				642.74			3,780.84
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(59,942.41)				(42,289.37)				(8,661.68)	(50,951.05)
28	Financial Transmission Rights Hourly Allocation	55500-0032	(101,393.96)				(71,533.44)				(14,651.43)	(86,184.87)
30	Financial Transmission Rights Monthly Allocation	55500-0033	(9,458.70)				(6,673.11)				(1,366.78)	(8,039.90)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-				-		-		-	-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	1,079.84		761.83				156.04			917.86
	FTR Guarantee Uplift Amount	55500-0055	(1,414.59)				(997.99)				(204.41)	(1,202.40)
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-		-		-	-
31	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-
	Subtotal		(163,510.29)	449,545	321,239.06	449,545	(438,081.00)	95,249	65,795.95	95,249	(89,727.43)	(140,773.43)
RSG & Make Whole Payments												
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	9,382.15		6,619.11				1,355.72			7,974.83
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-		-				-			-
	Real Time Price Volatility Make Whole Payment	55500-0057	(110.82)				(78.18)				(16.01)	(94.20)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	10,090.24		7,118.66				1,458.04			8,576.70
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-		-		-		-	-
	Subtotal		19,361.57	449,545	13,737.77	449,545	(78.18)	95,249	2,813.76	95,249	(16.01)	16,457.33
RNU & Misc Charges												
20	Real Time Miscellaneous	55500-0042	-		-		-		-		-	-
21	Real Time Net Inadvertent Distribution	55500-0044	(20,052.23)				(14,146.85)				(2,897.55)	(17,044.40)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	152,495.90		107,585.86				22,035.66			129,621.52
26	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-
27	Demand Response Allocation Uplift Amount	55500-0077	-		-		-		-		-	-
33	Day Ahead Ramp Capability Amount	55500-0078	(47.93)		-		-		-		-	-
34	Real Time Ramp Capability Amount	55500-0080	(136.85)		-		(96.55)		-		(19.77)	(116.32)
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	20,644.02		14,564.36				2,983.06			17,547.42
	Subtotal		152,902.91	449,545	122,150.21	449,545	(14,243.40)	95,249	25,018.72	95,249	(2,917.32)	130,008.21
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		-	449,545	-	449,545	-	95,249	-	95,249	-	-
ASM Charge Types (12 Other)												
	Day Ahead Regulation Amount	55500-0062	(35,802.20)		-		(25,258.45)				(5,173.42)	(30,431.87)
	Day Ahead Spinning Reserve Amount	55500-0063	(22,093.70)				(15,587.11)				(3,192.54)	(18,779.65)
	Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-		-		-	-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-	-
	Net Regulation Adjustment Amount	55500-0068	64.85		45.75				9.37			55.12
	Real Time Regulation Amount	55500-0070	12,469.68		8,797.36				1,801.87			10,599.23
	Regulation Reserve Cost Distribution Amount	55500-0071	24,425.89		17,232.47				3,529.54			20,762.01
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	8,620.84		6,082.00				1,245.71			7,327.71
	Real Time Spinning Reserve Amount	55500-0072	(1,913.80)				(1,350.19)				(276.54)	(1,626.79)
	Spinning Reserve Cost Distribution Amount	55500-0073	18,915.73		13,345.05				2,733.32			16,078.37
	Real Time Supplemental Reserve Amount	55500-0074	(1.29)				(0.91)				(0.19)	(1.10)
	Supplemental Reserve Cost Distribution Amount	55500-0075	2,096.68		1,479.21				302.97			1,782.18
	Subtotal		6,782.68	449,545	46,981.83	449,545	(42,196.65)	95,249	9,622.79	95,249	(8,642.69)	5,765.28
Grand Total			2,221,100.27	449,545	2,234,438.29	449,545	(547,159.68)	95,249	457,656.04	95,249	(112,068.85)	2,032,865.80

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 Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation.

MINNESOTA POWER		Account	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
MISO MONTHLY ALLOCATION		Number	May 2020											
			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		2,983,374.00											
Day Ahead Non-Asset Energy	55500-0027		(2,066,724.40)											
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		712,749.39											
Excessive Energy Amount	55500-0066		(338.42)											
Non-Excessive Energy Amount	55500-0069		505,451.72											
Real Time Non-Asset Energy	55500-0043		(388,054.83)											
Subtotal			1,746,457.47		16,478				45,456				16,942	
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		215,412.47		5,245.55	-								
Day Ahead Financial Bilateral Transaction Loss	55500-0022		200,418.88		5,171.73	-								
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		6,603.59		160.81	-								
Real Time Distribution of Losses	55500-0041		(74,500.98)		-	(1,922.47)								
Real Time Financial Bilateral Transaction Loss	55500-0038		-		-	-								
Subtotal			347,933.96	16,478	10,578.08	16,478	(1,922.47)		45,456	-	45,456	-	16,942	-
Virtual Energy														
Day Ahead Virtual Energy	55500-0030		-											
Real Time Virtual Energy	55500-0049		-											
Subtotal			-	16,478	-	16,478	-		45,456	-	45,456	-	16,942	-
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020		98,028.53		2,529.59	-								
Real Time Market Administration (Schedule 17)	55500-0036		11,841.13		305.56	-								
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		1,302.31		33.61	-								
Subtotal			111,171.97	16,478	2,868.75	16,478	-		45,456	-	45,456	-	16,942	-
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		(65,038.03)		-	(1,583.75)								
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(303,180.22)		-	(7,382.79)								
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		378,110.61		9,757.00	-								
Real Time Financial Bilateral Transaction Congestion	55500-0037		-		-	-								
Auction Revenue Rights Transaction Amount	55500-0058		(78,417.68)		-	(2,023.54)								
Financial Transmission Rights Annual Transaction Amount	55500-0059		71,696.81		1,850.11	-								
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		4,448.05		114.78	-								
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(59,942.41)		-	(1,546.79)								
Financial Transmission Rights Hourly Allocation	55500-0032		(101,393.96)		-	(2,616.43)								
Financial Transmission Rights Monthly Allocation	55500-0033		(9,458.70)		-	(244.08)								
Financial Transmission Rights Yearly Allocation	55500-0035		-		-	-								
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		1,079.84		27.86	-								
FTR Guarantee Uplift Amount	55500-0055		(1,414.59)		-	(36.50)								
Financial Transmission Rights Monthly Transaction Amount	55500-0056		-		-	-								
Financial Transmission Rights Transaction	55500-0034		-		-	-								
Subtotal			(163,510.29)	16,478	11,749.75	16,478	(15,433.89)		45,456	-	45,456	-	16,942	-
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		9,382.15		242.10	-								
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		-		-	-								
Real Time Price Volatility Make Whole Payment	55500-0057		(110.82)		-	(2.86)								
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		10,090.24		260.37	-								
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		-		-	-								
Subtotal			19,361.57	16,478	502.48	16,478	(2.86)		45,456	-	45,456	-	16,942	-
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042		-		-	-								
Real Time Net Inadvertent Distribution	55500-0044		(20,052.23)		-	(517.44)								
Real Time Revenue Neutrality Uplift Amount	55500-0045		152,495.90		3,935.10	-								
Real Time Uninstructed Deviation	55500-0048		-		-	-								
Demand Response Allocation Uplift Amount	55500-0077		-		-	-								
Day Ahead Ramp Capability Amount	55500-0079		(47.93)		-	(13.42)								
Real Time Ramp Capability Amount	55500-0080		(136.86)		-	(3.53)								
Real Time Schedule 49 Cost Distribution Amount	55500-0081		20,644.02		532.71	-								
Subtotal			152,902.91	16,478	4,467.81	16,478	(534.39)		45,456	-	45,456	-	16,942	-
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			-	16,478	-	16,478	-		45,456	-	45,456	-	16,942	-
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062		(35,802.20)		-	(923.86)								
Day Ahead Spinning Reserve Amount	55500-0063		(22,093.70)		-	(570.12)								
Day Ahead Supplemental Reserve Amount	55500-0064		-		-	-								
Contingency Reserve Deployment Failure Charge Amount	55500-0065		-		-	-								
Net Regulation Adjustment Amount	55500-0068		64.85		1.67	-								
Real Time Regulation Amount	55500-0070		12,469.68		321.78	-								
Regulation Reserve Cost Distribution Amount	55500-0071		24,425.89		630.30	-								
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		8,620.84		222.46	-								
Real Time Spinning Reserve Amount	55500-0072		(1,313.80)		-	(49.38)								
Spinning Reserve Cost Distribution Amount	55500-0073		18,915.73		488.11	-								
Real Time Supplemental Reserve Amount	55500-0074		(1.29)		-	(0.03)								
Supplemental Reserve Cost Distribution Amount	55500-0075		2,096.68		54.10	-								
Subtotal			6,782.68	16,478	1,718.42	16,478	(1,543.40)		45,456	-	45,456	-	16,942	-
Grand Total			2,221,100.27	16,478	31,885.30	16,478	(19,437.01)		45,456	-	45,456	-	16,942	-

MINNESOTA POWER		Account	Others - Non-Liquidation				Contract Sales				
MISO MONTHLY ALLOCATION		Number	May 2020	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		2,983,374.00								
Day Ahead Non-Asset Energy	55500-0027		(2,066,724.40)								
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		712,749.39								
Excessive Energy Amount	55500-0066		(338.42)								
Non-Excessive Energy Amount	55500-0069		505,451.72								
Real Time Non-Asset Energy	55500-0043		(388,054.83)								
Subtotal			1,746,457.47	38,624				88,499			
Day Ahead and Real Time Energy Loss											
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		215,412.47		12,295.73		-		13,723.61		-
Day Ahead Financial Bilateral Transaction Loss	55500-0022		200,418.88		12,122.71		-		12,768.39		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		6,603.59		376.93		-		420.70		-
Real Time Distribution of Losses	55500-0041		(74,500.98)		-		(4,506.33)		-		(4,746.35)
Real Time Financial Bilateral Transaction Loss	55500-0038		-		-		-		-		-
Subtotal			347,933.96	38,624	24,795.37	38,624	(4,506.33)	88,499	26,912.71	88,499	(4,746.35)
Virtual Energy											
Day Ahead Virtual Energy	55500-0030		-								
Real Time Virtual Energy	55500-0049		-								
Subtotal			-	38,624	-	38,624	-	88,499	-	88,499	-
Schedule 16 & 17 - 1/											
Day Ahead Market Administration (Schedule 17)	55500-0020		98,028.53		5,929.44		-		6,245.25		-
Real Time Market Administration (Schedule 17)	55500-0036		11,841.13		716.23		-		754.38		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		1,302.31		78.77		-		82.97		-
Subtotal			111,171.97	38,624	6,724.44	38,624	-	88,499	7,082.60	88,499	-
Congestion, FTRs & ARRs											
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		(65,038.03)		-		(3,712.37)		-		(4,143.48)
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(303,180.22)		-		(17,305.50)		-		(19,315.17)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		378,110.61		22,870.72		-		24,088.87		-
Real Time Financial Bilateral Transaction Congestion	55500-0037		-		-		-		-		-
Auction Revenue Rights Transaction Amount	55500-0058		(78,417.68)		-		(4,743.24)		-		(4,995.88)
Financial Transmission Rights Annual Transaction Amount	55500-0059		71,696.81		4,336.71		-		4,567.70		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		4,448.05		269.05		-		283.38		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(59,942.41)		-		(3,625.73)		-		(3,818.84)
Financial Transmission Rights Hourly Allocation	55500-0032		(101,393.96)		-		(6,133.00)		-		(6,459.66)
Financial Transmission Rights Monthly Allocation	55500-0033		(9,458.70)		-		(572.13)		-		(602.60)
Financial Transmission Rights Yearly Allocation	55500-0035		-		-		-		-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		1,079.84		65.32		-		68.80		-
FTR Guarantee Uplift Amount	55500-0055		(1,414.59)		-		(85.56)		-		(90.12)
Financial Transmission Rights Monthly Transaction Amount	55500-0056		-		-		-		-		-
Financial Transmission Rights Transaction	55500-0034		-		-		-		-		-
Subtotal			(163,510.29)	38,624	27,541.80	38,624	(36,177.53)	88,499	29,008.74	88,499	(39,425.74)
RSG & Make Whole Payments											
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		9,382.15		567.50		-		597.72		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		-		-		-		-		-
Real Time Price Volatility Make Whole Payment	55500-0057		(110.82)		-		(6.70)		-		(7.06)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		10,090.24		610.33		-		642.83		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		-		-		-		-		-
Subtotal			19,361.57	38,624	1,177.82	38,624	(6.70)	88,499	1,240.56	88,499	(7.06)
RNU & Misc Charges											
Real Time Miscellaneous	55500-0042		-		-		-		-		-
Real Time Net Inadvertent Distribution	55500-0044		(20,052.23)		-		(1,212.90)		-		(1,277.50)
Real Time Revenue Neutrality Uplift Amount	55500-0045		152,495.90		9,224.00		-		9,715.29		-
Real Time Uninstructed Deviation	55500-0048		-		-		-		-		-
Demand Response Allocation Uplift Amount	55500-0077		-		-		-		-		-
Day Ahead Ramp Capability Amount	55500-0079		(47.93)		-		(31.46)		-		(3.05)
Real Time Ramp Capability Amount	55500-0080		(136.85)		-		(8.28)		-		(6.72)
Real Time Schedule 49 Cost Distribution Amount	55500-0081		20,644.02		1,248.69		-		1,315.20		-
Subtotal			152,902.91	38,624	10,472.69	38,624	(1,252.63)	88,499	11,030.49	88,499	(1,289.27)
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			-	38,624	-	38,624	-	88,499	-	88,499	-
ASM Charge Types (12 Other)											
Day Ahead Regulation Amount	55500-0062		(35,802.20)		-		(2,165.56)		-		(2,280.91)
Day Ahead Spinning Reserve Amount	55500-0063		(22,093.70)		-		(1,336.38)		-		(1,407.56)
Day Ahead Supplemental Reserve Amount	55500-0064		-		-		-		-		-
Contingency Reserve Deployment Failure Charge Amount	55500-0065		-		-		-		-		-
Net Regulation Adjustment Amount	55500-0068		64.85		3.92		-		4.13		-
Real Time Regulation Amount	55500-0070		12,469.68		754.25		-		794.42		-
Regulation Reserve Cost Distribution Amount	55500-0071		24,425.89		1,477.45		-		1,556.14		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		8,620.84		521.45		-		549.22		-
Real Time Spinning Reserve Amount	55500-0072		(1,313.80)		-		(115.76)		-		(121.93)
Spinning Reserve Cost Distribution Amount	55500-0073		18,915.73		1,144.15		-		1,205.09		-
Real Time Supplemental Reserve Amount	55500-0074		(1.29)		-		(0.08)		-		(0.08)
Supplemental Reserve Cost Distribution Amount	55500-0075		2,096.68		126.82		-		133.58		-
Subtotal			6,782.68	38,624	4,028.04	38,624	(3,617.78)	88,499	4,242.58	88,499	(3,810.47)
Grand Total			2,221,100.27	38,624	74,740.16	38,624	(45,560.97)	88,499	79,517.69	88,499	(49,278.89)

MINNESOTA POWER				FPE Retail		FAC Resale				Subtotal FPE and FAC	
MISO MONTHLY ALLOCATION				Mwh		Cost		Mwh		Revenue	Cost/(Revenue)
Account	Number	June 2020									
Day Ahead and Real Time Energy											
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	3,853,505.99	-	-	-	-	-	-	-	-
5	Day Ahead Non-Asset Energy	55500-0027	(4,799,496.04)	-	-	-	-	-	-	-	-
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	722,381.56	-	-	-	-	-	-	-	-
	Excessive Energy Amount	55500-0066	1,724.25	-	-	-	-	-	-	-	-
	Non-Excessive Energy Amount	55500-0069	338,985.53	-	-	-	-	-	-	-	-
22	Real Time Non-Asset Energy	55500-0043	(233,483.89)	-	-	-	-	-	-	-	-
Subtotal			(116,382.59)	438,201	473,545.78	438,201	101,211	111,078.64	101,211	(14,777.36)	584,624.42
Day Ahead and Real Time Energy Loss											
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	737,699.12	-	-	-	-	-	-	-	-
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	271,328.50	-	-	-	-	-	-	-	-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	26,405.00	-	-	-	-	-	-	-	-
14	Real Time Distribution of Losses	55500-0041	(98,450.08)	-	-	-	-	-	-	-	-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	5,213.00	-	-	-	-	-	-	-	-
Subtotal			942,193.54	438,201	589,589.25	438,201	101,211	138,298.71	101,211	(14,777.36)	650,112.40
Virtual Energy											
12	Day Ahead Virtual Energy	55500-0030	-	-	-	-	-	-	-	-	-
27	Real Time Virtual Energy	55500-0049	-	-	-	-	-	-	-	-	-
Subtotal			-	438,201	-	438,201	-	-	101,211	-	-
Schedule 16 & 17 - 1/											
4	Day Ahead Market Administration (Schedule 17)	55500-0020	131,936.81	-	-	-	-	-	-	-	-
19	Real Time Market Administration (Schedule 17)	55500-0036	14,586.53	-	-	-	-	-	-	-	-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	4,214.41	-	-	-	-	-	-	-	-
Subtotal			150,737.75	438,201	96,457.09	438,201	-	19,803.72	101,211	-	119,082.82
Congestion, FTRs & ARRs											
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	(292,022.45)	-	-	-	-	-	-	-	-
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(117,885.57)	-	-	-	-	-	-	-	-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	641,876.60	-	-	-	-	-	-	-	-
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	9,640.00	-	-	-	-	-	-	-	-
15	Auction Revenue Rights Transaction Amount	55500-0058	(194,393.94)	-	-	-	-	-	-	-	-
	Financial Transmission Rights Annual Transaction Amount	55500-0059	234,634.98	-	-	-	-	-	-	-	-
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	1,816.12	-	-	-	-	-	-	-	-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(72,633.28)	-	-	-	-	-	-	-	-
28	Financial Transmission Rights Hourly Allocation	55500-0032	(366,800.78)	-	-	-	-	-	-	-	-
30	Financial Transmission Rights Monthly Allocation	55500-0033	(5,452.63)	-	-	-	-	-	-	-	-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-	-	-	-	-	-	-	-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(18,543.98)	-	-	-	-	-	-	-	-
	FTR Guarantee Uplift Amount	55500-0055	18,792.51	-	-	-	-	-	-	-	-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	-	-	-	-	-	-	-	-
31	Financial Transmission Rights Transaction	55500-0034	-	-	-	-	-	-	-	-	-
Subtotal			(160,970.42)	438,201	580,237.14	438,201	(642,299.87)	101,211	136,105.01	101,211	(150,662.93)
RSG & Make Whole Payments											
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	7,480.69	-	-	-	-	-	-	-	-
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(1,745.05)	-	-	-	-	-	-	-	-
	Real Time Price Volatility Make Whole Payment	55500-0057	(810.39)	-	-	-	-	-	-	-	-
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	16,453.43	-	-	-	-	-	-	-	-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-	-	-	-	-	-	-	-	-
Subtotal			21,378.68	438,201	15,315.44	438,201	(1,635.23)	101,211	3,592.51	101,211	(383.57)
RNU & Misc Charges											
20	Real Time Miscellaneous	55500-0042	9,639.34	-	-	-	-	-	-	-	-
21	Real Time Net Inadvertent Distribution	55500-0044	7,860.51	-	-	-	-	-	-	-	-
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	(43.82)	-	-	-	-	-	-	-	-
26	Real Time Uninstructed Deviation	55500-0048	-	-	-	-	-	-	-	-	-
27	Demand Response Allocation Uplift Amount	55500-0077	-	-	-	-	-	-	-	-	-
33	Day Ahead Ramp Capability Amount	55500-0078	(699.06)	-	-	-	-	-	-	-	-
34	Real Time Ramp Capability Amount	55500-0080	(9.64)	-	-	-	-	-	-	-	-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	19,618.67	-	-	-	-	-	-	-	-
Subtotal			36,366.00	438,201	23,752.14	438,201	(34.21)	101,211	5,571.49	101,211	(8.02)
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			-	438,201	-	438,201	-	101,211	-	101,211	-
ASM Charge Types (12 Other)											
	Day Ahead Regulation Amount	55500-0062	(36,912.06)	-	-	-	-	-	-	-	-
	Day Ahead Spinning Reserve Amount	55500-0063	(51,487.95)	-	-	-	-	-	-	-	-
	Day Ahead Supplemental Reserve Amount	55500-0064	(67.24)	-	-	-	-	-	-	-	-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	192.10	-	-	-	-	-	-	-	-
	Net Regulation Adjustment Amount	55500-0068	490.64	-	-	-	-	-	-	-	-
	Real Time Regulation Amount	55500-0070	13,582.04	-	-	-	-	-	-	-	-
	Regulation Reserve Cost Distribution Amount	55500-0071	18,854.26	-	-	-	-	-	-	-	-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	9,029.47	-	-	-	-	-	-	-	-
	Real Time Spinning Reserve Amount	55500-0072	6,176.13	-	-	-	-	-	-	-	-
	Spinning Reserve Cost Distribution Amount	55500-0073	13,664.43	-	-	-	-	-	-	-	-
	Supplemental Reserve Amount	55500-0074	(14.73)	-	-	-	-	-	-	-	-
	Supplemental Reserve Cost Distribution Amount	55500-0075	1,904.82	-	-	-	-	-	-	-	-
Subtotal			(24,588.09)	438,201	40,885.70	438,201	(56,619.62)	101,211	9,590.47	101,211	(13,281.15)
Grand Total			848,736.87	438,201	1,819,782.54	438,201	(763,587.13)	101,211	426,862.57	101,211	(179,113.03)

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
Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the
DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation,

MINNESOTA POWER		Account Number	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
MISO MONTHLY ALLOCATION			June 2020											
			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		3,853,505.99											
Day Ahead Non-Asset Energy	55500-0027		(4,799,496.04)											
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		722,381.56											
Excessive Energy Amount	55500-0066		1,724.25											
Non-Excessive Energy Amount	55500-0069		338,985.53											
Real Time Non-Asset Energy	55500-0043		(233,483.88)											
Subtotal			(116,382.59)		39,931				83,465				40,804	
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		737,699.12		75,416.49									
Day Ahead Financial Bilateral Transaction Loss	55500-0022		271,328.50		15,089.88									
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		26,405.00		2,699.44									
Real Time Distribution of Losses	55500-0041		(98,450.08)		-								(5,475.28)	
Real Time Financial Bilateral Transaction Loss	55500-0038		5,213.00		289.92								-	
Subtotal			942,195.54		39,931		93,495.73		39,931		(5,475.28)		83,465	
Virtual Energy														
Day Ahead Virtual Energy	55500-0030		-		-									
Real Time Virtual Energy	55500-0049		-		-									
Subtotal			-		39,931		-		39,931		-		83,465	
Schedule 16 & 17 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020		131,936.81		7,337.64									
Real Time Market Administration (Schedule 17)	55500-0036		14,586.53		811.23									
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		4,214.41		234.38									
Subtotal			150,737.75		39,931		8,383.25		39,931		-		83,465	
Congestion, FTRs & ARR														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		(292,022.45)		-								(29,854.05)	
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(117,885.57)		-								(12,051.68)	
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		641,878.60		35,697.94								-	
Real Time Financial Bilateral Transaction Congestion	55500-0037		9,640.00		536.13								-	
Auction Revenue Rights Transaction Amount	55500-0058		(194,393.94)		-								(10,811.18)	
Financial Transmission Rights Annual Transaction Amount	55500-0059		234,634.98		13,049.17								-	
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		1,816.12		101.00								-	
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(72,633.28)		-								(4,039.48)	
Financial Transmission Rights Hourly Allocation	55500-0032		(366,800.78)		-								(20,399.55)	
Financial Transmission Rights Monthly Allocation	55500-0033		(5,452.63)		-								(303.25)	
Financial Transmission Rights Yearly Allocation	55500-0035		-		-								-	
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(18,543.98)		-								(1,031.32)	
FTR Guarantee Uplift Amount	55500-0055		18,792.51		1,045.14								-	
Financial Transmission Rights Monthly Transaction Amount	55500-0056		-		-								-	
Financial Transmission Rights Transaction	55500-0034		-		-								-	
Subtotal			(160,970.42)		39,931		50,429.39		39,931		(78,490.51)		83,465	
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		7,480.69		416.04								-	
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(1,745.05)		-								(97.05)	
Real Time Price Volatility Make Whole Payment	55500-0057		(810.39)		-								(45.07)	
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		16,453.43		915.05								-	
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		-		-								-	
Subtotal			21,378.68		39,931		1,331.09		39,931		(142.12)		83,465	
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042		9,639.34		536.09								-	
Real Time Net Inadvertent Distribution	55500-0044		7,860.51		437.16								-	
Real Time Revenue Neutrality Uplift Amount	55500-0045		(43.82)		-								(2.44)	
Real Time Uninstructed Deviation	55500-0048		-		-								-	
Demand Response Allocation Uplift Amount	55500-0077		-		-								-	
Day Ahead Ramp Capability Amount	55500-0079		(699.06)		-								(247.66)	
Real Time Ramp Capability Amount	55500-0080		(9.64)		-								(0.54)	
Real Time Schedule 49 Cost Distribution Amount	55500-0081		19,618.67		1,091.09								-	
Subtotal			36,366.00		39,931		2,064.34		39,931		(250.63)		83,465	
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			-		39,931		-		39,931		-		83,465	
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062		(36,912.06)		-								(2,052.86)	
Day Ahead Spinning Reserve Amount	55500-0063		(51,487.95)		-								(2,863.49)	
Day Ahead Supplemental Reserve Amount	55500-0064		(67.24)		-								(3.74)	
Contingency Reserve Deployment Failure Charge Amount	55500-0065		192.10		10.68								-	
Net Regulation Adjustment Amount	55500-0068		490.64		27.29								-	
Real Time Regulation Amount	55500-0070		13,582.04		755.36								-	
Regulation Reserve Cost Distribution Amount	55500-0071		18,854.26		1,048.58								-	
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		9,029.47		502.17								-	
Real Time Spinning Reserve Amount	55500-0072		6,176.13		343.48								-	
Spinning Reserve Cost Distribution Amount	55500-0073		13,864.43		759.94								-	
Real Time Supplemental Reserve Amount	55500-0074		(14.73)		-								(0.82)	
Supplemental Reserve Cost Distribution Amount	55500-0075		1,904.82		105.94								-	
Subtotal			(24,588.09)		39,931		3,553.45		39,931		(4,920.91)		83,465	
Grand Total			848,736.87		39,931		159,257.24		39,931		(89,279.45)		83,465	

MINNESOTA POWER		Account	Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION		Number	June 2020							
			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	3,853,505.99								
Day Ahead Non-Asset Energy	55500-0027	(4,799,496.04)								
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	722,381.56								
Excessive Energy Amount	55500-0066	1,724.25								
Non-Excessive Energy Amount	55500-0069	338,985.53								
Real Time Non-Asset Energy	55500-0043	(233,483.88)								
Subtotal		(116,382.59)	65,694				111,023			
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	737,699.12		124,072.84		-		46,393.54		-
Day Ahead Financial Bilateral Transaction Loss	55500-0022	271,328.50		24,825.39		-		17,063.72		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	26,405.00		4,441.03		-		1,660.60		-
Real Time Distribution of Losses	55500-0041	(98,450.08)		-		(9,007.76)		-		(6,191.48)
Real Time Financial Bilateral Transaction Loss	55500-0038	5,213.00		476.97		-		327.84		-
Subtotal		942,195.54	65,694	153,816.23	65,694	(9,007.76)	111,023	65,445.69	111,023	(6,191.48)
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	65,694	-	65,694	-	111,023	-	111,023	-
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	131,936.81		12,071.65		-		8,297.44		-
Real Time Market Administration (Schedule 17)	55500-0036	14,586.53		1,334.60		-		917.34		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	4,214.41		385.60		-		265.04		-
Subtotal		150,737.75	65,694	13,791.86	65,694	-	111,023	9,479.82	111,023	-
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	(292,022.45)		-		(49,114.95)		-		(18,365.15)
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(117,885.57)		-		(19,827.05)		-		(7,413.77)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	641,879.60		58,729.13		-		40,367.43		-
Real Time Financial Bilateral Transaction Congestion	55500-0037	9,640.00		882.02		-		606.25		-
Auction Revenue Rights Transaction Amount	55500-0058	(194,393.94)		-		(17,786.21)		-		(12,225.34)
Financial Transmission Rights Annual Transaction Amount	55500-0059	234,634.98		21,468.09		-		14,756.08		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	1,816.12		166.17		-		114.21		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(72,633.28)		-		(6,645.63)		-		(4,567.87)
Financial Transmission Rights Hourly Allocation	55500-0032	(366,800.78)		-		(33,560.69)		-		(23,067.92)
Financial Transmission Rights Monthly Allocation	55500-0033	(5,452.63)		-		(498.89)		-		(342.91)
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(18,543.98)		-		(1,696.69)		-		(1,166.22)
FTR Guarantee Uplift Amount	55500-0055	18,792.51		1,719.43		-		1,181.85		-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-		-		-		-		-
Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-
Subtotal		(160,970.42)	65,694	82,964.84	65,694	(129,130.12)	111,023	57,025.83	111,023	(67,149.18)
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	7,480.69		684.45		-		470.46		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(1,745.05)		-		(159.66)		-		(109.75)
Real Time Price Volatility Make Whole Payment	55500-0057	(810.39)		-		(74.15)		-		(50.97)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	16,453.43		1,505.42		-		1,034.75		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-		-		-		-
Subtotal		21,378.68	65,694	2,189.87	65,694	(233.81)	111,023	1,505.21	111,023	(160.71)
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	9,639.34		881.96		-		606.21		-
Real Time Net Inadvertent Distribution	55500-0044	7,860.51		719.20		-		494.34		-
Real Time Revenue Neutrality Uplift Amount	55500-0045	(43.82)		-		(4.01)		-		(2.76)
Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-
Demand Response Allocation Uplift Amount	55500-0077	-		-		-		-		-
Day Ahead Ramps Capability Amount	55500-0079	(699.06)		-		(407.44)		-		(43.96)
Real Time Ramps Capability Amount	55500-0080	(9.64)		-		(0.88)		-		(0.61)
Real Time Schedule 49 Cost Distribution Amount	55500-0081	19,618.67		1,795.02		-		1,233.81		-
Subtotal		36,366.00	65,694	3,396.18	65,694	(412.33)	111,023	2,334.37	111,023	(47.33)
Grandfathered Charge Types										
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023	-		-		-		-		-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024	-		-		-		-		-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025	-		-		-		-		-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026	-		-		-		-		-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040	-		-		-		-		-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039	-		-		-		-		-
Subtotal		-	65,694	-	65,694	-	111,023	-	111,023	-
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(36,912.06)		-		(3,377.29)		-		(2,321.38)
Day Ahead Spinning Reserve Amount	55500-0063	(51,487.95)		-		(4,710.93)		-		(3,238.05)
Day Ahead Supplemental Reserve Amount	55500-0064	(67.24)		-		(6.15)		-		(4.23)
Contingency Reserve Deployment Failure Charge Amount	55500-0065	192.10		17.58		-		12.08		-
Net Regulation Adjustment Amount	55500-0068	490.64		44.89		-		30.86		-
Real Time Regulation Amount	55500-0070	13,582.04		1,242.70		-		854.17		-
Regulation Reserve Cost Distribution Amount	55500-0071	18,854.26		1,725.08		-		1,185.74		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	9,029.47		826.16		-		567.86		-
Real Time Spinning Reserve Amount	55500-0072	6,176.13		565.09		-		388.41		-
Spinning Reserve Cost Distribution Amount	55500-0073	13,664.43		1,250.24		-		859.35		-
Real Time Supplemental Reserve Amount	55500-0074	(14.73)		-		(1.35)		-		(0.93)
Supplemental Reserve Cost Distribution Amount	55500-0075	1,904.82		174.28		-		119.79		-
Subtotal		(24,588.09)	65,694	5,844.02	65,694	(8,095.72)	111,023	4,018.26	111,023	(5,564.59)
Grand Total		848,736.87	65,694	262,005.00	65,694	(146,879.75)	111,023	139,809.17	111,023	(79,113.28)

MINNESOTA POWER			FPE Retail				FAC Resale				Subtotal FPE and FAC	
MISO MONTHLY ALLOCATION	Account Number	July 2020	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		5,065,384.54							-	
5	Day Ahead Non-Asset Energy	55500-0027		(4,990,627.96)							-	
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		216,055.23							-	
	Excessive Energy Amount	55500-0066		11,826.30							-	
	Non-Excessive Energy Amount	55500-0069		316,799.32							-	
22	Real Time Non-Asset Energy	55500-0043		102,338.08							-	
	Subtotal			721,775.51		468,803		508,159.54		118,097	127,039.89	635,199.43
Day Ahead and Real Time Energy Loss												
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		769,603.23		473,533.20				118,383.30		591,916.50
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022		627,104.06		386,296.10				96,574.03		482,870.13
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		43,395.55		26,701.07				6,675.27		33,376.34
14	Real Time Distribution of Losses	55500-0041		(100,722.74)		-				-	(15,511.30)	(77,556.51)
16	Real Time Financial Bilateral Transaction Loss	55500-0038		-		-				-	-	-
	Subtotal			1,339,380.10		468,803		886,530.37		118,097	221,632.59	1,030,606.46
Virtual Energy												
12	Day Ahead Virtual Energy	55500-0030		-		-				-		-
27	Real Time Virtual Energy	55500-0049		-		-				-		-
	Subtotal			-		468,803		-		118,097	-	118,097
Schedule 16 & 17 - 1/												
4	Day Ahead Market Administration (Schedule 17)	55500-0020		118,677.22		73,105.17				18,276.29		91,381.46
19	Real Time Market Administration (Schedule 17)	55500-0036		13,765.37		8,479.47				2,119.87		10,599.33
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		4,737.03		2,918.01				729.50		3,647.51
	Subtotal			137,179.62		468,803		84,502.65		118,097	21,125.66	105,628.31
Congestion, FTRs & ARRs												
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		1,018,841.02		626,888.02				156,722.01		783,610.03
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		133,619.17		82,215.24				20,553.81		102,769.05
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021		726,410.00		447,468.56				111,867.14		559,335.70
15	Real Time Financial Bilateral Transaction Congestion	55500-0037		-		-				-		-
	Auction Revenue Rights Transaction Amount	55500-0058		(194,393.94)		-		(119,746.67)		-	(29,936.67)	(149,683.33)
	Financial Transmission Rights Annual Transaction Amount	55500-0059		234,634.98		144,535.15				36,133.79		180,668.93
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060		1,816.12		1,118.73				279.68		1,398.41
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(72,349.88)		-		(44,567.53)		-	(11,141.88)	(55,709.41)
28	Financial Transmission Rights Hourly Allocation	55500-0032		(807,425.50)		-		(497,374.11)		-	(124,343.53)	(621,717.64)
30	Financial Transmission Rights Monthly Allocation	55500-0033		(13,633.68)		-		(8,398.35)		-	(2,099.59)	(10,497.99)
32	Financial Transmission Rights Yearly Allocation	55500-0035		-		-		-		-	-	-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(26,697.61)		-		(16,445.73)		-	(4,111.43)	(20,557.16)
	FTR Guarantee Uplift Amount	55500-0055		24,978.66		15,386.85				3,846.71		19,233.57
	Financial Transmission Rights Monthly Transaction Amount	55500-0056		56,537.35		34,827.01				8,706.75		43,533.76
31	Financial Transmission Rights Transaction	55500-0034		-		-		-		-		-
	Subtotal			1,082,336.69		468,803		1,352,439.56		118,097	338,109.89	1,711,633.09
RSG & Make Whole Payments												
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		11,057.90		6,811.67				1,702.92		8,514.58
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(38,797.54)		-		(23,899.28)		-	(5,974.82)	(29,874.11)
	Real Time Price Volatility Make Whole Payment	55500-0057		(3,096.88)		-		(1,907.68)		-	(476.92)	(2,384.60)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		64,509.69		39,737.97				9,934.49		49,672.46
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		(449,738.08)		-		(277,036.81)		-	(69,259.20)	(346,296.01)
	Subtotal			(416,061.91)		468,803		46,549.64		118,097	11,637.41	(75,710.94)
RNU & Misc Charges												
20	Real Time Miscellaneous	55500-0042		141,259.96		87,016.14				21,754.03		108,770.17
21	Real Time Net Inadvertent Distribution	55500-0044		71,162.65		43,836.19				10,959.05		54,795.24
23	Real Time Revenue Neutrality Uplift Amount	55500-0045		27,111.29		16,700.55				4,175.14		20,875.69
26	Real Time Uninstructed Deviation	55500-0048		-		-		-		-		-
27	Demand Response Allocation Uplift Amount	55500-0077		-		-		-		-		-
33	Day Ahead Ramp Capability Amount	55500-0078		(622.24)		-		-		-		-
34	Real Time Ramp Capability Amount	55500-0080		(36.47)		-		-		-		-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081		16,749.40		10,317.63				2,579.41		12,897.04
	Subtotal			255,624.59		468,803		157,870.51		118,097	39,467.63	118,097
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			-		468,803		-		118,097	-	118,097
ASM Charge Types (12 Other)												
	Day Ahead Regulation Amount	55500-0062		(67,125.35)		-		(41,349.22)		-	(10,337.30)	(51,686.52)
	Day Ahead Spinning Reserve Amount	55500-0063		(50,396.97)		-		(31,044.53)		-	(7,761.13)	(38,805.67)
	Day Ahead Supplemental Reserve Amount	55500-0064		(12.29)		-		(7.57)		-	(1.89)	(9.46)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065		-		-		-		-	-	-
	Net Regulation Adjustment Amount	55500-0068		1,882.68		1,159.73				289.93		1,446.66
	Real Time Regulation Amount	55500-0070		20,604.20		12,692.19				3,173.05		15,865.23
	Regulation Reserve Cost Distribution Amount	55500-0071		20,531.88		12,647.64				3,161.91		15,809.55
	Real Time Excessive Deficient Deployment Charge Amount	55500-0067		16,777.16		10,334.73				2,583.68		12,918.41
	Real Time Spinning Reserve Amount	55500-0072		(1,041.45)		-		(641.53)		-	(160.38)	(801.92)
	Spinning Reserve Cost Distribution Amount	55500-0073		16,685.74		10,278.42				2,569.60		12,848.02
	Real Time Supplemental Reserve Amount	55500-0074		(568.85)		-		(350.41)		-	(87.60)	(438.01)
	Supplemental Reserve Cost Distribution Amount	55500-0075		1,653.99		1,018.86				254.71		1,273.57
	Subtotal			(41,009.26)		468,803		48,131.56		118,097	12,032.89	118,097
Grand Total				3,079,225.54		468,803		3,084,183.83		118,097	771,045.96	(281,209.27)

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 Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation,

MINNESOTA POWER		Account Number	July 2020	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
MISO MONTHLY ALLOCATION			July 2020	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	55500-0027	5,065,384.54 (4,990,627.96)												
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	55500-0050	216,055.23												
Excessive Energy Amount	55500-0066		11,826.30												
Non-Excessive Energy Amount	55500-0069		316,799.32												
Real Time Non-Asset Energy	55500-0043		102,338.08												
Subtotal			721,775.51	34,338				44,090				109,265			
Day Ahead and Real Time Energy Loss															
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	55500-0022	769,603.23 627,104.06		32,351.28 26,224.40		-								
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	55500-0041	43,395.55 (100,722.74)		1,824.19		-				(4,212.05)				
Real Time Financial Bilateral Transaction Loss	55500-0038		-		-		-				-				
Subtotal			1,339,380.10	34,338	60,399.87	34,338	(4,212.05)	44,090	-	44,090	-	109,265	-	109,265	-
Virtual Energy															
Day Ahead Virtual Energy	55500-0030		-												
Real Time Virtual Energy	55500-0049		-	34,338		34,338		44,090		44,090		109,265		109,265	
Subtotal			-	34,338	-	34,338	-	44,090	-	44,090	-	109,265	-	109,265	-
Schedule 16 & 17 - 1/															
Day Ahead Market Administration (Schedule 17)	55500-0020		118,677.22		4,962.87		-								
Real Time Market Administration (Schedule 17)	55500-0036		13,765.37		575.64		-								
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		4,737.03		198.09		-								
Subtotal			137,179.62	34,338	5,736.61	34,338	-	44,090	-	44,090	-	109,265	-	109,265	-
Congestion, FTRs & ARRs															
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	55500-0021	1,018,841.02		42,828.32		-								
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	55500-0037	133,619.17 726,410.00		5,616.86 30,377.20		-								
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		-		-		-								
Real Time Financial Bilateral Transaction Congestion	55500-0037		-		-		-								
Auction Revenue Rights Transaction Amount	55500-0058		(194,393.94)		-		(8,129.22)								
Financial Transmission Rights Annual Transaction Amount	55500-0059		234,634.98		9,812.03		-								
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		1,816.12		75.95		-								
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(72,349.88)		-		(3,025.55)								
Financial Transmission Rights Hourly Allocation	55500-0032		(807,425.50)		-		(33,765.13)								
Financial Transmission Rights Monthly Allocation	55500-0033		(13,633.68)		-		(570.14)								
Financial Transmission Rights Yearly Allocation	55500-0035		-		-		-								
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(26,697.61)		-		(1,116.45)								
FTR Guarantee Uplift Amount	55500-0055		24,978.66		1,044.56		-								
Financial Transmission Rights Monthly Transaction Amount	55500-0056		56,537.35		2,364.29		-								
Financial Transmission Rights Transaction	55500-0034		-		-		-								
Subtotal			1,082,336.69	34,338	92,119.21	34,338	(46,606.47)	44,090	-	44,090	-	109,265	-	109,265	-
RSG & Make Whole Payments															
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		11,057.90		462.42		-								
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(38,797.54)		-		(1,622.45)								
Real Time Price Volatility Make Whole Payment	55500-0057		(3,096.88)		-		(129.51)								
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		64,509.69		2,697.68		-								
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		(449,735.08)		-		(18,807.14)								
Subtotal			(416,061.91)	34,338	3,160.10	34,338	(20,559.09)	44,090	-	44,090	-	109,265	-	109,265	-
RNU & Misc Charges															
Real Time Miscellaneous	55500-0042		141,259.96		5,907.25		-								
Real Time Net Inadvertent Distribution	55500-0044		71,162.65		2,975.90		-								
Real Time Revenue Neutrality Uplift Amount	55500-0045		27,111.29		1,133.75		-								
Real Time Uninstructed Deviation	55500-0048		-		-		-								
Demand Response Allocation Uplift Amount	55500-0077		-		-		-								
Day Ahead Ramps Capability Amount	55500-0079		(622.24)		-		(144.61)								
Real Time Ramps Capability Amount	55500-0080		(36.47)		-		(1.53)								
Real Time Schedule 49 Cost Distribution Amount	55500-0081		16,749.40		700.43		-								
Subtotal			255,624.59	34,338	10,717.32	34,338	(146.14)	44,090	-	44,090	-	109,265	-	109,265	-
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			-	34,338	-	34,338	-	44,090	-	44,090	-	109,265	-	109,265	-
ASM Charge Types (12 Other)															
Day Ahead Regulation Amount	55500-0062		(67,125.35)		-		(2,807.07)								
Day Ahead Spinning Reserve Amount	55500-0063		(50,396.97)		-		(2,107.51)								
Day Ahead Supplemental Reserve Amount	55500-0064		(12,29)		-		(0.51)								
Contingency Reserve Deployment Failure Charge Amount	55500-0065		-		-		-								
Net Regulation Adjustment Amount	55500-0068		1,882.68		78.73		-								
Real Time Regulation Amount	55500-0070		20,604.20		861.63		-								
Regulation Reserve Cost Distribution Amount	55500-0071		20,531.88		858.61		-								
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		16,777.16		701.59		-								
Real Time Spinning Reserve Amount	55500-0072		(1,041.45)		-		(43.55)								
Spinning Reserve Cost Distribution Amount	55500-0073		16,685.74		697.77		-								
Real Time Supplemental Reserve Amount	55500-0074		(568.85)		-		(23.79)								
Supplemental Reserve Cost Distribution Amount	55500-0075		1,653.99		69.17		-								
Subtotal			(41,009.26)	34,338	3,267.50	34,338	(4,982.43)	44,090	-	44,090	-	109,265	-	109,265	-
Grand Total			3,079,225.34	34,338	175,400.62	34,338	(76,506.18)	44,090	-	44,090	-	109,265	-	109,265	-

MINNESOTA POWER		Account	July 2020				Contract Sales		
MISO MONTHLY ALLOCATION		Number	Others - Non-Liquidation				Contract Sales		
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Revenue
Day Ahead and Real Time Energy									
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050		5,065,384.54						
Day Ahead Non-Asset Energy	55500-0027		(4,990,627.96)						
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		216,055.23						
Excessive Energy Amount	55500-0066		11,826.30						
Non-Excessive Energy Amount	55500-0069		316,799.32						
Real Time Non-Asset Energy	55500-0043		102,338.08						
Subtotal			721,775.51	104,390			126,504		
Day Ahead and Real Time Energy Loss									
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		769,603.23	98,349.52		-	46,985.93		-
Day Ahead Financial Bilateral Transaction Loss	55500-0022		627,104.06	79,723.49		-	38,286.05		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		43,395.55	5,545.63		-	2,649.39		-
Real Time Distribution of Losses	55500-0041		(100,722.74)	-		(12,804.84)	-		(6,149.34)
Real Time Financial Bilateral Transaction Loss	55500-0038		-	-		-	-		-
Subtotal			1,339,380.10	104,390	183,618.63	104,390	(12,804.84)	126,504	87,921.37
Virtual Energy									
Day Ahead Virtual Energy	55500-0030		-						
Real Time Virtual Energy	55500-0049		-						
Subtotal			-	104,390	-	104,390	-	126,504	-
Schedule 16 & 17 - 1/									
Day Ahead Market Administration (Schedule 17)	55500-0020		118,677.22	15,087.39		-	7,245.50		-
Real Time Market Administration (Schedule 17)	55500-0036		13,765.37	1,749.99		-	840.41		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		4,737.03	602.22		-	289.21		-
Subtotal			137,179.62	104,390	17,439.59	104,390	-	126,504	8,375.11
Congestion, FTRs & ARR									
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		1,018,841.02	130,200.24		-	62,202.43		-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		133,619.17	17,075.53		-	8,157.74		-
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		726,410.00	92,348.21		-	44,348.89		-
Real Time Financial Bilateral Transaction Congestion	55500-0037		-	-		-	-		-
Auction Revenue Rights Transaction Amount	55500-0058		(194,393.94)	-		(24,713.22)	-		(11,868.17)
Financial Transmission Rights Annual Transaction Amount	55500-0059		234,634.98	29,829.05		-	14,324.97		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		1,816.12	230.88		-	110.88		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(72,349.88)	-		(9,197.81)	-		(4,417.12)
Financial Transmission Rights Hourly Allocation	55500-0032		(807,425.50)	-		(102,647.68)	-		(49,295.06)
Financial Transmission Rights Monthly Allocation	55500-0033		(13,633.68)	-		(1,733.24)	-		(832.37)
Financial Transmission Rights Yearly Allocation	55500-0035		-	-		-	-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(26,697.61)	-		(3,394.06)	-		(1,629.95)
FTR Guarantee Uplift Amount	55500-0055		24,978.66	3,175.53		-	1,525.00		-
Financial Transmission Rights Monthly Transaction Amount	55500-0056		56,537.35	7,187.57		-	3,451.73		-
Financial Transmission Rights Transaction	55500-0034		-	-		-	-		-
Subtotal			1,082,336.69	104,390	280,047.00	104,390	(141,686.01)	126,504	134,121.63
RSG & Make Whole Payments									
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		11,057.90	1,405.79		-	675.11		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(38,797.54)	-		(4,932.32)	-		(2,368.67)
Real Time Price Volatility Make Whole Payment	55500-0057		(3,096.88)	-		(393.71)	-		(189.07)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		64,509.69	8,201.09		-	3,938.46		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		(449,735.08)	-		(57,174.64)	-		(27,457.29)
Subtotal			(416,061.91)	104,390	9,606.88	104,390	(62,500.66)	126,504	4,613.56
RNU & Misc Charges									
Real Time Miscellaneous	55500-0042		141,259.96	17,958.32		-	8,624.22		-
Real Time Net Inadvertent Distribution	55500-0044		71,162.65	9,046.88		-	4,344.63		-
Real Time Revenue Neutrality Uplift Amount	55500-0045		27,111.29	3,446.65		-	1,655.20		-
Real Time Uninstructed Deviation	55500-0048		-	-		-	-		-
Demand Response Allocation Uplift Amount	55500-0077		-	-		-	-		-
Day Ahead Ramp Capability Amount	55500-0079		(62.24)	-		(439.64)	-		(37.99)
Real Time Ramp Capability Amount	55500-0080		(36.47)	-		(4.64)	-		(2.23)
Real Time Schedule 49 Cost Distribution Amount	55500-0081		16,749.40	2,129.34		-	1,022.59		-
Subtotal			255,624.59	104,390	32,581.19	104,390	(444.27)	126,504	15,646.65
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			-	104,390	-	104,390	-	126,504	-
ASM Charge Types (12 Other)									
Day Ahead Regulation Amount	55500-0062		(67,125.35)	-		(8,533.62)	-		(4,098.15)
Day Ahead Spinning Reserve Amount	55500-0063		(50,396.97)	-		(6,406.95)	-		(3,076.84)
Day Ahead Supplemental Reserve Amount	55500-0064		(12.29)	-		(1.56)	-		(0.75)
Contingency Reserve Deployment Failure Charge Amount	55500-0065		-	-		-	-		-
Net Regulation Adjustment Amount	55500-0068		1,882.68	239.34		-	114.94		-
Real Time Regulation Amount	55500-0070		20,604.20	2,619.40		-	1,257.93		-
Regulation Reserve Cost Distribution Amount	55500-0071		20,531.88	2,610.21		-	1,253.52		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		16,777.16	2,132.87		-	1,024.28		-
Real Time Spinning Reserve Amount	55500-0072		(1,041.45)	-		(132.40)	-		(63.58)
Spinning Reserve Cost Distribution Amount	55500-0073		16,885.74	2,121.25		-	1,018.70		(34.73)
Real Time Supplemental Reserve Amount	55500-0074		(568.85)	-		(72.32)	-		-
Supplemental Reserve Cost Distribution Amount	55500-0075		1,653.99	210.27		-	100.98		-
Subtotal			(41,009.26)	104,390	9,933.35	104,390	(15,146.84)	126,504	4,770.35
Grand Total			3,079,225.34	104,390	533,226.65	104,390	(232,582.63)	126,504	255,448.67

MINNESOTA POWER			FPE Retail				FAC Resale				Subtotal FPE and FAC		
MISO MONTHLY ALLOCATION			Mwh				Mwh				Cost/(Revenue)		
			Cost		Revenue		Cost		Revenue				
Day Ahead and Real Time Energy													
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	6,584,901.64										
5	Day Ahead Non-Asset Energy	55500-0027	(4,876,693.79)										
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	981,752.40										
	Excessive Energy Amount	55500-0066	(775.23)										
	Non-Excessive Energy Amount	55500-0069	232,924.36										
22	Real Time Non-Asset Energy	55500-0043	(689,876.40)										
	Subtotal		2,232,226.98		613.667	1,743,247.65		613.667	112.596	332,047.17		2,075,294.82	
Day Ahead and Real Time Energy Loss													
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	690,675.92										
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	367,574.47			475,546.67				90,580.32		566,126.98	
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(26,477.42)			-				-	(3,472.44)	(21,702.77)	
14	Real Time Distribution of Losses	55500-0041	(135,074.62)			-				-	(17,721.79)	(110,761.19)	
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-			-				-	-	-	
	Subtotal		896,698.35		613.667	728,731.96	613.667	(111,269.73)	112.596	138,806.09	112.596	(21,194.23)	735,074.09
Virtual Energy													
12	Day Ahead Virtual Energy	55500-0030	-			-				-		-	
27	Real Time Virtual Energy	55500-0049	-			-				-		-	
	Subtotal		-		613.667	-	613.667	-	112.596	-	112.596	-	-
Schedule 16 & 17 - 1/													
4	Day Ahead Market Administration (Schedule 17)	55500-0020	125,270.20			86,286.11				16,435.45		102,721.56	
19	Real Time Market Administration (Schedule 17)	55500-0036	10,890.45			7,501.34				1,428.83		8,930.17	
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	4,311.44			2,969.72				565.66		3,535.38	
	Subtotal		140,472.09		613.667	96,757.18	613.667	-	112.596	18,429.94	112.596	-	115,187.11
Congestion, FTRs & ARRs													
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	1,396,496.76			961,520.96				183,146.85		1,144,667.81	
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(471,481.75)			-				-	(61,833.58)	(386,459.89)	
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	409,752.63			282,237.61				53,759.55		335,997.16	
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-			-				-		-	
	Auction Revenue Rights Transaction Amount	55500-0058	(194,393.94)			-				-	(25,504.48)	(159,403.03)	
	Financial Transmission Rights Annual Transaction Amount	55500-0059	234,634.98			161,616.57				30,784.11		192,400.68	
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	1,811.36			1,247.66				237.65		1,485.32	
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(72,066.43)			-				-	(9,455.12)	(59,094.47)	
28	Financial Transmission Rights Hourly Allocation	55500-0032	(1,294,518.51)			-				-	(169,840.83)	(1,061,505.18)	
30	Financial Transmission Rights Monthly Allocation	55500-0033	(40,185.77)			-				-	(5,272.37)	(32,952.33)	
32	Financial Transmission Rights Yearly Allocation	55500-0035	-			-				-	-	-	
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(83,817.69)			-				-	(10,996.88)	(68,730.51)	
	FTR Guarantee Uplift Amount	55500-0055	83,817.99			57,733.83				10,996.92		68,730.75	
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	39,115.56			26,942.80				5,131.96		32,074.76	
31	Financial Transmission Rights Transaction	55500-0034	-			-				-		-	
	Subtotal		9,165.19		613.667	1,491,299.44	613.667	(1,485,242.14)	112.596	284,057.04	112.596	(282,903.27)	7,211.07
RSG & Make Whole Payments													
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	13,590.70			9,361.27				1,783.10		11,144.37	
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(12,861.32)			-				-	(1,687.41)	(10,546.28)	
	Real Time Price Volatility Make Whole Payment	55500-0057	(1,757.60)			-				-	(230.60)	(1,441.23)	
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	33,881.74			23,337.74				4,445.28		27,783.03	
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	42,818.60			29,493.45				5,617.80		62,051.14	
	Subtotal		75,672.12		613.667	62,192.47	613.667	(10,069.51)	112.596	11,846.18	112.596	(1,918.00)	62,051.14
RNU & Misc Charges													
20	Real Time Miscellaneous	55500-0042	552.64			380.66				72.51		453.16	
21	Real Time Net Inadvertent Distribution	55500-0044	19,583.66			13,489.23				2,569.38		16,058.60	
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	43,407.36			29,898.99				5,695.05		35,594.04	
26	Real Time Uninstructed Deviation	55500-0048	-			-				-		-	
27	Demand Response Allocation Uplift Amount	55500-0077	-			-				-		-	
33	Day Ahead Ramp Capability Amount	55500-0078	(194,739)			-				-		-	
34	Real Time Ramp Capability Amount	55500-0080	(35.00)			-				-		-	
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	11,601.15			7,990.87				1,522.07		9,512.94	
	Subtotal		74,924.93		613.667	51,759.75	613.667	(24.17)	112.596	9,859.00	112.596	(4.60)	61,589.97
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		-		613.667	-	613.667	-	112.596	-	112.596	-	-
ASM Charge Types (12 Other)													
	Day Ahead Regulation Amount	55500-0062	(79,146.57)			-				-	(10,384.03)	(64,900.19)	
	Day Ahead Spinning Reserve Amount	55500-0063	(62,776.54)			-				-	(8,236.28)	(51,476.76)	
	Day Ahead Supplemental Reserve Amount	55500-0064	(10.50)			-				-	(1.38)	(8.61)	
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	9.20			6.34				1.21		7.54	
	Net Regulation Adjustment Amount	55500-0068	1,286.16			885.91				168.74		1,054.65	
	Real Time Regulation Amount	55500-0070	21,118.80			14,546.63				2,770.79		17,317.42	
	Regulation Reserve Cost Distribution Amount	55500-0071	25,607.26			17,638.28				3,359.67		20,997.95	
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	27,443.92			18,303.37				3,600.64		22,504.01	
	Real Time Spinning Reserve Amount	55500-0072	19,749.97			13,603.78				2,591.20		16,194.98	
	Spinning Reserve Cost Distribution Amount	55500-0073	20,905.39			14,399.63				2,742.79		17,142.42	
	Real Time Supplemental Reserve Amount	55500-0074	36.46			25.11				4.78		29.90	
	Supplemental Reserve Cost Distribution Amount	55500-0075	3,365.50			2,318.16				441.55		2,759.71	
	Subtotal		(22,410.95)		613.667	82,327.21	613.667	(97,763.87)	112.596	15,681.37	112.596	(18,621.69)	(18,376.98)
	Grand Total		3,406,748.71		613.667	4,256,315.65	613.667	(1,704,369.42)	112.596	810,726.79	112.596	(324,641.80)	3,038,031.23

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

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-

MINNESOTA POWER

		Account	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
MISO MONTHLY ALLOCATION		Number	August 2020											
			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		6,584,901.64											
Day Ahead Non-Asset Energy	55500-0027		(4,876,699.79)											
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		981,752.40											
Excessive Energy Amount	55500-0066		(775.23)											
Non-Excessive Energy Amount	55500-0069		232,324.36											
Real Time Non-Asset Energy	55500-0043		(889,876.40)											
Subtotal			2,232,226.98	15,775				63,603				37,560		
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		690,675.92		11,913.78	-								
Day Ahead Financial Bilateral Transaction Loss	55500-0022		367,574.47		6,324.47	-								
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		(26,477.42)		-	(456.72)								
Real Time Distribution of Losses	55500-0041		(135,074.62)		-	(2,324.09)								
Real Time Financial Bilateral Transaction Loss	55500-0038		-		-	-								
Subtotal			896,698.35	15,775	18,238.25	15,775	(2,780.81)	63,603	-	63,603	-	37,560	-	37,560
Virtual Energy														
Day Ahead Virtual Energy	55500-0030		-											
Real Time Virtual Energy	55500-0049		-											
Subtotal			-	15,775	-	15,775	-	63,603	-	63,603	-	37,560	-	37,560
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020		125,270.20		2,155.39	-								
Real Time Market Administration (Schedule 17)	55500-0036		10,890.45		187.38	-								
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		4,311.44		74.18	-								
Subtotal			140,472.09	15,775	2,416.96	15,775	-	63,603	-	63,603	-	37,560	-	37,560
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		1,396,496.76		24,088.79	-								
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(471,481.75)		-	(8,132.80)								
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		409,752.63		7,050.19	-								
Real Time Financial Bilateral Transaction Congestion	55500-0037		-		-	-								
Auction Revenue Rights Transaction Amount	55500-0058		(194,393.94)		-	(3,344.74)								
Financial Transmission Rights Annual Transaction Amount	55500-0059		234,634.98		4,037.12	-								
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		1,811.36		31.17	-								
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(72,066.43)		-	(1,239.97)								
Financial Transmission Rights Hourly Allocation	55500-0032		(1,294,518.51)		-	(22,273.44)								
Financial Transmission Rights Monthly Allocation	55500-0033		(40,185.77)		-	(691.43)								
Financial Transmission Rights Yearly Allocation	55500-0035		-		-	-								
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(83,817.69)		-	(1,442.16)								
FTR Guarantee Uplift Amount	55500-0055		83,817.99		1,442.17	-								
Financial Transmission Rights Monthly Transaction Amount	55500-0056		39,115.56		673.02	-								
Financial Transmission Rights Transaction	55500-0034		-		-	-								
Subtotal			9,165.19	15,775	37,322.46	15,775	(37,124.54)	63,603	-	63,603	-	37,560	-	37,560
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		13,590.70		233.84	-								
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(12,861.32)		-	(221.29)								
Real Time Price Volatility Make Whole Payment	55500-0057		(1,757.60)		-	(30.24)								
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		33,881.74		582.97	-								
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		42,818.60		736.74	-								
Subtotal			75,672.12	15,775	1,553.54	15,775	(251.53)	63,603	-	63,603	-	37,560	-	37,560
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042		562.64		9.51	-								
Real Time Net Inadvertent Distribution	55500-0044		19,583.66		336.96	-								
Real Time Revenue Neutrality Uplift Amount	55500-0045		43,407.36		746.87	-								
Real Time Uninstructed Deviation	55500-0048		-		-	-								
Demand Response Allocation Uplift Amount	55500-0077		-		-	-								
Day Ahead Ramp Capability Amount	55500-0079		(194.79)		-	(23.20)								
Real Time Ramp Capability Amount	55500-0080		(36.09)		-	(0.60)								
Real Time Schedule 49 Cost Distribution Amount	55500-0081		11,601.15		199.61	-								
Subtotal			74,924.93	15,775	1,292.94	15,775	(23.81)	63,603	-	63,603	-	37,560	-	37,560
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			-	15,775	-	15,775	-	63,603	-	63,603	-	37,560	-	37,560
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062		(79,146.57)		-	(1,361.79)								
Day Ahead Spinning Reserve Amount	55500-0063		(62,776.54)		-	(1,080.13)								
Day Ahead Supplemental Reserve Amount	55500-0064		(10.50)		-	(0.18)								
Contingency Reserve Deployment Failure Charge Amount	55500-0065		9.20		0.16	-								
Net Regulation Adjustment Amount	55500-0068		1,286.16		22.13	-								
Real Time Regulation Amount	55500-0070		21,118.80		363.37	-								
Regulation Reserve Cost Distribution Amount	55500-0071		25,607.26		440.60	-								
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		27,443.92		472.20	-								
Real Time Spinning Reserve Amount	55500-0072		19,749.97		339.82	-								
Spinning Reserve Cost Distribution Amount	55500-0073		20,906.39		359.70	-								
Real Time Supplemental Reserve Amount	55500-0074		36.46		0.63	-								
Supplemental Reserve Cost Distribution Amount	55500-0075		3,365.50		57.91	-								
Subtotal			(22,410.95)	15,775	2,056.50	15,775	(2,442.10)	63,603	-	63,603	-	37,560	-	37,560
Grand Total			3,406,748.71	15,775	62,880.65	15,775	(42,622.79)	63,603	-	63,603	-	37,560	-	37,560

MINNESOTA POWER		Account	August 2020				Contract Sales		
MISO MONTHLY ALLOCATION		Number	Others - Non-Liquidation				Contract Sales		
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Revenue
Day Ahead and Real Time Energy									
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050		6,584,901.64						
Day Ahead Non-Asset Energy	55500-0027		(4,876,699.79)						
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		981,752.40						
Excessive Energy Amount	55500-0066		(775.23)						
Non-Excessive Energy Amount	55500-0069		232,324.36						
Real Time Non-Asset Energy	55500-0043		(689,876.40)						
Subtotal			2,232,226.98		103,608			116,774	
Day Ahead and Real Time Energy Loss									
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		690,675.92	78,250.30		-	34,384.86		-
Day Ahead Financial Bilateral Transaction Loss	55500-0022		367,574.47	41,539.47		-	18,299.46		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		(26,477.42)	-		(2,999.77)	-		(1,318.16)
Real Time Distribution of Losses	55500-0041		(135,074.62)	-		(15,264.74)	-		(6,724.60)
Real Time Financial Bilateral Transaction Loss	55500-0038		-	-		-	-		-
Subtotal			896,698.35	103,608	119,789.77	103,608	(18,264.50)	116,774	52,684.32
Virtual Energy									
Day Ahead Virtual Energy	55500-0030		-						
Real Time Virtual Energy	55500-0049		-						
Subtotal			-	103,608	-	103,608	-	116,774	-
Schedule 16 & 17 - 1/									
Day Ahead Market Administration (Schedule 17)	55500-0020		125,270.20	14,156.74		-	6,236.50		-
Real Time Market Administration (Schedule 17)	55500-0036		10,890.45	1,230.73		-	542.17		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		4,311.44	487.23		-	214.64		-
Subtotal			140,472.09	103,608	15,874.71	103,608	-	116,774	6,993.31
Congestion, FTRs & ARRs									
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		1,396,496.76	158,216.45		-	69,523.70		-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(471,481.75)	-		(53,416.64)	-		(23,472.42)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		409,752.63	46,306.01		-	20,399.27		-
Real Time Financial Bilateral Transaction Congestion	55500-0037		-	-		-	-		-
Auction Revenue Rights Transaction Amount	55500-0058		(194,393.94)	-		(21,968.40)	-		(9,677.78)
Financial Transmission Rights Annual Transaction Amount	55500-0059		234,634.98	26,516.02		-	11,681.15		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		1,811.36	204.70		-	90.18		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(72,066.43)	-		(8,144.20)	-		(3,587.78)
Financial Transmission Rights Hourly Allocation	55500-0032		(1,294,518.51)	-		(146,293.11)	-		(64,446.78)
Financial Transmission Rights Monthly Allocation	55500-0033		(40,185.77)	-		(4,541.38)	-		(2,000.62)
Financial Transmission Rights Yearly Allocation	55500-0035		-	-		-	-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(83,817.69)	-		(9,472.21)	-		(4,172.81)
FTR Guarantee Uplift Amount	55500-0055		83,817.99	9,472.24		-	4,172.83		-
Financial Transmission Rights Monthly Transaction Amount	55500-0056		39,115.56	4,420.44		-	1,947.34		-
Financial Transmission Rights Transaction	55500-0034		-	-		-	-		-
Subtotal			9,165.19	103,608	245,135.87	103,608	(243,835.95)	116,774	107,814.47
RSG & Make Whole Payments									
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		13,590.70	1,535.88		-	676.60		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(12,861.32)	-		(1,453.45)	-		(840.29)
Real Time Price Volatility Make Whole Payment	55500-0057		(1,757.60)	-		(198.63)	-		(87.50)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		33,881.74	3,828.96		-	1,686.78		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		42,818.60	4,838.92		-	2,131.70		-
Subtotal			75,672.12	103,608	10,203.76	103,608	(1,652.08)	116,774	4,495.08
RNU & Misc Charges									
Real Time Miscellaneous	55500-0042		552.64	62.45		-	27.51		-
Real Time Net Inadvertent Distribution	55500-0044		19,583.66	2,213.14		-	974.96		-
Real Time Revenue Neutrality Uplift Amount	55500-0045		43,407.36	4,905.45		-	2,161.01		-
Real Time Uninstructed Deviation	55500-0048		-	-		-	-		-
Demand Response Allocation Uplift Amount	55500-0077		-	-		-	-		-
Day Ahead Ramp Capability Amount	55500-0079		(194.79)	-		(152.39)	-		(9.20)
Real Time Ramp Capability Amount	55500-0080		(35.09)	-		(3.97)	-		(1.75)
Real Time Schedule 49 Cost Distribution Amount	55500-0081		11,601.15	1,311.04		-	577.56		-
Subtotal			74,924.93	103,608	8,492.09	103,608	(156.35)	116,774	3,741.04
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			-	103,608	-	103,608	-	116,774	-
ASM Charge Types (12 Other)									
Day Ahead Regulation Amount	55500-0062		(79,146.57)	-		(8,944.33)	-		(3,940.26)
Day Ahead Spinning Reserve Amount	55500-0063		(62,776.54)	-		(7,094.36)	-		(3,125.29)
Day Ahead Supplemental Reserve Amount	55500-0064		(10.50)	-		(1.19)	-		(0.52)
Contingency Reserve Deployment Failure Charge Amount	55500-0065		9.20	1.04		-	0.46		-
Net Regulation Adjustment Amount	55500-0068		1,286.16	145.35		-	64.03		-
Real Time Regulation Amount	55500-0070		21,118.80	2,386.63		-	1,051.39		-
Regulation Reserve Cost Distribution Amount	55500-0071		25,607.26	2,893.87		-	1,274.84		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		27,443.92	3,101.43		-	1,366.28		-
Real Time Spinning Reserve Amount	55500-0072		19,749.97	2,231.94		-	993.24		-
Spinning Reserve Cost Distribution Amount	55500-0073		20,905.39	2,362.51		-	1,040.76		-
Real Time Supplemental Reserve Amount	55500-0074		36.46	4.12		-	1.82		-
Supplemental Reserve Cost Distribution Amount	55500-0075		3,365.50	380.33		-	167.55		-
Subtotal			(22,410.95)	103,608	13,507.22	103,608	(16,039.87)	116,774	5,950.36
Grand Total			3,406,748.71	103,608	413,003.42	103,608	(279,948.76)	116,774	181,678.59

MINNESOTA POWER			Account	FPE Retail				FAC Resale				Subtotal FPE and FAC	
MISO MONTHLY ALLOCATION			Number	September 2020	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	6,582,400.76										-
5	Day Ahead Non-Asset Energy	55500-0027	(4,471,391.84)										-
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	324,873.58										-
	Excessive Energy Amount	55500-0066	2,260.89										-
	Non-Excessive Energy Amount	55500-0069	54,726.74										-
22	Real Time Non-Asset Energy	55500-0043	(157,882.09)										-
	Subtotal		2,335,008.04		574,142	1,281,723.94			96,907	208,652.74			1,490,376.68
Day Ahead and Real Time Energy Loss													
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	581,077.98										422,454.48
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	577,818.82			363,310.85	-		59,143.63				421,807.74
	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	23,143.96			14,470.44	-		2,355.65				16,826.09
14	Real Time Distribution of Losses	55500-0041	(159,475.16)			-	(100,118.51)		-		(16,298.36)		(116,416.87)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-			-	-		-		(16,298.36)		-
	Subtotal		1,022,565.60		574,142	740,535.95	574,142	(100,118.51)	96,907	120,552.36	96,907	(16,298.36)	744,671.44
Virtual Energy													
12	Day Ahead Virtual Energy	55500-0030	-			-	-		-		-	-	-
27	Real Time Virtual Energy	55500-0049	-			-	-		-		-	-	-
	Subtotal		-		574,142	-	574,142	-	96,907	-	96,907	-	-
Schedule 16 & 17 - 1/													
4	Day Ahead Market Administration (Schedule 17)	55500-0020	131,352.89			82,463.34	-		13,424.27		-		95,887.61
19	Real Time Market Administration (Schedule 17)	55500-0036	13,135.54			8,246.49	-		1,342.45		-		9,588.94
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	5,034.61			3,160.73	-		514.54		-		3,675.27
	Subtotal		149,523.04		574,142	93,870.56	574,142	-	96,907	15,281.25	96,907	-	109,151.82
Congestion, FTRs & ARRs													
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	272,725.97			170,518.09	-		27,758.76		-		198,276.85
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(102,552.47)			-	(64,119.49)		-		(10,438.06)		(74,557.55)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	949,660.04			596,196.57	-		97,056.26		-		693,251.83
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-			-	-		-		-		-
	Auction Revenue Rights Transaction Amount	55500-0058	(175,010.33)			-	(109,871.49)		-		(17,886.06)		(127,757.54)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	280,940.87			176,374.68	-		28,712.16		-		205,086.84
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	2,541.61			1,595.62	-		259.75		-		1,855.38
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(72,508.66)			-	(45,520.94)		-		(7,410.39)		(52,931.32)
28	Financial Transmission Rights Hourly Allocation	55500-0032	(458,792.02)			-	(288,029.63)		-		(46,888.54)		(334,918.17)
30	Financial Transmission Rights Monthly Allocation	55500-0033	(126,559.88)			-	(79,454.29)		-		(12,934.42)		(82,388.71)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-			-	-		-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	61,956.48			38,896.28	-		6,331.95		-		45,228.23
	FTR Guarantee Uplift Amount	55500-0055	(61,956.48)			-	(38,896.27)		-		(6,331.95)		(45,228.22)
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	38,208.25			23,987.14	-		3,904.88		-		27,892.02
31	Financial Transmission Rights Transaction	55500-0034	-			-	-		-		-		-
	Subtotal		608,653.40		574,142	1,007,568.38	574,142	(625,892.10)	96,907	164,022.76	96,907	(101,889.41)	443,809.62
RSG & Make Whole Payments													
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	29,204.96			18,334.87	-		2,984.75		-		21,319.62
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(21,971.83)			-	(13,793.91)		-		(2,245.52)		(16,039.44)
	Real Time Price Volatility Make Whole Payment	55500-0057	(1,562.39)			-	(980.87)		-		(159.68)		(1,140.54)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	25,809.79			16,203.39	-		2,637.76		-		18,841.15
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(33,960.20)			-	(21,320.21)		-		(3,470.73)		(24,790.95)
	Subtotal		(2,479.67)		574,142	34,538.26	574,142	(36,095.00)	96,907	5,622.51	96,907	(5,875.93)	(1,810.16)
RNU & Misc Charges													
20	Real Time Miscellaneous	55500-0042	(3,805.09)			-	(2,388.84)		-		(388.88)		(2,777.72)
21	Real Time Net Inadvertent Distribution	55500-0044	(65,564.02)			-	(41,161.09)		-		(6,700.64)		(47,861.73)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	1,409,705.86			885,013.34	-		144,071.94		-		1,029,085.28
26	Real Time Uninstructed Deviation	55500-0048	-			-	-		-		-		-
27	Demand Response Allocation Uplift Amount	55500-0077	247.14			155.15	-		25.26		-		180.41
33	Day Ahead Ramp Capability Amount	55500-0078	(186.29)			-	-		-		-		-
34	Real Time Ramp Capability Amount	55500-0080	2.89			1.81	-		0.30		-		2.11
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	12,894.77			8,095.34	-		1,317.85		-		9,413.18
	Subtotal		1,353,295.26		574,142	893,265.64	574,142	(43,549.93)	96,907	145,415.34	96,907	(7,089.52)	988,041.53
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		-		574,142	-	574,142	-	96,907	-	96,907	-	-
ASM Charge Types (12 Other)													
	Day Ahead Regulation Amount	55500-0062	(56,568.75)			-	(35,113.86)		-		(5,781.33)		(41,295.19)
	Day Ahead Spinning Reserve Amount	55500-0063	(26,868.52)			-	(16,888.06)		-		(2,745.96)		(19,814.02)
	Day Ahead Supplemental Reserve Amount	55500-0064	(372.44)			-	(233.82)		-		(38.06)		(271.88)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-			-	-		-		-		-
	Net Regulation Adjustment Amount	55500-0068	655.46			411.50	-		66.99		-		478.49
	Real Time Regulation Amount	55500-0070	16,709.76			10,490.39	-		1,707.74		-		12,198.12
	Regulation Reserve Cost Distribution Amount	55500-0071	27,152.18			17,046.14	-		2,774.95		-		19,821.09
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	20,475.42			12,854.47	-		2,092.59		-		14,947.06
	Real Time Spinning Reserve Amount	55500-0072	14,075.26			8,836.45	-		1,438.49		-		10,274.94
	Spinning Reserve Cost Distribution Amount	55500-0073	14,421.46			9,053.79	-		1,473.87		-		10,527.67
	Real Time Supplemental Reserve Amount	55500-0074	237.84			149.32	-		24.31		-		173.62
	Supplemental Reserve Cost Distribution Amount	55500-0075	3,016.55			1,893.79	-		308.29		-		2,202.08
	Subtotal		12,934.22		574,142	60,735.84	574,142	(52,615.74)	96,907	9,887.23	96,907	(8,565.35)	9,441.98
Grand Total			5,479,499.89		574,142	4,112,238.58	574,142	(858,271.27)	96,907	669,434.19	96,907	(139,718.58)	3,783,682.92

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 Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation.

MINNESOTA POWER		Account	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation				
MISO MONTHLY ALLOCATION			September 2020												
	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														
Day Ahead Non-Asset Energy	55500-0027		6,582,400.76	(4,471,391.84)											
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050														
Excessive Energy Amount	55500-0066		324,873.58												
Non-Excessive Energy Amount	55500-0069		2,260.89												
Real Time Non-Asset Energy	55500-0043		54,726.74	(157,862.09)											
Subtotal			2,335,008.04		11,867				56,456				43,290		
Day Ahead and Real Time Energy Loss															
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050														
Day Ahead Financial Bilateral Transaction Loss	55500-0022		581,077.98	7,464.85											
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		577,818.82	7,325.64											
Real Time Distribution of Losses	55500-0041		23,143.96	297.32											
Real Time Financial Bilateral Transaction Loss	55500-0038		(159,475.16)	-		(2,021.84)									
Subtotal			1,022,565.60	11,867	15,087.81	11,867	(2,021.84)		56,456	-	56,456	-	43,290	-	
Virtual Energy															
Day Ahead Virtual Energy	55500-0030														
Real Time Virtual Energy	55500-0049														
Subtotal			-	11,867	-	11,867	-		56,456	-	56,456	-	43,290	-	
Schedule 16 & 17 - 1/															
Day Ahead Market Administration (Schedule 17)	55500-0020		131,352.89	1,665.30											
Real Time Market Administration (Schedule 17)	55500-0036		13,135.54	166.53											
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		5,034.61	63.83											
Subtotal			149,523.04	11,867	1,895.67	11,867	-		56,456	-	56,456	-	43,290	-	
Congestion, FTRs & ARRs															
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050														
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		272,725.97	3,503.59											
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		(102,552.47)	-		(1,317.45)									
Real Time Financial Bilateral Transaction Congestion	55500-0037		949,660.04	12,039.88											
Auction Revenue Rights Transaction Amount	55500-0058		(175,010.33)	-		(2,218.80)									
Financial Transmission Rights Annual Transaction Amount	55500-0059		280,940.87	3,561.79											
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		2,541.61	32.22											
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(72,508.66)	-		(919.27)									
Financial Transmission Rights Hourly Allocation	55500-0032		(458,792.02)	-		(5,816.61)									
Financial Transmission Rights Monthly Allocation	55500-0033		(126,559.88)	-		(1,604.54)									
Financial Transmission Rights Yearly Allocation	55500-0035		-	-		-									
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		61,956.48	785.49											
FTR Guarantee Uplift Amount	55500-0055		(61,956.46)	-		(785.49)									
Financial Transmission Rights Monthly Transaction Amount	55500-0056		38,208.25	484.41											
Financial Transmission Rights Transaction	55500-0034		-	-		-									
Subtotal			608,653.40	11,867	20,407.38	11,867	(12,662.15)		56,456	-	56,456	-	43,290	-	
RSG & Make Whole Payments															
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		29,204.96	370.26											
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(21,971.83)	-		(278.56)									
Real Time Price Volatility Make Whole Payment	55500-0057		(1,562.39)	-		(19.81)									
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		25,809.79	327.22											
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		(33,960.20)	-		(430.55)									
Subtotal			(2,479.67)	11,867	697.48	11,867	(728.92)		56,456	-	56,456	-	43,290	-	
RNU & Misc Charges															
Real Time Miscellaneous	55500-0042		(3,805.09)	-		(48.24)									
Real Time Net Inadvertent Distribution	55500-0044		(65,564.02)	-		(831.23)									
Real Time Revenue Neutrality Uplift Amount	55500-0045		1,409,705.86	17,872.38											
Real Time Uninstructed Deviation	55500-0048		-	-		-									
Demand Response Allocation Uplift Amount	55500-0077		247.14	3.13											
Day Ahead Ramps Capability Amount	55500-0079		(186.29)	-		(10.05)									
Real Time Ramps Capability Amount	55500-0080		2.89	0.04											
Real Time Schedule 49 Cost Distribution Amount	55500-0081		12,894.77	163.48											
Subtotal			1,353,295.26	11,867	18,039.03	11,867	(889.51)		56,456	-	56,456	-	43,290	-	
Grandfathered Charge Types															
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023		-	-		-									
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024		-	-		-									
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025		-	-		-									
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026		-	-		-									
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040		-	-		-									
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039		-	-		-									
Subtotal			-	11,867	-	11,867	-		56,456	-	56,456	-	43,290	-	
ASM Charge Types (12 Other)															
Day Ahead Regulation Amount	55500-0062		(56,568.75)	-		(717.18)									
Day Ahead Spinning Reserve Amount	55500-0063		(28,868.52)	-		(340.64)									
Day Ahead Supplemental Reserve Amount	55500-0064		(372.44)	-		(4.72)									
Contingency Reserve Deployment Failure Charge Amount	55500-0065		-	-		-									
Net Regulation Adjustment Amount	55500-0068		655.46	8.31											
Real Time Regulation Amount	55500-0070		16,709.76	211.85											
Regulation Reserve Cost Distribution Amount	55500-0071		27,152.18	344.24											
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		20,475.42	259.59											
Real Time Spinning Reserve Amount	55500-0072		14,075.26	178.45											
Spinning Reserve Cost Distribution Amount	55500-0073		14,421.46	182.84											
Real Time Supplemental Reserve Amount	55500-0074		237.84	3.02											
Supplemental Reserve Cost Distribution Amount	55500-0075		3,016.55	38.24											
Subtotal			12,934.22	11,867	1,226.53	11,867	(1,062.55)		56,456	-	56,456	-	43,290	-	
Grand Total			5,479,499.89	11,867	57,353.91	11,867	(17,364.97)		56,456	-	56,456	-	43,290	-	

MINNESOTA POWER		Account	September 2020				Contract Sales			
MISO MONTHLY ALLOCATION		Number	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	6,582,400.76								
Day Ahead Non-Asset Energy	55500-0027	(4,471,391.84)								
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	324,873.58								
Excessive Energy Amount	55500-0066	2,260.89								
Non-Excessive Energy Amount	55500-0069	54,726.74								
Real Time Non-Asset Energy	55500-0043	(157,862.09)								
Subtotal		2,335,008.04	198,156					95,997		
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	581,077.98		124,643.43		-		26,515.21		-
Day Ahead Financial Bilateral Transaction Loss	55500-0022	577,818.82		122,318.95		-		26,366.49		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	23,143.96		4,964.47		-		1,056.08		-
Real Time Distribution of Losses	55500-0041	(159,475.16)		-		(33,759.43)		-		(7,277.02)
Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-
Subtotal		1,022,565.60	198,156	251,926.84	198,156	(33,759.43)		95,997	53,937.79	95,997
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	198,156	-	198,156	-		95,997	-	95,997
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	131,352.89		27,806.20		-		5,993.77		-
Real Time Market Administration (Schedule 17)	55500-0036	13,135.54		2,780.67		-		599.39		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	5,034.61		1,065.78		-		229.73		-
Subtotal		149,523.04	198,156	31,652.66	198,156	-		95,997	6,822.90	95,997
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	272,725.97		58,500.76		-		12,444.78		-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(102,552.47)		-		(21,997.89)		-		(4,679.58)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	949,660.04		201,034.32		-		43,334.01		-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-
Auction Revenue Rights Transaction Amount	55500-0058	(175,010.33)		-		(37,048.08)		-		(7,985.91)
Financial Transmission Rights Annual Transaction Amount	55500-0059	280,940.87		59,472.61		-		12,819.63		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	2,541.61		538.04		-		115.98		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(72,508.66)		-		(15,349.42)		-		(3,308.65)
Financial Transmission Rights Hourly Allocation	55500-0032	(458,792.02)		-		(97,122.06)		-		(20,935.17)
Financial Transmission Rights Monthly Allocation	55500-0033	(126,559.88)		-		(26,791.57)		-		(5,775.06)
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	61,956.48		13,115.62		-		2,827.14		-
FTR Guarantee Uplift Amount	55500-0055	(61,956.48)		-		(13,115.61)		-		(2,827.14)
Financial Transmission Rights Monthly Transaction Amount	55500-0056	38,208.25		8,088.34		-		1,743.48		-
Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-
Subtotal		608,653.40	198,156	340,749.68	198,156	(211,424.64)		95,997	73,285.02	95,997
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	29,204.96		6,182.42		-		1,332.65		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(21,971.83)		-		(4,651.23)		-		(1,002.60)
Real Time Price Volatility Make Whole Payment	55500-0057	(1,562.39)		-		(330.74)		-		(71.29)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	25,809.79		5,463.70		-		1,177.73		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(33,960.20)		-		(7,189.06)		-		(1,549.64)
Subtotal		(2,479.67)	198,156	11,646.12	198,156	(12,171.04)		95,997	2,510.38	95,997
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	(3,805.09)		-		(805.50)		-		(173.63)
Real Time Net Inadvertent Distribution	55500-0044	(65,564.02)		-		(13,879.30)		-		(2,991.76)
Real Time Revenue Neutrality Uplift Amount	55500-0045	1,409,705.86		298,421.81		-		64,326.39		-
Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-
Demand Response Allocation Uplift Amount	55500-0077	247.14		52.32		-		11.28		-
Day Ahead Ramp Capability Amount	55500-0079	(186.29)		-		(167.74)		-		(8.50)
Real Time Ramp Capability Amount	55500-0080	2.89		0.61		-		0.13		-
Real Time Schedule 49 Cost Distribution Amount	55500-0081	12,894.77		2,729.70		-		588.40		-
Subtotal		1,353,295.26	198,156	301,204.44	198,156	(14,852.55)		95,997	64,926.21	95,997
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		-	198,156	-	198,156	-		95,997	-	95,997
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(56,568.75)		-		(11,975.09)		-		(2,581.29)
Day Ahead Spinning Reserve Amount	55500-0063	(28,868.52)		-		(5,687.82)		-		(1,226.04)
Day Ahead Supplemental Reserve Amount	55500-0064	(372.44)		-		(78.84)		-		(16.99)
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-
Net Regulation Adjustment Amount	55500-0068	655.46		138.75		-		29.91		-
Real Time Regulation Amount	55500-0070	16,709.76		3,537.30		-		762.48		-
Regulation Reserve Cost Distribution Amount	55500-0071	27,152.18		5,747.87		-		1,238.98		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	20,475.42		4,334.46		-		934.32		-
Real Time Spinning Reserve Amount	55500-0072	14,075.26		2,979.60		-		642.27		-
Spinning Reserve Cost Distribution Amount	55500-0073	14,421.46		3,052.89		-		658.07		-
Real Time Supplemental Reserve Amount	55500-0074	237.84		50.35		-		10.85		-
Supplemental Reserve Cost Distribution Amount	55500-0075	3,016.55		638.58		-		137.65		-
Subtotal		12,934.22	198,156	20,479.80	198,156	(17,741.75)		95,997	4,414.53	95,997
Grand Total		5,479,499.89	198,156	957,659.54	198,156	(289,949.40)		95,997	205,896.83	95,997

MINNESOTA POWER			Account	FPE Retail				FAC Resale				Subtotal FPE and FAC
MISO MONTHLY ALLOCATION			Number	October 2020								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	8,154,964.90									-
5	Day Ahead Non-Asset Energy	55500-0027	(4,648,922.08)									-
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	236,897.42									-
	Excessive Energy Amount	55500-0066	274.98									-
	Non-Excessive Energy Amount	55500-0069	230,525.31									-
22	Real Time Non-Asset Energy	55500-0043	(181,823.53)									-
	Subtotal		3,791,917.00	571,756	1,530,921.80			110,166	291,604.15			1,822,525.96
Day Ahead and Real Time Energy Loss												
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	780,689.97									-
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	402,407.89									-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	32,844.16									-
14	Real Time Distribution of Losses	55500-0041	(263,532.88)									-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	2,236.52									-
	Subtotal		954,645.66	571,756	748,721.69	571,756	(161,598.36)	110,166	142,613.66	110,166	(30,780.64)	698,956.34
Virtual Energy												
12	Day Ahead Virtual Energy	55500-0030	-									-
27	Real Time Virtual Energy	55500-0049	-									-
	Subtotal		-	571,756	-	571,756	-	110,166	-	110,166	-	-
Schedule 16 & 17 - 1/												
4	Day Ahead Market Administration (Schedule 17)	55500-0020	162,740.85									-
19	Real Time Market Administration (Schedule 17)	55500-0036	21,878.49									-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,527.58									-
	Subtotal		188,146.92	571,756	115,371.69	571,756	-	110,166	21,975.56	110,166	-	137,347.25
Congestion, FTRs & ARRs												
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	882,621.21									-
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	8,737.07									-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	755,999.94									-
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	16,747.75									-
	Auction Revenue Rights Transaction Amount	55500-0058	(175,010.33)									-
	Financial Transmission Rights Annual Transaction Amount	55500-0059	280,940.87									-
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	2,543.99									-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(72,508.66)									-
28	Financial Transmission Rights Hourly Allocation	55500-0032	(684,756.37)									-
30	Financial Transmission Rights Monthly Allocation	55500-0033	(15,426.71)									-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-									-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(35,034.05)									-
	FTR Guarantee Uplift Amount	55500-0055	35,516.63									-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-									-
31	Financial Transmission Rights Transaction	55500-0034	-									-
	Subtotal		1,000,368.34	571,756	1,217,941.43	571,756	(602,615.02)	110,166	231,988.84	110,166	(114,783.81)	732,531.44
RSG & Make Whole Payments												
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	23,650.79									-
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(135.66)									-
	Real Time Price Volatility Make Whole Payment	55500-0057	(2,282.67)									-
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	35,510.64									-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-									-
	Subtotal		56,743.10	571,756	36,277.79	571,756	(1,482.92)	110,166	6,910.06	110,166	(282.46)	41,422.46
RNU & Misc Charges												
20	Real Time Miscellaneous	55500-0042	(3,344.64)									-
21	Real Time Net Inadvertent Distribution	55500-0044	(28,209.61)									-
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	220,957.23									-
26	Real Time Uninstructed Deviation	55500-0048	-									-
27	Demand Response Allocation Uplift Amount	55500-0077	10.41									-
33	Day Ahead Ramp Capability Amount	55500-0078	(81.74)									-
34	Real Time Ramp Capability Amount	55500-0080	44.34									-
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	14,269.26									-
	Subtotal		203,645.25	571,756	144,274.46	571,756	(19,349.07)	110,166	27,480.85	110,166	(3,685.54)	148,720.70
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		-	571,756	-	571,756	-	110,166	-	110,166	-	-
ASM Charge Types (12 Other)												
	Day Ahead Regulation Amount	55500-0062	(86,358.89)									-
	Day Ahead Spinning Reserve Amount	55500-0063	(39,713.11)									-
	Day Ahead Supplemental Reserve Amount	55500-0064	(135.83)									-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	(192.10)									-
	Net Regulation Adjustment Amount	55500-0068	(356.78)									-
	Real Time Regulation Amount	55500-0070	40,531.61									-
	Regulation Reserve Cost Distribution Amount	55500-0071	33,399.37									-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	24,921.83									-
	Real Time Spinning Reserve Amount	55500-0072	22,614.44									-
	Spinning Reserve Cost Distribution Amount	55500-0073	22,934.19									-
	Real Time Supplemental Reserve Amount	55500-0074	6.63									-
	Supplemental Reserve Cost Distribution Amount	55500-0075	6,437.65									-
	Subtotal		24,089.01	571,756	92,498.60	571,756	(77,727.21)	110,166	17,618.78	110,166	(14,805.18)	17,584.98
	Grand Total		6,219,555.28	571,756	3,886,007.45	571,756	(862,772.58)	110,166	740,191.90	110,166	(164,337.63)	3,599,089.14

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 Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation,

MINNESOTA POWER		Account	October 2020				MISO - Liquidation				Others - Liquidation			
MISO MONTHLY ALLOCATION		Number	October 2020				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		8,154,964.90											
Day Ahead Non-Asset Energy	55500-0027		(4,648,922.08)											
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		236,897.42											
Excessive Energy Amount	55500-0066		274.98											
Non-Excessive Energy Amount	55500-0069		230,525.31											
Real Time Non-Asset Energy	55500-0043		(181,823.53)											
Subtotal			3,791,917.00		26,990				81,532				48,328	
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		780,689.97		21,021.25									
Day Ahead Financial Bilateral Transaction Loss	55500-0022		402,407.89		10,958.90									
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		32,844.16		884.38									
Real Time Distribution of Losses	55500-0041		(263,532.88)										(7,176.87)	
Real Time Financial Bilateral Transaction Loss	55500-0038		2,236.52		60.91									
Subtotal			954,645.66		26,990		32,925.44		26,990		(7,176.87)		81,532	
Virtual Energy														
Day Ahead Virtual Energy	55500-0030		-											
Real Time Virtual Energy	55500-0049		-											
Subtotal			-		26,990		-		26,990		-		81,532	
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020		162,740.85		4,431.97									
Real Time Market Administration (Schedule 17)	55500-0036		21,878.49		595.82									
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		3,527.58		96.07									
Subtotal			188,146.92		26,990		5,123.86		26,990		-		81,532	
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		882,621.21		23,765.91									
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		8,737.07		235.26									
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		755,996.94		20,588.35									
Real Time Financial Bilateral Transaction Congestion	55500-0037		16,747.75		456.10									
Auction Revenue Rights Transaction Amount	55500-0058		(175,010.33)										(4,766.11)	
Financial Transmission Rights Annual Transaction Amount	55500-0059		280,940.87		7,650.95									
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		2,543.99		69.28									
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(72,508.66)										(1,974.65)	
Financial Transmission Rights Hourly Allocation	55500-0032		(684,756.37)										(18,648.18)	
Financial Transmission Rights Monthly Allocation	55500-0033		(15,428.71)										(420.17)	
Financial Transmission Rights Yearly Allocation	55500-0035		-											
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(35,034.05)										(954.09)	
FTR Guarantee Uplift Amount	55500-0055		35,516.63		967.24									
Financial Transmission Rights Monthly Transaction Amount	55500-0056		-											
Financial Transmission Rights Transaction	55500-0034		-											
Subtotal			1,000,368.34		26,990		53,733.08		26,990		(26,763.21)		81,532	
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		23,650.79		644.09									
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(135.66)										(3.69)	
Real Time Price Volatility Make Whole Payment	55500-0057		(2,282.67)										(62.16)	
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		35,510.64		967.07									
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		-											
Subtotal			56,743.10		26,990		1,611.16		26,990		(65.86)		81,532	
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042		(3,344.64)										(91.09)	
Real Time Net Inadvertent Distribution	55500-0044		(28,209.61)										(768.24)	
Real Time Revenue Neutrality Uplift Amount	55500-0045		220,957.23		6,017.40									
Real Time Uninstructed Deviation	55500-0048		-											
Demand Response Allocation Uplift Amount	55500-0077		10.41		0.28									
Day Ahead Ramps Capability Amount	55500-0079		(81.74)										(9.44)	
Real Time Ramps Capability Amount	55500-0080		44.34		1.21									
Real Time Schedule 49 Cost Distribution Amount	55500-0081		14,269.26		388.60									
Subtotal			203,645.25		26,990		6,407.49		26,990		(868.76)		81,532	
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			-		26,990		-		26,990		-		81,532	
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062		(86,358.89)										(2,351.84)	
Day Ahead Spinning Reserve Amount	55500-0063		(39,713.11)										(1,081.52)	
Day Ahead Supplemental Reserve Amount	55500-0064		(135.89)										(3.70)	
Contingency Reserve Deployment Failure Charge Amount	55500-0065		(192.10)										(5.23)	
Net Regulation Adjustment Amount	55500-0068		(356.78)										(9.72)	
Real Time Regulation Amount	55500-0070		40,531.61		1,103.81									
Regulation Reserve Cost Distribution Amount	55500-0071		33,399.37		909.58									
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		24,921.83		678.70									
Real Time Spinning Reserve Amount	55500-0072		22,814.44		615.87									
Spinning Reserve Cost Distribution Amount	55500-0073		22,934.19		624.57									
Real Time Supplemental Reserve Amount	55500-0074		6.63		0.18									
Supplemental Reserve Cost Distribution Amount	55500-0075		6,437.65		175.32									
Subtotal			24,089.01		26,990		4,108.03		26,990		(3,452.00)		81,532	
Grand Total			6,219,555.28		26,990		103,909.06		26,990		(38,326.71)		81,532	

MINNESOTA POWER		Account	October 2020				Contract Sales				
MISO MONTHLY ALLOCATION		Number	Others - Non-Liquidation				Contract Sales				
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Revenue		
Day Ahead and Real Time Energy											
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050		8,154,964.90								
Day Ahead Non-Asset Energy	55500-0027		(4,648,922.08)								
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		236,897.42								
Excessive Energy Amount	55500-0066		274.98								
Non-Excessive Energy Amount	55500-0069		230,525.31								
Real Time Non-Asset Energy	55500-0043		(181,823.53)								
Subtotal			3,791,917.00	196,312			117,591				
Day Ahead and Real Time Energy Loss											
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		780,689.97	152,899.12		-	34,884.28		-		
Day Ahead Financial Bilateral Transaction Loss	55500-0022		402,407.89	79,710.08		-	17,981.16		-		
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		32,844.16	6,432.57		-	1,467.61		-		
Real Time Distribution of Losses	55500-0041		(263,532.88)			(52,201.33)			(11,775.68)		
Real Time Financial Bilateral Transaction Loss	55500-0038		2,236.52	443.02		-	99.94		-		
Subtotal			954,645.66	196,312	239,484.78	196,312	(52,201.33)	117,591	54,432.98	117,591	(11,775.68)
Virtual Energy											
Day Ahead Virtual Energy	55500-0030		-								
Real Time Virtual Energy	55500-0049		-								
Subtotal			-	196,312	-	196,312	-	117,591	-	117,591	-
Schedule 16 & 17 - 1/											
Day Ahead Market Administration (Schedule 17)	55500-0020		162,740.85	32,236.16		-	7,271.90		-		
Real Time Market Administration (Schedule 17)	55500-0036		21,878.49	4,333.75		-	977.62		-		
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		3,527.58	698.75		-	157.63		-		
Subtotal			188,146.92	196,312	37,268.67	196,312	-	117,591	8,407.14	117,591	-
Congestion, FTRs & ARR											
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		882,621.21	172,862.48		-	39,438.96		-		
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		8,737.07	1,711.17		-	390.41		-		
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		755,996.94	149,750.38		-	33,780.99		-		
Real Time Financial Bilateral Transaction Congestion	55500-0037		16,747.75	3,317.44		-	748.35		-		
Auction Revenue Rights Transaction Amount	55500-0058		(175,010.33)			(34,666.53)			(7,820.15)		
Financial Transmission Rights Annual Transaction Amount	55500-0059		280,940.87	55,649.55		-	12,553.54		-		
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		2,543.99	503.92		-	113.68		-		
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(72,508.66)			(14,362.72)			(3,239.97)		
Financial Transmission Rights Hourly Allocation	55500-0032		(684,756.37)			(135,638.45)			(30,597.59)		
Financial Transmission Rights Monthly Allocation	55500-0033		(15,428.71)			(3,056.16)			(689.42)		
Financial Transmission Rights Yearly Allocation	55500-0035		-			-			-		
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(35,034.05)			(6,939.64)			(1,565.46)		
FTR Guarantee Uplift Amount	55500-0055		35,516.63	7,035.23		-	1,587.02		-		
Financial Transmission Rights Monthly Transaction Amount	55500-0056		-			-			-		
Financial Transmission Rights Transaction	55500-0034		-			-			-		
Subtotal			1,000,368.34	196,312	390,830.17	196,312	(194,663.50)	117,591	88,612.94	117,591	(43,912.58)
RSG & Make Whole Payments											
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		23,650.79	4,684.81		-	1,056.81		-		
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(135.66)			(26.87)			(6.06)		
Real Time Price Volatility Make Whole Payment	55500-0057		(2,282.67)			(452.16)			(102.00)		
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		35,510.64	7,034.05		-	1,586.75		-		
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		-			-			-		
Subtotal			56,743.10	196,312	11,718.86	196,312	(479.03)	117,591	2,643.56	117,591	(108.06)
RNU & Misc Charges											
Real Time Miscellaneous	55500-0042		(3,344.64)			(662.52)			(149.45)		
Real Time Net Inadvertent Distribution	55500-0044		(28,209.61)			(5,587.84)			(1,260.52)		
Real Time Revenue Neutrality Uplift Amount	55500-0045		220,957.23	43,767.82		-	9,873.23		-		
Real Time Uninstructed Deviation	55500-0048		-			-			-		
Demand Response Allocation Uplift Amount	55500-0077		10.41	2.06		-	0.47		-		
Day Ahead Ramps Capability Amount	55500-0079		(81.74)			(68.65)			(3.65)		
Real Time Ramps Capability Amount	55500-0080		44.34	8.78		-	1.98		-		
Real Time Schedule 49 Cost Distribution Amount	55500-0081		14,269.26	2,826.49		-	637.61		-		
Subtotal			203,645.25	196,312	46,605.16	196,312	(6,319.00)	117,591	10,513.28	117,591	(1,413.62)
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			-	196,312	-	196,312	-	117,591	-	117,591	-
ASM Charge Types (12 Other)											
Day Ahead Regulation Amount	55500-0062		(86,358.89)			(17,106.21)			(3,858.85)		
Day Ahead Spinning Reserve Amount	55500-0063		(39,713.11)			(7,866.48)			(1,774.54)		
Day Ahead Supplemental Reserve Amount	55500-0064		(135.83)			(28.91)			(6.07)		
Contingency Reserve Deployment Failure Charge Amount	55500-0065		(192.10)			(38.05)			(8.58)		
Net Regulation Adjustment Amount	55500-0068		(356.78)			(70.67)			(15.94)		
Real Time Regulation Amount	55500-0070		40,531.61	8,028.61		-	1,811.11		-		
Regulation Reserve Cost Distribution Amount	55500-0071		33,399.37	6,615.84		-	1,492.41		-		
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		24,921.83	4,936.59		-	1,113.60		-		
Real Time Spinning Reserve Amount	55500-0072		22,614.44	4,479.53		-	1,010.50		-		
Spinning Reserve Cost Distribution Amount	55500-0073		22,934.19	4,542.87		-	1,024.79		-		
Real Time Supplemental Reserve Amount	55500-0074		6.63	1.31		-	0.30		-		
Supplemental Reserve Cost Distribution Amount	55500-0075		6,437.65	1,275.19		-	287.66		-		
Subtotal			24,089.01	196,312	29,879.94	196,312	(25,108.32)	117,591	6,740.38	117,591	(5,663.98)
Grand Total			6,219,555.28	196,312	755,787.58	196,312	(278,771.19)	117,591	171,350.28	117,591	(62,873.92)

MINNESOTA POWER			FPE Retail		FAC Resale			Subtotal FPE and FAC		
MISO MONTHLY ALLOCATION			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Revenue	Cost/(Revenue)
Account	Number	November 2020								
Day Ahead and Real Time Energy										
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	6,855,351.95							-
5	Day Ahead Non-Asset Energy	55500-0027	(4,226,760.83)							-
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	590,940.59							-
	Excessive Energy Amount	55500-0066 (135.51)								-
	Non-Excessive Energy Amount	55500-0069	415,855.66							-
22	Real Time Non-Asset Energy	55500-0043 (372,329.60)								-
	Subtotal		3,262,922.26		585,481	935,607.05		112,423	178,210.87	1,113,817.91
Day Ahead and Real Time Energy Loss										
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	821,995.09		496,854.17	-		94,638.89	-	591,493.06
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	324,231.88		196,095.44	-		37,351.51	-	233,446.95
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	36,734.98		22,204.43	-		4,229.41	-	26,433.84
14	Real Time Distribution of Losses	55500-0041	(271,887.78)		-	(164,437.73)		-	(31,321.47)	(195,759.20)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	(505.02)		-	(305.44)		-	(58.18)	(363.61)
	Subtotal		910,569.15		585,481	715,154.04	585,481	(164,743.17)	112,423	136,219.82
Virtual Energy										
12	Day Ahead Virtual Energy	55500-0030	-		-	-		-	-	-
27	Real Time Virtual Energy	55500-0049	-		-	-		-	-	-
	Subtotal		-		585,481	-	585,481	-	112,423	-
Schedule 16 & 17 1/										
4	Day Ahead Market Administration (Schedule 17)	55500-0020	154,788.89		93,616.32	-		17,831.68	-	111,448.00
19	Real Time Market Administration (Schedule 17)	55500-0036	22,237.44		13,449.20	-		2,561.75	-	16,010.96
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,570.21		2,159.26	-		411.29	-	2,570.55
	Subtotal		180,596.54		585,481	109,224.79	585,481	-	112,423	20,804.72
Congestion, FTRs & ARRs										
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	36,425.72		22,017.49	-		4,193.81	-	26,211.30
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(129,544.38)		-	(78,302.98)		-	(14,914.85)	(93,217.83)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	1,184,693.60		716,502.69	-		136,476.70	-	852,979.39
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	(3,781.75)		-	(2,287.20)		-	(435.66)	(2,722.86)
	Auction Revenue Rights Transaction Amount	55500-0058	(175,010.33)		-	(105,846.25)		-	(20,161.19)	(126,007.44)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	280,940.87		169,913.04	-		32,364.39	-	202,277.43
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	2,543.99		1,538.61	-		293.07	-	1,831.67
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(72,508.66)		-	(43,853.24)		-	(8,353.00)	(52,206.24)
28	Financial Transmission Rights Hourly Allocation	55500-0032	(245,572.19)		-	(148,522.06)		-	(28,289.92)	(176,811.98)
30	Financial Transmission Rights Monthly Allocation	55500-0033	(20,579.53)		-	(12,446.50)		-	(2,370.76)	(14,817.26)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-	-		-	-	-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(2,323.11)		-	(1,405.02)		-	(267.62)	(1,627.64)
	FTR Guarantee Uplift Amount	55500-0055	333.47		201.68	-		38.42	-	240.10
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	31,952.38		19,324.80	-		3,680.91	-	23,005.71
31	Financial Transmission Rights Transaction	55500-0034	-		-	-		-	-	-
	Subtotal		887,570.08		585,481	929,498.31	585,481	(392,663.24)	112,423	177,047.30
RSG & Make Whole Payments										
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	29,012.10		17,546.52	-		3,342.19	-	20,888.71
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-		-	-		-	-	-
	Real Time Price Volatility Make Whole Payment	55500-0057	(470.03)		-	(284.27)		-	(54.15)	(338.42)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	75,381.99		45,591.03	-		8,684.01	-	54,275.03
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-	-		-	-	-
	Subtotal		103,924.06		585,481	63,137.55	585,481	(284.27)	112,423	12,026.20
RNU & Misc Charges										
20	Real Time Miscellaneous	55500-0042	1,459.38		882.63	-		168.12	-	1,050.75
21	Real Time Net Inadvertent Distribution	55500-0044	(3,669.89)		-	(2,219.55)		-	(422.77)	(2,642.32)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	154,504.35		93,444.23	-		17,798.90	-	111,243.13
26	Real Time Uninstructed Deviation	55500-0048	-		-	-		-	-	-
27	Demand Response Allocation Uplift Amount	55500-0077	(68.47)		-	(41.41)		-	(7.89)	(49.30)
33	Day Ahead Ramp Capability Amount	55500-0078	(12.50)		-	-		-	-	-
34	Real Time Ramp Capability Amount	55500-0080	(4.01)		-	(2.43)		-	(0.46)	(2.89)
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	14,433.53		8,729.40	-		1,662.74	-	10,392.14
	Subtotal		166,642.39		585,481	103,056.26	585,481	(2,263.39)	112,423	19,629.76
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		-		585,481	-	585,481	-	112,423	-
ASM Charge Types (12 Other)										
	Day Ahead Regulation Amount	55500-0062	(88,482.37)		-	(53,514.14)		-	(10,193.17)	(63,707.31)
	Day Ahead Spinning Reserve Amount	55500-0063	(23,857.71)		-	(14,429.14)		-	(2,748.41)	(17,177.55)
	Day Ahead Supplemental Reserve Amount	55500-0064	(88.01)		-	(53.23)		-	(10.14)	(63.37)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	11.69		7.07	-		1.35	-	8.42
	Net Regulation Adjustment Amount	55500-0068	(36.13)		-	(21.85)		-	(4.16)	(26.01)
	Real Time Regulation Amount	55500-0070	11,343.70		6,860.67	-		1,306.79	-	8,167.46
	Regulation Reserve Cost Distribution Amount	55500-0071	34,808.53		21,052.20	-		4,009.94	-	25,062.14
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	39,738.62		24,033.92	-		4,577.89	-	28,611.81
	Real Time Spinning Reserve Amount	55500-0072	2,706.40		1,636.63	-		311.78	-	1,946.61
	Spinning Reserve Cost Distribution Amount	55500-0073	19,793.88		11,971.34	-		2,280.25	-	14,251.59
	Real Time Supplemental Reserve Amount	55500-0074	(130.84)		-	(79.13)		-	(15.07)	(94.20)
	Supplemental Reserve Cost Distribution Amount	55500-0075	2,448.12		1,480.62	-		282.02	-	1,762.65
	Subtotal		(1,744.12)		585,481	67,042.65	585,481	(68,097.49)	112,423	12,770.03
	Grand Total		5,510,480.36		585,481	2,922,720.63	585,481	(628,051.56)	112,423	556,708.69

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 Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation,

MINNESOTA POWER		Account	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
MISO MONTHLY ALLOCATION		Number	November 2020											
			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		6,855,351.95											
Day Ahead Non-Asset Energy	55500-0027		(4,226,760.83)											
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		590,940.59											
Excessive Energy Amount	55500-0066		(135.51)											
Non-Excessive Energy Amount	55500-0069		415,855.66											
Real Time Non-Asset Energy	55500-0043		(372,329.60)											
Subtotal			3,262,922.26		35,913				67,325				62,363	
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		821,995.09	29,067.93										
Day Ahead Financial Bilateral Transaction Loss	55500-0022		324,231.88	11,445.68										
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		36,734.98	1,299.05										
Real Time Distribution of Losses	55500-0041		(271,887.78)			(9,597.89)								
Real Time Financial Bilateral Transaction Loss	55500-0038		(505.02)			(17.83)								
Subtotal			910,569.15	35,913	41,812.66	35,913	(9,615.72)		67,325		67,325		62,363	
Virtual Energy														
Day Ahead Virtual Energy	55500-0030		-											
Real Time Virtual Energy	55500-0049		-											
Subtotal			-	35,913	-	35,913	-		67,325		67,325		62,363	-
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020		154,788.89	5,464.19										
Real Time Market Administration (Schedule 17)	55500-0036		22,237.44	785.00										
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		3,570.21	126.03										
Subtotal			180,596.54	35,913	6,375.22	35,913	-		67,325		67,325		62,363	-
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		36,425.72	1,288.11										
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(129,544.38)			(4,581.03)								
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		1,184,693.60	41,820.77										
Real Time Financial Bilateral Transaction Congestion	55500-0037		(3,781.75)			(133.50)								
Auction Revenue Rights Transaction Amount	55500-0058		(175,010.33)			(6,178.03)								
Financial Transmission Rights Annual Transaction Amount	55500-0059		280,940.87	9,917.47										
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		2,543.99	89.81										
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(72,508.66)			(2,559.62)								
Financial Transmission Rights Hourly Allocation	55500-0032		(245,572.19)			(8,668.92)								
Financial Transmission Rights Monthly Allocation	55500-0033		(20,579.53)			(726.48)								
Financial Transmission Rights Yearly Allocation	55500-0035		-			-								
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(2,323.11)			(82.01)								
FTR Guarantee Uplift Amount	55500-0055		333.47	11.77										
Financial Transmission Rights Monthly Transaction Amount	55500-0056		31,952.38	1,127.95										
Financial Transmission Rights Transaction	55500-0034		-			-								
Subtotal			887,570.08	35,913	54,255.88	35,913	(22,929.59)		67,325		67,325		62,363	-
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		29,012.10	1,024.15										
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		-											
Real Time Price Volatility Make Whole Payment	55500-0057		(470.03)			(16.59)								
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		75,381.99	2,661.05										
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		-											
Subtotal			103,924.06	35,913	3,685.21	35,913	(16.59)		67,325		67,325		62,363	-
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042		1,459.38	51.52										
Real Time Net Inadvertent Distribution	55500-0044		(3,669.89)			(129.55)								
Real Time Revenue Neutrality Uplift Amount	55500-0045		154,504.35	5,454.15										
Real Time Uninstructed Deviation	55500-0048		-											
Demand Response Allocation Uplift Amount	55500-0077		(68.47)			(2.42)								
Day Ahead Ramps Capability Amount	55500-0079		(12.50)			(1.77)								
Real Time Ramps Capability Amount	55500-0080		(4.01)			(0.14)								
Real Time Schedule 49 Cost Distribution Amount	55500-0081		14,433.53	509.52										
Subtotal			166,642.39	35,913	6,015.18	35,913	(133.88)		67,325		67,325		62,363	-
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			-	35,913	-	35,913	-		67,325		67,325		62,363	-
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062		(88,482.37)			(3,123.51)								
Day Ahead Spinning Reserve Amount	55500-0063		(23,857.71)			(842.20)								
Day Ahead Supplemental Reserve Amount	55500-0064		(88.01)			(3.11)								
Contingency Reserve Deployment Failure Charge Amount	55500-0065		11.69	0.41										
Net Regulation Adjustment Amount	55500-0068		(36.13)			(1.28)								
Real Time Regulation Amount	55500-0070		11,343.70	400.44										
Regulation Reserve Cost Distribution Amount	55500-0071		34,808.53	1,228.77										
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		39,738.62	1,402.81										
Real Time Spinning Reserve Amount	55500-0072		2,706.40	95.54										
Spinning Reserve Cost Distribution Amount	55500-0073		19,793.88	698.74										
Real Time Supplemental Reserve Amount	55500-0074		(130.84)			(4.62)								
Supplemental Reserve Cost Distribution Amount	55500-0075		2,448.12	86.42										
Subtotal			(1,744.12)	35,913	3,913.14	35,913	(3,974.71)		67,325		67,325		62,363	-
Grand Total			5,510,480.36	35,913	116,057.29	35,913	(36,670.49)		67,325		67,325		62,363	-

MINNESOTA POWER		Account	Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION		Number	November 2020							
			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	6,855,351.95								
Day Ahead Non-Asset Energy	55500-0027	(4,226,760.83)								
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	590,940.59								
Excessive Energy Amount	55500-0066	(135.51)								
Non-Excessive Energy Amount	55500-0069	415,855.66								
Real Time Non-Asset Energy	55500-0043	(872,329.60)								
Subtotal		3,262,922.26	207,130				116,214			
Day Ahead and Real Time Energy Loss										
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	821,995.09		167,651.28				33,782.83		
Day Ahead Financial Bilateral Transaction Loss	55500-0022	324,231.88		66,013.77				13,325.47		
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	36,734.98		7,492.34				1,509.76		
Real Time Distribution of Losses	55500-0041	(271,887.78)		-		(55,356.49)		-		(11,174.20)
Real Time Financial Bilateral Transaction Loss	55500-0038	(505.02)		-		(102.82)		-		(20.76)
Subtotal		910,569.15	207,130	241,157.39	207,130	(55,459.31)	116,214	48,618.06	116,214	(11,194.96)
Virtual Energy										
Day Ahead Virtual Energy	55500-0030	-								
Real Time Virtual Energy	55500-0049	-								
Subtotal		-	207,130	-	207,130	-	116,214	-	116,214	-
Schedule 16 & 17 - 1/										
Day Ahead Market Administration (Schedule 17)	55500-0020	154,788.89		31,515.10		-		6,361.60		-
Real Time Market Administration (Schedule 17)	55500-0036	22,237.44		4,527.55		-		913.93		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,570.21		726.90		-		146.73		-
Subtotal		180,596.54	207,130	36,769.55	207,130	-	116,214	7,422.26	116,214	-
Congestion, FTRs & ARRs										
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	36,425.72		7,429.26		-		1,497.05		-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(129,544.38)		-		(26,421.42)		-		(5,324.09)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	1,184,693.60		241,204.21		-		48,689.22		-
Real Time Financial Bilateral Transaction Congestion	55500-0037	(3,781.75)		-		(769.97)		-		(155.42)
Auction Revenue Rights Transaction Amount	55500-0058	(175,010.33)		-		(35,632.19)		-		(7,192.68)
Financial Transmission Rights Annual Transaction Amount	55500-0059	280,940.87		57,199.70		-		11,546.27		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	2,543.99		517.96		-		104.55		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(72,508.66)		-		(14,762.80)		-		(2,980.00)
Financial Transmission Rights Hourly Allocation	55500-0032	(245,572.19)		-		(49,998.62)		-		(10,092.67)
Financial Transmission Rights Monthly Allocation	55500-0033	(20,579.53)		-		(4,190.00)		-		(845.79)
Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(2,323.11)		-		(472.99)		-		(95.48)
FTR Guarantee Uplift Amount	55500-0055	333.47		67.89		-		13.71		-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	31,952.38		6,505.52		-		1,313.20		-
Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-
Subtotal		887,570.08	207,130	312,924.55	207,130	(132,247.99)	116,214	63,164.00	116,214	(26,686.13)
RSG & Make Whole Payments										
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	29,012.10		5,906.88		-		1,192.36		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-		-		-		-		-
Real Time Price Volatility Make Whole Payment	55500-0057	(470.03)		-		(95.70)		-		(19.32)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	75,381.99		15,347.81		-		3,098.09		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-		-		-		-
Subtotal		103,924.06	207,130	21,254.69	207,130	(95.70)	116,214	4,290.45	116,214	(19.32)
RNU & Misc Charges										
Real Time Miscellaneous	55500-0042	1,459.38		297.13		-		59.98		-
Real Time Net Inadvertent Distribution	55500-0044	(3,669.89)		-		(747.19)		-		(150.83)
Real Time Revenue Neutrality Uplift Amount	55500-0045	154,504.35		31,457.16		-		6,349.91		-
Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-
Demand Response Allocation Uplift Amount	55500-0077	(68.47)		-		(13.94)		-		(2.81)
Day Ahead Ramp Capability Amount	55500-0079	(12.50)		-		(10.22)		-		(0.51)
Real Time Ramp Capability Amount	55500-0080	(4.01)		-		(0.82)		-		(0.16)
Real Time Schedule 49 Cost Distribution Amount	55500-0081	14,433.53		2,938.67		-		593.20		-
Subtotal		166,642.39	207,130	34,692.97	207,130	(772.16)	116,214	7,003.09	116,214	(154.32)
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		-	207,130	-	207,130	-	116,214	-	116,214	-
ASM Charge Types (12 Other)										
Day Ahead Regulation Amount	55500-0062	(88,482.37)		-		(18,015.05)		-		(3,636.50)
Day Ahead Spinning Reserve Amount	55500-0063	(23,857.71)		-		(4,857.44)		-		(980.52)
Day Ahead Supplemental Reserve Amount	55500-0064	(88.01)		-		(17.92)		-		(3.62)
Contingency Reserve Deployment Failure Charge Amount	55500-0065	11.69		2.38		-		0.48		-
Net Regulation Adjustment Amount	55500-0068	(36.13)		-		(7.36)		-		(1.48)
Real Time Regulation Amount	55500-0070	11,343.70		2,309.58		-		466.21		-
Regulation Reserve Cost Distribution Amount	55500-0071	34,808.53		7,087.03		-		1,430.58		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	39,738.62		8,090.80		-		1,633.20		-
Real Time Spinning Reserve Amount	55500-0072	2,706.40		551.02		-		111.23		-
Spinning Reserve Cost Distribution Amount	55500-0073	19,793.88		4,030.04		-		813.50		-
Real Time Supplemental Reserve Amount	55500-0074	(130.84)		-		(26.64)		-		(5.38)
Supplemental Reserve Cost Distribution Amount	55500-0075	2,448.12		498.44		-		100.61		-
Subtotal		(1,744.12)	207,130	22,569.31	207,130	(22,924.41)	116,214	4,555.82	116,214	(4,627.50)
Grand Total		5,510,480.36	207,130	669,368.44	207,130	(211,499.57)	116,214	135,053.67	116,214	(42,682.22)

MINNESOTA POWER			FPE Retail				FAC Resale				Subtotal FPE and FAC		
MISO MONTHLY ALLOCATION			December 2020								Cost/(Revenue)		
	Account Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue			
Day Ahead and Real Time Energy													
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050											
5	Day Ahead Non-Asset Energy	55500-0027	7,033,964.07	(4,570,232.41)							-		
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	736,287.19								-		
	Excessive Energy Amount	55500-0066	646.01								-		
	Non-Excessive Energy Amount	55500-0069	25,198.14								-		
22	Real Time Non-Asset Energy	55500-0043	(437,826.63)								-		
	Subtotal		2,788,036.37		633,164	1,915,644.81		124,604	364,884.73		2,280,529.53		
Day Ahead and Real Time Energy Loss													
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,130,863.43								875,057.07		
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	358,731.51								19,651.70		
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	47,108.80								36,452.58		
14	Real Time Distribution of Losses	55500-0041	(279,157.53)								(214,951.30)		
16	Real Time Financial Bilateral Transaction Loss	55500-0038									-		
	Subtotal		1,257,546.21		633,164	997,695.65	633,164	(180,559.09)	124,604	190,037.27	124,604	(34,392.21)	972,781.61
Virtual Energy													
12	Day Ahead Virtual Energy	55500-0030	-										
27	Real Time Virtual Energy	55500-0049	-										
	Subtotal		-		633,164	-	633,164	-	124,604	-	124,604	-	-
Schedule 16 & 17 - 1/													
4	Day Ahead Market Administration (Schedule 17)	55500-0020	180,764.67										
19	Real Time Market Administration (Schedule 17)	55500-0036	21,158.76										
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	3,276.24										
	Subtotal		205,199.67		633,164	132,723.15	633,164	-	124,604	25,280.60	124,604	-	158,003.75
Congestion, FTRs & ARRs													
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	905,309.74										
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(257,597.31)										
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	(12,534.67)										
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										
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	2,914.02										
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(67,699.29)										
28	Financial Transmission Rights Hourly Allocation	55500-0032	(168,526.08)										
30	Financial Transmission Rights Monthly Allocation	55500-0033	(12,834.44)										
32	Financial Transmission Rights Yearly Allocation	55500-0035											
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(31,329.17)										
	FTR Guarantee Uplift Amount	55500-0055	29,309.19										
	Financial Transmission Rights Monthly Transaction Amount	55500-0056											
31	Financial Transmission Rights Transaction	55500-0034											
	Subtotal		393,944.14		633,164	651,219.58	633,164	(394,351.44)	124,604	124,041.82	124,604	(75,114.56)	305,795.40
RSG & Make Whole Payments													
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	30,914.42										
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(1,998.51)										
	Real Time Price Volatility Make Whole Payment	55500-0057	(17,336.65)										
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	42,632.29										
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(3,193.27)										
	Subtotal		51,019.28		633,164	47,570.01	633,164	(14,570.74)	124,604	9,060.95	124,604	(2,775.38)	39,284.85
RNU & Misc Charges													
20	Real Time Miscellaneous	55500-0042	557.69										
21	Real Time Net Inadvertent Distribution	55500-0044	(2,884.92)										
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	208,874.74										
26	Real Time Uninstructed Deviation	55500-0048											
27	Demand Response Allocation Uplift Amount	55500-0077	526.16										
33	Day Ahead Ramp Capability Amount	55500-0078	(16.89)										
34	Real Time Ramp Capability Amount	55500-0080	(18.84)										
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	11,675.95										
	Subtotal		218,713.90		633,164	143,353.22	633,164	(1,878.15)	124,604	27,305.38	124,604	(357.74)	168,422.70
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		-		633,164	-	633,164	-	124,604	-	124,604	-	-
ASM Charge Types (12 Other)													
	Day Ahead Regulation Amount	55500-0062	(105,530.86)										
	Day Ahead Spinning Reserve Amount	55500-0063	(53,481.70)										
	Day Ahead Supplemental Reserve Amount	55500-0064	29.22										
	Contingency Reserve Deployment Failure Charge Amount	55500-0065											
	Net Regulation Adjustment Amount	55500-0068	3,283.76										
	Real Time Regulation Amount	55500-0070	26,151.70										
	Regulation Reserve Cost Distribution Amount	55500-0071	30,984.72										
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	39,796.17										
	Real Time Spinning Reserve Amount	55500-0072	24,184.77										
	Spinning Reserve Cost Distribution Amount	55500-0073	22,616.68										
	Supplemental Reserve Amount	55500-0074	(73.58)										
	Supplemental Reserve Cost Distribution Amount	55500-0075	3,310.77										
	Subtotal		(8,728.35)		633,164	97,251.42	633,164	(102,896.92)	124,604	18,524.08	124,604	(19,599.41)	(6,720.83)
	Grand Total		4,905,731.21		633,164	3,985,457.83	633,164	(694,256.34)	124,604	759,134.82	124,604	(132,239.30)	3,918,097.01

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 Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation,

MINNESOTA POWER		Account	MISO Non-Liquidation				MISO - Liquidation				Others - Liquidation			
MISO MONTHLY ALLOCATION		Number	December 2020											
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead and Real Time Energy														
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050													
Day Ahead Non-Asset Energy	55500-0027		7,033,964.07	(4,570,232.41)										
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050													
Excessive Energy Amount	55500-0066		736,287.19											
Non-Excessive Energy Amount	55500-0069		646.01											
Real Time Non-Asset Energy	55500-0043		25,198.14	(437,826.63)										
Subtotal			2,788,036.37	39,580			51,550				45,942			
Day Ahead and Real Time Energy Loss														
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050													
Day Ahead Financial Bilateral Transaction Loss	55500-0022		1,130,863.43	36,531.66										
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050													
Real Time Distribution of Losses	55500-0041		358,731.51	11,829.27										
Real Time Financial Bilateral Transaction Loss	55500-0038		47,108.80	1,521.81										
Subtotal			1,257,546.21	39,580	49,882.74	39,580	(9,205.29)	51,550		51,550		45,942		45,942
Virtual Energy														
Day Ahead Virtual Energy	55500-0030													
Real Time Virtual Energy	55500-0049													
Subtotal			-	39,580	-	39,580	-	51,550		51,550		45,942		45,942
Schedule 16 & 17 - 1/														
Day Ahead Market Administration (Schedule 17)	55500-0020		180,764.67	5,960.76										
Real Time Market Administration (Schedule 17)	55500-0036		21,158.76	697.72										
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		3,276.24	108.03										
Subtotal			205,199.67	39,580	6,766.51	39,580	-	51,550		51,550		45,942		45,942
Congestion, FTRs & ARRs														
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050													
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		905,309.74	29,245.32										
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		(257,597.31)	-		(8,321.48)								
Real Time Financial Bilateral Transaction Congestion	55500-0037		(12,534.67)	-		(413.33)								
Auction Revenue Rights Transaction Amount	55500-0058		(57,905.38)	-		(1,909.45)								
Financial Transmission Rights Annual Transaction Amount	55500-0059		64,837.53	2,138.04		-								
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		2,914.02	96.09		-								
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(67,699.29)	-		(2,232.40)								
Financial Transmission Rights Hourly Allocation	55500-0032		(168,526.08)	-		(5,557.19)								
Financial Transmission Rights Monthly Allocation	55500-0033		(12,834.44)	-		(423.22)								
Financial Transmission Rights Yearly Allocation	55500-0035		-	-		-								
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(31,329.17)	-		(1,033.09)								
FTR Guarantee Uplift Amount	55500-0055		29,309.19	966.48		-								
Financial Transmission Rights Monthly Transaction Amount	55500-0056		-	-		-								
Financial Transmission Rights Transaction	55500-0034		-	-		-								
Subtotal			393,944.14	39,580	32,445.93	39,580	(19,890.16)	51,550		51,550		45,942		45,942
RSG & Make Whole Payments														
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		30,914.42	1,019.41		-								
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(1,998.51)	-		(65.90)								
Real Time Price Volatility Make Whole Payment	55500-0057		(17,335.65)	-		(571.65)								
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		42,632.29	1,405.81		-								
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		(3,193.27)	-		(105.30)								
Subtotal			51,019.28	39,580	2,425.22	39,580	(742.85)	51,550		51,550		45,942		45,942
RNU & Misc Charges														
Real Time Miscellaneous	55500-0042		557.69	18.39		-								
Real Time Net Inadvertent Distribution	55500-0044		(2,884.92)	-		(95.13)								
Real Time Revenue Neutrality Uplift Amount	55500-0045		208,874.74	6,887.70		-								
Real Time Uninstructed Deviation	55500-0048		-	-		-								
Demand Response Allocation Uplift Amount	55500-0077		526.16	17.35		-								
Day Ahead Ramp Capability Amount	55500-0079		(16.88)	-		(2.85)								
Real Time Ramp Capability Amount	55500-0080		(18.84)	-		(0.62)								
Real Time Schedule 49 Cost Distribution Amount	55500-0081		11,675.95	385.02		-								
Subtotal			218,713.90	39,580	7,308.46	39,580	(98.61)	51,550		51,550		45,942		45,942
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			-	39,580	-	39,580	-	51,550		51,550		45,942		45,942
ASM Charge Types (12 Other)														
Day Ahead Regulation Amount	55500-0062		(105,530.86)	-		(3,479.91)								
Day Ahead Spinning Reserve Amount	55500-0063		(53,481.70)	-		(1,763.57)								
Day Ahead Supplemental Reserve Amount	55500-0064		29.22	0.96		-								
Contingency Reserve Deployment Failure Charge Amount	55500-0065		-	-		-								
Net Regulation Adjustment Amount	55500-0068		3,283.76	108.28		-								
Real Time Regulation Amount	55500-0070		26,151.70	862.36		-								
Regulation Reserve Cost Distribution Amount	55500-0071		30,984.72	1,021.73		-								
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		39,796.17	1,312.29		-								
Real Time Spinning Reserve Amount	55500-0072		24,164.77	797.50		-								
Spinning Reserve Cost Distribution Amount	55500-0073		22,616.68	745.79		-								
Real Time Supplemental Reserve Amount	55500-0074		(73.58)	-		(2.43)								
Supplemental Reserve Cost Distribution Amount	55500-0075		3,310.77	109.17		-								
Subtotal			(8,728.35)	39,580	4,958.09	39,580	(5,245.91)	51,550		51,550		45,942		45,942
Grand Total			4,905,731.21	39,580	103,786.95	39,580	(35,182.82)	51,550		51,550		45,942		45,942

MINNESOTA POWER		Account	Others - Non-Liquidation				Contract Sales				
MISO MONTHLY ALLOCATION		Number	December 2020	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		7,033,964.07								
Day Ahead Non-Asset Energy	55500-0027		(4,570,232.41)								
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		736,287.19								
Excessive Energy Amount	55500-0066		646.01								
Non-Excessive Energy Amount	55500-0069		25,198.14								
Real Time Non-Asset Energy	55500-0043		(437,826.63)								
Subtotal			2,788,036.37	184,288				105,129			
Day Ahead and Real Time Energy Loss											
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		1,130,863.43		170,095.11				49,179.58		
Day Ahead Financial Bilateral Transaction Loss	55500-0022		358,731.51		55,078.27				15,600.71		
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		47,108.80		7,085.72				2,048.69		
Real Time Distribution of Losses	55500-0041		(279,157.53)				(42,860.79)				(12,140.15)
Real Time Financial Bilateral Transaction Loss	55500-0038		-								
Subtotal			1,257,546.21	184,288	232,259.10	184,288	(42,860.79)	105,129	66,828.98	105,129	(12,140.15)
Virtual Energy											
Day Ahead Virtual Energy	55500-0030		-								
Real Time Virtual Energy	55500-0049		-								
Subtotal			-	184,288	-	184,288	-	105,129	-	105,129	-
Schedule 16 & 17 - 1/											
Day Ahead Market Administration (Schedule 17)	55500-0020		180,764.67		27,753.92				7,861.19		
Real Time Market Administration (Schedule 17)	55500-0036		21,158.76		3,248.64				920.16		
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		3,276.24		503.02				142.48		
Subtotal			205,199.67	184,288	31,505.58	184,288	-	105,129	8,923.83	105,129	-
Congestion, FTRs & ARRs											
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		905,309.74		136,169.19				39,370.59		
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(257,597.31)				(38,745.65)				(11,202.53)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		(12,534.67)				(1,924.53)				(545.11)
Real Time Financial Bilateral Transaction Congestion	55500-0037		-								
Auction Revenue Rights Transaction Amount	55500-0058		(57,905.38)				(8,890.57)				(2,518.22)
Financial Transmission Rights Annual Transaction Amount	55500-0059		64,837.53		9,954.91				2,819.69		
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		2,914.02		447.41				126.73		
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(67,699.29)				(10,394.29)				(2,944.14)
Financial Transmission Rights Hourly Allocation	55500-0032		(168,526.08)				(25,874.85)				(7,328.95)
Financial Transmission Rights Monthly Allocation	55500-0033		(12,834.44)				(1,970.55)				(558.15)
Financial Transmission Rights Yearly Allocation	55500-0035		-								
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(31,329.17)				(4,810.16)				(1,362.46)
FTR Guarantee Uplift Amount	55500-0055		29,309.19		4,500.02				1,274.61		
Financial Transmission Rights Monthly Transaction Amount	55500-0056		-								
Financial Transmission Rights Transaction	55500-0034		-								
Subtotal			393,944.14	184,288	151,071.53	184,288	(92,610.61)	105,129	43,591.62	105,129	(26,459.57)
RSG & Make Whole Payments											
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		30,914.42		4,746.48				1,344.42		
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(1,998.51)				(306.84)				(86.91)
Real Time Price Volatility Make Whole Payment	55500-0057		(17,335.65)				(2,661.65)				(753.90)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		42,632.29		6,545.60				1,854.02		
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		(3,193.27)				(490.28)				(138.87)
Subtotal			51,019.28	184,288	11,292.08	184,288	(3,458.78)	105,129	3,198.44	105,129	(979.68)
RNU & Misc Charges											
Real Time Miscellaneous	55500-0042		557.69		85.63				24.25		
Real Time Net Inadvertent Distribution	55500-0044		(2,884.92)				(442.94)				(125.46)
Real Time Revenue Neutrality Uplift Amount	55500-0045		208,874.74		32,069.83				9,083.65		
Real Time Uninstructed Deviation	55500-0048		-								
Demand Response Allocation Uplift Amount	55500-0077		526.16		80.78				22.88		
Day Ahead Ramp Capability Amount	55500-0079		(16.88)				(13.29)				(0.73)
Real Time Ramp Capability Amount	55500-0080		(18.84)				(2.89)				(0.82)
Real Time Schedule 49 Cost Distribution Amount	55500-0081		11,675.95		1,792.68				507.77		
Subtotal			218,713.90	184,288	34,028.93	184,288	(459.12)	105,129	9,638.56	105,129	(127.01)
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			-	184,288	-	184,288	-	105,129	-	105,129	-
ASM Charge Types (12 Other)											
Day Ahead Regulation Amount	55500-0062		(105,530.86)				(16,202.81)				(4,589.38)
Day Ahead Spinning Reserve Amount	55500-0063		(53,481.70)				(8,211.38)				(2,325.84)
Day Ahead Supplemental Reserve Amount	55500-0064		29.22		4.49				1.27		
Contingency Reserve Deployment Failure Charge Amount	55500-0065		-								
Net Regulation Adjustment Amount	55500-0068		3,283.76		504.18				142.81		
Real Time Regulation Amount	55500-0070		26,151.70		4,015.23				1,137.30		
Regulation Reserve Cost Distribution Amount	55500-0071		30,984.72		4,757.28				1,347.48		
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		39,796.17		6,110.15				1,730.68		
Real Time Spinning Reserve Amount	55500-0072		24,164.77		3,713.24				1,051.76		
Spinning Reserve Cost Distribution Amount	55500-0073		22,616.68		3,472.48				983.57		
Real Time Supplemental Reserve Amount	55500-0074		(73.58)				(11.30)				(3.20)
Supplemental Reserve Cost Distribution Amount	55500-0075		3,310.77		508.32				143.98		
Subtotal			(8,728.35)	184,288	23,085.36	184,288	(24,425.48)	105,129	6,538.84	105,129	(6,918.42)
Grand Total			4,905,731.21	184,288	483,242.58	184,288	(163,814.78)	105,129	138,720.27	105,129	(46,624.84)

MINNESOTA POWER MISO MONTHLY ALLOCATION		Account Number	January 2020 - December 2020	FPE Retail				FAC Resale				Subtotal 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	70,335,391.46 (39,582,803.02)								-	
5	Day Ahead Non-Asset Energy	44700-0000 or 55500-0000 or 55500-0050	8,858,437.03								-	
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	13,116.81								-	
	Excessive Energy Amount	55500-0066	3,970,274.51								-	
	Non-Excessive Energy Amount	55500-0069	(3,808,154.46)								-	
22	Real Time Non-Asset Energy	55500-0043									-	
	Subtotal		39,786,262.33	7,096,402	28,104,512	7,096,402	1,340,289	5,011,690	1,340,289	1,340,289	33,116,202.14	
Day Ahead and Real Time Energy Loss												
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	8,088,479.72	5,180,323.06	-	-	993,828.77	-	-	-	6,174,151.84	
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	3,959,709.39	2,558,286.49	-	-	498,677.57	-	-	-	3,056,964.05	
	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	17,203.37	133,150.83	(134,953.97)	-	27,246.71	(23,651.83)	-	-	1,791.73	
13c	Real Time Distribution of Losses	55500-0041	(2,150,745.86)	-	(1,399,302.18)	-	-	(261,295.75)	-	-	(1,660,597.93)	
16	Real Time Financial Bilateral Transaction Loss	55500-0038	6,944.50	4,707.23	(305.44)	-	1,043.70	(58.18)	-	-	5,387.32	
	Subtotal		9,211,591.12	7,096,402	7,876,467.61	7,096,402	1,340,289	1,520,796.74	1,340,289	(285,005.77)	7,577,697.00	
Virtual Energy												
12	Day Ahead Virtual Energy	55500-0030	-	-	-	-	-	-	-	-	-	
27	Real Time Virtual Energy	55500-0049	-	-	-	-	-	-	-	-	-	
	Subtotal		-	7,096,402	-	7,096,402	-	-	1,340,289	-	-	
Schedule 16 & 17 1/												
4	Day Ahead Market Administration (Schedule 17)	55500-0020	1,675,885.81	1,096,480.00	-	-	207,659.49	-	-	-	1,304,139.49	
19	Real Time Market Administration (Schedule 17)	55500-0036	187,030.55	121,771.77	-	-	23,197.51	-	-	-	144,969.29	
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	40,493.11	26,255.00	-	-	5,086.51	-	-	-	31,341.51	
	Subtotal		1,903,109.47	7,096,402	1,244,506.77	7,096,402	1,340,289	235,943.51	1,340,289	-	1,480,450.28	
Congestion, FTRs & ARR												
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	4,408,391.80	3,084,307.39	(203,844.22)	-	616,786.11	(46,442.51)	-	-	3,450,806.76	
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(2,112,960.93)	87,591.44	(1,507,413.26)	-	21,577.85	(279,183.13)	-	-	(1,677,427.10)	
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	6,044,743.79	3,876,762.73	(8,107.42)	-	755,262.87	(1,544.27)	-	-	4,622,373.90	
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	22,606.00	16,438.36	(2,287.20)	-	3,403.10	(435.66)	-	-	17,118.60	
	Auction Revenue Rights Transaction Amount	55500-0058	(1,546,462.63)	-	(1,000,529.22)	-	-	(196,551.89)	-	-	(1,197,081.11)	
	Financial Transmission Rights Annual Transaction Amount	55500-0059	2,011,277.91	1,291,236.25	-	-	252,513.81	-	-	-	1,543,750.86	
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	44,357.62	29,532.78	-	-	5,431.07	-	-	-	34,963.85	
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(815,482.43)	-	(533,675.34)	-	-	(102,134.39)	-	-	(635,809.72)	
28	Financial Transmission Rights Hourly Allocation	55500-0032	(4,444,938.90)	-	(2,878,368.53)	-	-	(576,447.76)	-	-	(3,454,816.29)	
30	Financial Transmission Rights Monthly Allocation	55500-0033	(262,834.29)	-	(168,729.57)	-	-	(30,407.18)	-	-	(199,136.75)	
32	Financial Transmission Rights Yearly Allocation	55500-0035	(1,734.13)	-	(1,164.47)	-	-	(205.49)	-	-	(1,369.96)	
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(144,466.28)	41,859.89	(138,108.28)	-	6,851.25	(27,598.59)	-	-	(116,995.74)	
	FTR Guarantee Uplift Amount	55500-0055	97,400.40	132,301.88	(67,427.52)	-	26,474.31	(11,369.90)	-	-	79,878.77	
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	212,108.87	136,609.72	-	-	26,820.97	-	-	-	163,430.69	
31	Financial Transmission Rights Transaction	55500-0034	-	-	-	-	-	-	-	-	-	
	Subtotal		3,512,006.80	7,096,402	8,696,640.44	7,096,402	1,340,289	1,715,121.33	1,340,289	(1,272,320.78)	2,629,785.94	
RSG & Make Whole Payments												
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	223,161.54	145,072.82	-	-	26,846.74	-	-	-	171,919.56	
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(95,796.85)	3,594.17	(64,918.41)	-	634.27	(13,233.01)	-	-	(73,322.98)	
	Real Time Price Volatility Make Whole Payment	55500-0057	(28,371.11)	-	(18,243.18)	-	-	(3,570.02)	-	-	(21,813.20)	
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	359,529.11	229,558.31	-	-	45,458.61	-	-	-	275,016.93	
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(486,499.30)	34,603.49	(340,738.77)	-	6,519.57	(80,237.99)	-	-	(379,853.71)	
	Subtotal		(37,976.61)	7,096,402	412,828.79	7,096,402	1,340,289	78,459.19	1,340,289	(97,041.02)	(28,653.40)	
RNU & Misc Charges												
20	Real Time Miscellaneous	55500-0042	180,889.07	132,348.61	(19,299.77)	-	30,134.88	(3,199.39)	-	-	139,984.43	
21	Real Time Net Inadvertent Distribution	55500-0044	7,837.03	104,504.04	(98,369.20)	-	21,641.61	(17,215.05)	-	-	10,561.41	
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	2,517,277.44	1,609,327.84	(28.04)	-	279,991.75	(6.58)	-	-	1,889,284.97	
26	Real Time Uninstructed Deviation	55500-0048	-	-	-	-	-	-	-	-	-	
	Demand Response Allocation Uplift Amount	55500-0077	715.24	501.86	(41.41)	-	91.30	(7.89)	-	-	543.86	
33	Day Ahead Ramp Capability Amount	55500-0079	(1,931.59)	-	-	-	-	-	-	-	-	
34	Real Time Ramp Capability Amount	55500-0080	(155.67)	55.47	(163.96)	-	9.78	(34.23)	-	-	(132.93)	
	Real Time Schedule 49 Cost Distribution Amount	55500-0081	267,898.43	179,313.14	-	-	32,866.19	-	-	-	212,179.33	
	Subtotal		2,972,529.95	7,096,402	2,026,050.96	7,096,402	1,340,289	364,735.62	1,340,289	(20,463.13)	2,252,421.06	
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		-	7,096,402	-	7,096,402	-	-	1,340,289	-	-	
ASM Charge Types (12 Other)												
	Day Ahead Regulation Amount	55500-0062	(854,989.21)	-	(558,854.64)	-	-	(105,316.99)	-	-	(664,171.82)	
	Day Ahead Spinning Reserve Amount	55500-0063	(472,817.91)	-	(310,179.43)	-	-	(60,144.42)	-	-	(370,323.85)	
	Day Ahead Supplemental Reserve Amount	55500-0064	(736.20)	22.62	(485.45)	-	4.24	(87.36)	-	-	(545.94)	
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	20.89	136.33	(117.80)	-	31.39	(22.44)	-	-	27.49	
	Net Regulation Adjustment Amount	55500-0068	6,325.27	6,055.37	(2,003.97)	-	1,198.40	(340.18)	-	-	4,309.57	
23	Real Time Regulation Amount	55500-0070	293,724.39	193,481.19	-	-	35,993.86	-	-	-	229,475.05	
	Regulation Reserve Cost Distribution Amount	55500-0071	342,307.29	224,842.93	-	-	42,041.23	-	-	-	266,884.16	
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	268,959.02	174,825.25	(2,649.78)	-	32,873.14	-	-	-	207,698.39	
	Real Time Spinning Reserve Amount	55500-0072	131,848.25	89,231.83	(16,247.61)	-	16,247.61	(553.06)	-	-	102,276.60	
	Spinning Reserve Cost Distribution Amount	55500-0073	222,993.62	146,509.22	-	-	27,776.38	-	-	-	174,285.60	
	Real Time Supplemental Reserve Amount	55500-0074	(518.85)	186.86	(502.65)	-	31.23	(116.79)	-	-	(401.35)	
	Supplemental Reserve Cost Distribution Amount	55500-0075	38,102.35	24,963.65	-	-	4,647.65	-	-	-	29,611.31	
	Subtotal		(24,781.09)	7,096,402	860,255.21	7,096,402	1,340,289	160,845.13	1,340,289	(166,581.22)	(20,274.79)	
	Grand Total		58,032,741.77	7,096,402	49,221,261.47	7,096,402	1,340,289	9,088,591.98	1,340,289	(1,841,411.92)	47,007,628.23	

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 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-

MINNESOTA POWER MISO MONTHLY ALLOCATION		Account Number	January 2020 - December 2020	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		70,335,391.46												
Day Ahead Non-Asset Energy	55500-0027		(39,582,803.02)												
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		8,858,437.03												
Excessive Energy Amount	55500-0066		13,116.81												
Non-Excessive Energy Amount	55500-0069		3,970,274.51												
Real Time Non-Asset Energy	55500-0043		(3,808,154.46)												
Subtotal			39,786,262.33	224,381				572,333				531,243			
Day Ahead and Real Time Energy Loss															
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		8,088,479.72		221,242.90		-		-		-		-		-
Day Ahead Financial Bilateral Transaction Loss	55500-0022		3,959,709.39		95,087.75		-		-		-		-		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		17,203.37		8,686.99		(627.83)		-		-		-		-
Real Time Distribution of Losses	55500-0041		(2,150,745.86)		-		(42,600.87)		-		-		-		-
Real Time Financial Bilateral Transaction Loss	55500-0038		6,944.50		350.83		(17.83)		-		-		-		-
Subtotal			9,921,591.12	224,381	325,368.47	224,381	(43,246.52)	572,333	-	572,333	-	531,243	-	531,243	-
Virtual Energy															
Day Ahead Virtual Energy	55500-0030		-												
Real Time Virtual Energy	55500-0049		-												
Subtotal			-	224,381	-	224,381	-	572,333	-	572,333	-	531,243	-	531,243	-
Schedule 16 & 17 /															
Day Ahead Market Administration (Schedule 17)	55500-0020		1,675,585.81		34,964.18		-		-		-		-		-
Real Time Market Administration (Schedule 17)	55500-0036		187,030.55		4,172.98		-		-		-		-		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		40,493.11		943.90		-		-		-		-		-
Subtotal			1,903,109.47	224,381	40,081.06	224,381	-	572,333	-	572,333	-	531,243	-	531,243	-
Congestion, FTRs & ARRs															
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		4,408,391.80		124,936.12		(31,437.81)		-		-		-		-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(2,112,960.93)		5,852.12		(42,509.64)		-		-		-		-
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		6,044,743.79		158,071.97		(413.33)		-		-		-		-
Real Time Financial Bilateral Transaction Congestion	55500-0037		22,606.00		992.22		(133.50)		-		-		-		-
Auction Revenue Rights Transaction Amount	55500-0058		(1,546,462.63)		-		(39,615.57)		-		-		-		-
Financial Transmission Rights Annual Transaction Amount	55500-0059		2,011,277.91		52,288.59		-		-		-		-		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		44,357.62		631.12		-		-		-		-		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(815,482.43)		-		(17,741.87)		-		-		-		-
Financial Transmission Rights Hourly Allocation	55500-0032		(4,444,938.90)		-		(117,957.55)		-		-		-		-
Financial Transmission Rights Monthly Allocation	55500-0033		(262,834.29)		-		(4,998.21)		-		-		-		-
Financial Transmission Rights Yearly Allocation	55500-0035		(1,734.13)		-		(2.34)		-		-		-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(144,468.28)		-		(5,664.53)		-		-		-		-
FTR Guarantee Uplift Amount	55500-0055		97,400.40		816.31		(675.78)		-		-		-		-
Financial Transmission Rights Monthly Transaction Amount	55500-0056		212,108.87		4,684.67		-		-		-		-		-
Financial Transmission Rights Transaction	55500-0034		-		-		-		-		-		-		-
Subtotal			3,512,006.80	224,381	353,750.48	224,381	(261,350.13)	572,333	-	572,333	-	531,243	-	531,243	-
RSG & Make Whole Payments															
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		223,161.54		4,468.95		(2,320.81)		-		-		-		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(95,796.85)		4.63		(878.23)		-		-		-		-
Real Time Price Volatility Make Whole Payment	55500-0057		(28,371.11)		-		-		-		-		-		-
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		359,529.11		9,861.73		-		-		-		-		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		(496,499.30)		743.31		(19,423.93)		-		-		-		-
Subtotal			(37,976.61)	224,381	15,078.61	224,381	(22,622.98)	572,333	-	572,333	-	531,243	-	531,243	-
RNU & Misc Charges															
Real Time Miscellaneous	55500-0042		180,889.07		6,598.12		(139.53)		-		-		-		-
Real Time Net Inadvertent Distribution	55500-0044		7,837.03		3,806.77		(2,343.77)		-		-		-		-
Real Time Revenue Neutrality Uplift Amount	55500-0045		2,517,277.44		42,216.38		(2.44)		-		-		-		-
Real Time Uninstructed Deviation	55500-0048		-		-		-		-		-		-		-
Demand Response Allocation Uplift Amount	55500-0077		715.24		20.77		(2.42)		-		-		-		-
Day Ahead Ramp Capability Amount	55500-0079		(1,931.59)		-		(453.00)		-		-		-		-
Real Time Ramp Capability Amount	55500-0080		(155.67)		1.24		(6.96)		-		-		-		-
Real Time Schedule 49 Cost Distribution Amount	55500-0081		267,898.43		4,050.59		-		-		-		-		-
Subtotal			2,972,529.95	224,381	56,693.88	224,381	(2,948.12)	572,333	-	572,333	-	531,243	-	531,243	-
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			-	224,381	-	224,381	-	572,333	-	572,333	-	531,243	-	531,243	-
ASM Charge Types (12 Other)															
Day Ahead Regulation Amount	55500-0062		(854,989.21)		-		(17,098.45)		-		-		-		-
Day Ahead Spinning Reserve Amount	55500-0063		(472,817.91)		-		(10,786.29)		-		-		-		-
Day Ahead Supplemental Reserve Amount	55500-0064		(736.20)		0.97		(16.07)		-		-		-		-
Contingency Reserve Deployment Failure Charge Amount	55500-0065		20.89		11.25		(5.23)		-		-		-		-
Net Regulation Adjustment Amount	55500-0066		6,325.27		246.10		(11.68)		-		-		-		-
Real Time Regulation Amount	55500-0070		293,724.39		4,999.51		-		-		-		-		-
Regulation Reserve Cost Distribution Amount	55500-0071		342,307.29		6,580.99		-		-		-		-		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		268,959.02		5,631.02		-		-		-		-		-
Real Time Spinning Reserve Amount	55500-0072		131,848.25		2,415.90		(93.78)		-		-		-		-
Spinning Reserve Cost Distribution Amount	55500-0073		222,993.62		4,613.08		-		-		-		-		-
Real Time Supplemental Reserve Amount	55500-0074		(518.85)		3.83		(31.70)		-		-		-		-
Supplemental Reserve Cost Distribution Amount	55500-0075		38,102.35		708.45		-		-		-		-		-
Subtotal			(24,781.09)	224,381	25,213.10	224,381	(28,043.20)	572,333	-	572,333	-	531,243	-	531,243	-
Grand Total			58,032,741.97	224,381	816,185.61	224,381	(358,210.96)	572,333	-	572,333	-	531,243	-	531,243	-

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		70,335,391.46								
Day Ahead Non-Asset Energy	55500-0027		(39,582,803.02)								
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		8,858,437.03								
Excessive Energy Amount	55500-0066		13,116.81								
Non-Excessive Energy Amount	55500-0069		3,970,274.51								
Real Time Non-Asset Energy	55500-0043		(3,808,154.46)								
Subtotal			39,786,262.33		1,383,242				1,720,836		
Day Ahead and Real Time Energy Loss											
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		8,088,479.72		1,087,913.79		-		605,171.19		-
Day Ahead Financial Bilateral Transaction Loss	55500-0022		3,959,709.39		535,867.11		-		271,790.49		-
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		17,203.37		36,338.68		(14,855.66)		10,812.83		(24,943.38)
Real Time Distribution of Losses	55500-0041		(2,150,745.86)		-		(275,414.60)		-		(172,132.46)
Real Time Financial Bilateral Transaction Loss	55500-0038		6,944.50		919.98		(102.82)		427.78		(20.76)
Subtotal			9,921,591.12		1,383,242		1,661,039.56		1,383,242		(290,373.08)
Virtual Energy											
Day Ahead Virtual Energy	55500-0030		-		-		-		-		-
Real Time Virtual Energy	55500-0049		-		-		-		-		-
Subtotal			-		1,383,242		-		1,383,242		-
Schedule 16 & 17 1/											
Day Ahead Market Administration (Schedule 17)	55500-0020		1,675,585.81		203,614.52		-		132,867.62		-
Real Time Market Administration (Schedule 17)	55500-0036		187,030.55		23,679.74		-		14,208.54		-
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		40,493.11		5,238.38		-		2,969.32		-
Subtotal			1,903,109.47		1,383,242		232,532.64		1,383,242		-
Congestion, FTRs & ARRs											
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050		4,408,391.80		680,534.44		(52,827.32)		258,888.23		(22,508.63)
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050		(2,112,960.93)		18,786.69		(238,514.52)		8,548.14		(187,696.62)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		6,044,743.79		878,055.67		(1,924.53)		389,125.23		(545.11)
Real Time Financial Bilateral Transaction Congestion	55500-0037		22,606.00		4,199.46		(769.97)		1,354.61		(165.42)
Auction Revenue Rights Transaction Amount	55500-0058		(1,546,462.63)		-		(205,183.01)		-		(104,582.94)
Financial Transmission Rights Annual Transaction Amount	55500-0059		2,011,277.91		285,881.25		-		129,358.01		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		44,357.62		4,443.67		-		4,318.98		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(815,482.43)		-		(99,042.94)		-		(62,887.90)
Financial Transmission Rights Hourly Allocation	55500-0032		(4,444,938.90)		-		(617,656.24)		-		(254,508.81)
Financial Transmission Rights Monthly Allocation	55500-0033		(262,834.29)		-		(44,610.64)		-		(14,088.69)
Financial Transmission Rights Yearly Allocation	55500-0035		(1,734.13)		-		(112.95)		-		(248.88)
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(144,468.28)		13,412.19		(27,548.34)		3,276.37		(11,762.55)
FTR Guarantee Uplift Amount	55500-0055		97,400.40		26,471.74		(15,889.57)		10,949.66		(8,711.79)
Financial Transmission Rights Monthly Transaction Amount	55500-0056		212,108.87		29,067.81		-		14,925.71		-
Financial Transmission Rights Transaction	55500-0034		-		-		-		-		-
Subtotal			3,512,006.80		1,383,242		1,940,852.92		1,383,242		(1,304,080.01)
RSG & Make Whole Payments											
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		223,161.54		30,237.40		-		16,535.63		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(95,796.83)		354.12		(13,070.11)		765.27		(7,606.96)
Real Time Price Volatility Make Whole Payment	55500-0057		(28,371.11)		-		(4,270.33)		-		(1,409.35)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		359,529.11		52,113.50		-		22,536.96		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		(496,499.30)		5,342.38		(68,764.56)		3,219.73		(37,762.52)
Subtotal			(37,976.61)		1,383,242		88,047.40		1,383,242		(46,778.83)
RNU & Misc Charges											
Real Time Miscellaneous	55500-0042		180,889.07		22,926.79		(2,669.77)		17,365.57		(3,176.54)
Real Time Net Inadvertent Distribution	55500-0044		7,837.03		16,417.71		(23,635.88)		13,025.05		(9,994.26)
Real Time Revenue Neutrality Uplift Amount	55500-0045		2,517,277.44		441,823.11		(4.01)		143,962.18		(2.76)
Real Time Uninstructed Deviation	55500-0048		-		-		-		-		-
Demand Response Allocation Uplift Amount	55500-0077		715.24		135.16		(13.94)		34.62		(2.81)
Day Ahead Ramp Capability Amount	55500-0079		(1,931.59)		-		(1,360.25)		-		(118.33)
Real Time Ramp Capability Amount	55500-0080		(155.67)		11.53		(21.47)		7.20		(14.28)
Real Time Schedule 49 Cost Distribution Amount	55500-0081		267,898.43		26,247.93		-		25,420.58		-
Subtotal			2,972,529.95		1,383,242		507,562.24		1,383,242		(27,705.32)
Grandfathered Charge Types											
Day Ahead Congestion Rebate on Carve-Out Grandfathered	55500-0023		-		-		-		-		-
Day Ahead Losses Rebate on Carve-Out Grandfathered	55500-0024		-		-		-		-		-
Day Ahead Congestion Rebate on Option B Grandfathered	55500-0025		-		-		-		-		-
Day Ahead Losses Rebate on Option B Grandfathered	55500-0026		-		-		-		-		-
Real Time Losses Rebate on Carve-Out Grandfathered	55500-0040		-		-		-		-		-
Real Time Congestion Rebate on Carve-Out Grandfathered	55500-0039		-		-		-		-		-
Subtotal			-		1,383,242		-		1,383,242		-
ASM Charge Types (12 Other)											
Day Ahead Regulation Amount	55500-0062		(854,989.21)		-		(106,349.05)		-		(67,369.89)
Day Ahead Spinning Reserve Amount	55500-0063		(472,817.91)		-		(55,823.45)		-		(35,884.32)
Day Ahead Supplemental Reserve Amount	55500-0064		(736.20)		4.83		(138.25)		2.04		(43.78)
Contingency Reserve Deployment Failure Charge Amount	55500-0065		20.89		21.00		(38.05)		13.02		(8.58)
Net Regulation Adjustment Amount	55500-0066		6,325.27		1,192.36		(229.74)		583.94		(367.28)
Real Time Regulation Amount	55500-0070		293,724.99		33,641.88		-		25,807.95		-
Regulation Reserve Cost Distribution Amount	55500-0071		342,307.29		41,204.12		-		27,638.02		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067		268,959.02		35,518.81		-		20,110.80		-
Real Time Spinning Reserve Amount	55500-0072		131,848.25		17,617.62		(312.99)		10,270.53		(325.62)
Spinning Reserve Cost Distribution Amount	55500-0073		222,993.62		26,733.21		-		17,361.73		-
Real Time Supplemental Reserve Amount	55500-0074		(518.85)		56.67		(113.14)		14.35		(47.51)
Supplemental Reserve Cost Distribution Amount	55500-0075		38,102.35		4,720.95		-		3,061.64		-
Subtotal			(24,781.09)		1,383,242		160,711.45		1,383,242		(163,004.67)
Grand Total			58,032,741.97		1,383,242		4,590,746.20		1,383,242		(1,871,268.07)

**PUBLIC DOCUMENT –
TRADE SECRET DATA EXCISED**

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

**PUBLIC DOCUMENT –
TRADE SECRET DATA EXCISED**

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

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

		2019 / 2020 Annual Allocation				2020 / 2021 Annual Allocation					
		Winter 2019/2020		Spring 2020		Summer 2020		Fall 2020		Winter 2020/2021	
Source	Sink	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak
[TRADE SECRET DATA BEGINS [REDACTED]											
TRADE SECRET DATA ENDS]											

**PUBLIC DOCUMENT –
TRADE SECRET DATA EXCISED**

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

Monthly FTR Purchases						
Source	Sink	Class Period	Month	Awarded FTRs	Clearing (\$/MW-Month)	Total Monthly Cost
[TRADE SECRET DATA BEGINS						
[REDACTED DATA]						
]TRADE SECRET DATA ENDS]						

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 BEGINS						
[REDACTED DATA]						
]TRADE SECRET DATA ENDS]						

**PUBLIC DOCUMENT –
TRADE SECRET DATA 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-20	\$145,614.13	(\$196,449.16)
Feb-20	\$118,622.19	(\$225,687.19)
Mar-20	\$77,945.90	(\$215,539.54)
Apr-20	\$112,870.98	(\$248,249.52)
May-20	\$77,445.18	(\$251,464.00)
Jun-20	\$240,665.04	(\$604,418.74)
Jul-20	\$354,256.46	(\$1,050,687.35)
Aug-20	\$319,003.92	(\$1,649,642.14)
Sep-20	\$364,930.80	(\$756,853.35)
Oct-20	\$287,011.58	(\$920,586.82)
Nov-20	\$350,947.22	(\$618,420.00)
Dec-20	\$71,040.03	(\$328,552.40)

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-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Total
Financial Transmission Rights Market Administration Amount	Cost	3,799.28	3,310.08	1,801.04	1,613.76	1,300.32	4,216.32	4,733.04	4,324.08	5,029.44	3,526.72	3,557.60	3,288.48	40,500.16
Auction Revenue Rights Transaction Amount	Revenue	(72,545.70)	(72,545.70)	(78,417.68)	(78,417.68)	(78,417.68)	(194,393.94)	(194,393.94)	(194,393.94)	(175,010.33)	(175,010.33)	(175,010.33)	(57,905.38)	(1,546,462.63)
Financial Transmission Rights Annual Transaction Amount	Cost	92,311.20	92,311.20	71,696.81	71,696.81	71,696.81	234,634.98	234,634.98	234,634.98	280,940.87	280,940.87	280,940.87	64,837.53	2,011,277.91
Auction Revenue Rights Infeasible Uplift Amount	Cost	7,513.13	7,513.13	4,448.05	4,448.05	4,448.05	1,813.74	1,813.74	1,813.74	2,543.99	2,543.99	2,543.99	2,914.02	44,357.62
Auction Revenue Rights Stage 2 Distribution Amount	Revenue	(66,690.22)	(66,690.22)	(59,942.41)	(59,942.41)	(59,942.41)	(72,349.83)	(72,349.83)	(72,349.83)	(72,508.66)	(72,508.66)	(72,508.66)	(67,699.29)	(815,482.43)
Financial Transmission Rights Full Funding Guarantee Amount	Revenue	(2,466.91)	-	-	(3,271.85)	(2,833.74)	(11,076.72)	-	-	(50,941.49)	(28,278.11)	(15,891.41)	(33,414.63)	(148,174.86)
FTR Guarantee Uplift Amount	Revenue	2,405.34	-	-	2,937.03	3,082.59	9,357.84	-	-	51,424.07	26,288.47	13,778.57	33,414.63	142,688.54
Financial Transmission Rights Monthly Transaction Amount	Cost	20,995.26	7,743.89	-	17,556.18	-	-	56,537.35	39,115.56	38,208.25	-	31,952.38	-	212,108.87
Financial Transmission Rights Hourly Allocation Amount	Revenue	(51,574.32)	(79,241.06)	(73,696.93)	(100,095.44)	(107,901.41)	(322,322.88)	(743,758.25)	(1,256,338.43)	(494,388.23)	(650,498.66)	(355,921.33)	(202,947.73)	(4,438,684.67)
Financial Transmission Rights Monthly Allocation Amount	Revenue	(5,577.35)	(7,210.21)	(3,482.52)	(9,459.17)	(5,451.35)	(13,633.21)	(40,185.33)	(126,559.94)	(15,428.71)	(20,579.53)	(12,866.84)	-	(260,434.16)
Financial Transmission Rights Transaction Amount	Cost	20,995.26	7,743.89	-	17,556.18	-	-	56,537.35	39,115.56	38,208.25	-	31,952.38	-	212,108.87
Financial Transmission Rights Yearly Allocation Amount	Revenue	-	-	-	-	-	-	-	-	-	-	-	-	-
Costs of hold FTRs		145,614.13	118,622.19	77,945.90	112,870.98	77,445.18	240,665.04	354,256.46	319,003.92	364,930.80	287,011.58	350,947.22	71,040.03	2,520,353.43
Revenue Generated from ARRIFTRs		(196,449.16)	(225,687.19)	(215,539.54)	(248,249.52)	(251,464.00)	(604,418.74)	(1,050,687.35)	(1,649,642.14)	(756,853.35)	(920,586.82)	(618,420.00)	(328,552.40)	(7,066,550.21)

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.

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

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

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

A tube leak usually begins as a very small hole (0.10 inch or less) in the tube wall which can expand rapidly due to the high temperature and pressure. Considering the huge surface area in a boiler and the very small size of 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 2020 through December 2020:

1. Identification for the period of January 2020 through December 2020 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.
2. Please provide a narrative fully explaining the reasons for the delays and/or lack of performance for each of the contracts identified above.
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.

Identification and explanation of outage delays

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.

Reasons for Delay and/or Lack of Performance

N/A

Lessons Learned and Contingency plans utilized

N/A

Generation Outage Detail
January 2020 - December 2020

Unit	Event Type	Primary Reason for the Outage	GADS Equivalent MWh lost (MP Only)	GADS Start Date/Time of Actual Outage	GADS 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 SH Tube Leak	29,844	1/13/20 9:27	1/16/20 22:14	Superheat tube leak.	Thinning caused by metal on metal contact.	The damaged steam cooled spacer tube was replaced and other tubes in the area were inspected. Air test completed and no additional leaks found. All steam cooled spacer tubes will be inspected and repaired as needed at the next planned outage.	\$120,402
BEC 4	Unplanned Outage	Bunker Fire	797	3/31/20 22:17	4/1/20 0:00	Coal Bunker Fire in 4G and 4F Bunkers.	Coal dust accumulation on bunker expansion joints spontaneously combusted, causing a fire.	Bunkers were emptied and cleaned to avoid explosion hazards during work. The failed expansion joints were replaced and remaining expansion joints were modified in all seven bunkers. During the spring 2021 outage, the expansion joints that were modified will be replaced with a new design that won't allow coal accumulation.	(\$7,804)
BEC 4	Unplanned Outage	Bunker Fire	283,999	4/1/20 0:00	4/26/20 12:04	Coal Bunker Fire in 4G and 4F Bunkers.	Coal dust accumulation on bunker expansion joints spontaneously combusted, causing a fire.	Bunkers were emptied and cleaned to avoid explosion hazards during work. The failed expansion joints were replaced and remaining expansion joints were modified in all seven bunkers. During the spring 2021 outage, the expansion joints that were modified will be replaced with a new design that won't allow coal accumulation.	(\$1,460,825)
BEC 4	Unplanned Outage	Reheat Inlet Expansion Leak	11,136	5/29/20 11:41	5/30/20 11:41	Reheat spray block valve.	Boiler tripped as designed. Reheat spray block valve did not operate correctly and introduced water to the turbine and when it flashed, steam came out of the Reheat Inlet Flange at the turbine.	Repaired Reheat Spray Block Valve and replaced Turbine Reheat Inlet Flange Gasket. During fall 2020 outage, replaced Reheat Spray Block Valve.	(\$6,570)
BEC 4	Unplanned Outage	4A Boiler Feedpump Repair	93,241	5/30/20 11:41	6/7/20 20:38	4A Main Boiler Feedpump.	Pump siezed during startup following the bunker fire outage. Repairs were delayed due to power demands during the Covid recession. The cause was attributed to operations misinterpreting written procedures.	The pump was rebuilt and operating procedures updated and retraining provided. Additional alarms and protocols established and we are continuing to optimize.	(\$151,978)
BEC 4	Unplanned Outage	Superheat Block Valve Repair	15,436	6/8/20 10:37	6/9/20 19:53	4B Superheat Spray Block Valve.	Failure due to harsh service environment coupled with a near end of life run time.	Replacing the valve in spring 2021.	(\$36,764)
BEC 3	Unplanned Outage	Boiler Waterwall Leak	17,412	8/24/20 22:18	8/26/20 23:46	Waterwall Tube Leak.	Corrosion fatigue.	Three leaks were ground out and repaired following MN Power Weld Program guidelines. Inspected surrounding area and nothing noted. Air test completed and no additional leaks found.	\$44,485
BEC 3	Unplanned Outage	Boiler Tube Leak	19,067	12/24/20 20:35	12/27/20 2:45	Steam cooled spacer tube.	Steam cooled spacer tube failed due to ash erosion thinning the tube and causing the tube to fail.	Tube was replaced and the area was inspected and repaired. Air test completed and no additional leaks found. All similar areas will be inspected during the fall 2021 outage.	\$74,695
BEC 3	Unplanned Outage	Boiler Circ Pump 3A - Broken Shaft	19,384	12/27/20 2:45	12/29/20 9:49	3A Boiler Circulating Pump (BCP) failed.	3A BCP seal failed due to lack of lubrication/cooling water flow at the seal to pumpshaft interface.	Programming for all U3 BCP's was added to ensure OEM recommended injection pressure is adequate.	\$46,254

Generation Outage - Forecast to Actual Costs
January 2020 - December 2020

	YTD 2020			Jan-20			Feb-20			Mar-20		
	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	11.0	(13.0)	2.0	4.0	2.0	2.0	0.0	(2.0)	2.0	0.0	(2.0)
Forced MWh's	182,862	71,361	(111,501)	15,488	29,141	13,652	14,489	0	(14,489)	15,488	0	(15,488)
Purchase Price	[TRADE SECRET DATA BEGINS]											
Total Forced Cost	[REDACTED]											
Unit Cost	[REDACTED]											
Incremental Cost	\$583,983	\$285,836	(\$298,147)	\$189,521	\$120,402	(\$69,119)	\$116,067	\$0	(\$116,067)	\$87,062	\$0	(\$87,062)
Planned Days	9.5	18.0	8.5	0.0	0.0	0.0	5.0	0.0	(5.0)	0.0	0.0	0.0
Planned MWh's	79,596	54,161	(25,435)	0	0	0	41,825	0	(41,825)	0	0	0
Purchase Price	[TRADE SECRET DATA BEGINS]											
Total Planned Cost	[REDACTED]											
Unit Cost	[REDACTED]											
Incremental Cost	\$432,373	(\$132,814)	(\$565,187)	\$0	\$0	\$0	\$335,045	\$0	(\$335,045)	\$0	\$0	\$0
Purchase Price	[TRADE SECRET DATA BEGINS]											
Total Outage Costs	[REDACTED]											
Total Incremental Costs	\$1,016,356	\$153,022	(\$863,334)	\$189,521	\$120,402	(\$69,119)	\$451,111	\$0	(\$451,111)	\$87,062	\$0	(\$87,062)
	YTD 2020			Jan-20			Feb-20			Mar-20		
	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	37.1	25.1	1.0	0.0	(1.0)	1.0	0.0	(1.0)	1.0	0.1	(0.9)
Forced MWh's	123,229	257,291	134,062	10,437	0	(10,437)	9,764	0	(9,764)	10,437	928	(9,509)
Purchase Price	[TRADE SECRET DATA BEGINS]											
Total Cost	[REDACTED]											
Unit Cost	[REDACTED]											
Incremental Cost	\$437,860	(\$1,663,941)	(\$2,101,801)	\$131,560	\$0	(\$131,560)	\$81,932	\$0	(\$81,932)	\$63,020	(\$7,804)	(\$70,824)
Planned Days	60.5	8.0	(52.5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Planned MWh's	674,068	39,026	(635,042)	0	0	0	0	0	0	0	0	0
Purchase Price	[TRADE SECRET DATA BEGINS]											
Total Cost	[REDACTED]											
Unit Cost	[REDACTED]											
Incremental Cost	\$3,009,114	(\$160,432)	(\$3,169,547)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Outage Costs	[REDACTED]											
Total Incremental Costs	\$3,446,975	(\$1,824,373)	(\$5,271,347)	\$131,560	\$0	(\$131,560)	\$81,932	\$0	(\$81,932)	\$63,020	(\$7,804)	(\$70,824)
Purchase Price	[TRADE SECRET DATA BEGINS]											
Total Outage Costs	[REDACTED]											
Total Incremental Costs	\$4,463,331	(\$1,671,351)	(\$6,134,681)	\$321,081	\$120,402	(\$200,679)	\$533,044	\$0	(\$533,044)	\$150,082	(\$7,804)	(\$157,887)

Generation Outage - Forecast to Actual Costs
January 2020 - December 2020

	Apr-20			May-20			Jun-20			Jul-20		
	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	2.0	0.0	(2.0)	2.0	0.0	(2.0)	2.0	0.0	(2.0)	2.0	0.0	(2.0)
Forced MWh's	14,989	0	(14,989)	15,488	0	(15,488)	14,989	0	(14,989)	15,488	0	(15,488)
Purchase Price	[REDACTED]											
Total Forced Cost	[REDACTED]											
Unit Cost	[REDACTED]											
Incremental Cost	\$70,618	\$0	(\$70,618)	\$64,229	\$0	(\$64,229)	(\$39,730)	\$0	\$39,730	\$14,588	\$0	(\$14,588)
Planned Days	0.0	3.0	3.0	0.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
Planned MWh's	0	12,147	12,147	0	18,022	18,022	0	0	0	0	0	0
Purchase Price	[REDACTED]											
Total Planned Cost	[REDACTED]											
Unit Cost	[REDACTED]											
Incremental Cost	\$0	(\$59,645)	(\$59,645)	\$0	(\$84,806)	(\$84,806)	\$0	\$0	\$0	\$0	\$0	\$0
Total Outage Costs	[REDACTED]											
Total Incremental Costs	\$70,618	(\$59,645)	(\$130,263)	\$64,229	(\$84,806)	(\$149,035)	(\$39,730)	\$0	\$39,730	\$14,588	\$0	(\$14,588)
	Apr-20			May-20			Jun-20			Jul-20		
	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	1.0	26.0	25.0	1.0	3.0	2.0	1.0	8.0	7.0	1.0	0.0	(1.0)
Forced MWh's	10,101	220,654	210,553	10,437	4,681	(5,756)	10,101	31,028	20,927	10,437	0	(10,437)
Purchase Price	[REDACTED]											
Total Cost	[REDACTED]											
Unit Cost	[REDACTED]											
Incremental Cost	\$51,981	(\$1,460,825)	(\$1,512,807)	\$42,797	(\$8,701)	(\$51,498)	(\$22,812)	(\$186,610)	(\$163,798)	\$13,985	\$0	(\$13,985)
Planned Days	27.0	0.0	(27.0)	28.0	0.0	(28.0)	0.0	0.0	0.0	0.0	0.0	0.0
Planned MWh's	301,097	0	(301,097)	311,762	0	(311,762)	0	0	0	0	0	0
Purchase Price	[REDACTED]											
Total Cost	[REDACTED]											
Unit Cost	[REDACTED]											
Incremental Cost	\$1,549,534	\$0	(\$1,549,534)	\$1,278,331	\$0	(\$1,278,331)	\$0	\$0	\$0	\$0	\$0	\$0
Total Outage Costs	[REDACTED]											
Total Incremental Costs	\$1,601,515	(\$1,460,825)	(\$3,062,340)	\$1,321,129	(\$8,701)	(\$1,329,829)	(\$22,812)	(\$186,610)	(\$163,798)	\$13,985	\$0	(\$13,985)
Total Outage Costs	[REDACTED]											
Total Incremental Costs	\$1,672,133	(\$1,520,470)	(\$3,192,603)	\$1,385,358	(\$93,506)	(\$1,478,864)	(\$62,542)	(\$186,610)	(\$124,068)	\$28,573	\$0	(\$28,573)

Generation Outage - Forecast to Actual Costs
January 2020 - December 2020

	Aug-20			Sep-20			Oct-20		
	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	2.0	0.0	2.0	0.0	(2.0)	2.0	0.0	(2.0)
Forced MWh's	15,488	12,616	(2,873)	14,989	0	(14,989)	15,488	0	(15,488)
Purchase Price									
Total Forced Cost									
Unit Cost									
Incremental Cost	\$30,193	\$44,485	\$14,292	(\$67,684)	\$0	\$67,684	\$39,910	\$0	(\$39,910)
Planned Days	0.0	0.0	0.0	0.0	0.0	0.0	4.5	6.0	1.5
Planned MWh's	0	0	0	0	0	0	37,771	13,203	(24,568)
Purchase Price									
Total Planned Cost									
Unit Cost									
Incremental Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$97,328	\$45,909	(\$51,419)
Total Outage Costs									
Total Incremental Costs	\$30,193	\$44,485	\$14,292	(\$67,684)	\$0	\$67,684	\$137,239	\$45,909	(\$91,330)
	Aug-20			Sep-20			Oct-20		
	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	0.0	(1.0)
Forced MWh's	10,437	0	(10,437)	10,101	0	(10,101)	10,437	0	(10,437)
Purchase Price									
Total Cost									
Unit Cost									
Incremental Cost	\$24,528	\$0	(\$24,528)	(\$41,617)	\$0	\$41,617	\$30,907	\$0	(\$30,907)
Planned Days	0.0	0.0	0.0	0.0	3.0	3.0	5.5	5.0	(0.5)
Planned MWh's	0	0	0	0	9,984	9,984	61,209	29,042	(32,168)
Purchase Price									
Total Cost									
Unit Cost									
Incremental Cost	\$0	\$0	\$0	\$0	(\$61,660)	(\$61,660)	\$181,249	(\$98,772)	(\$280,021)
Total Outage Costs									
Total Incremental Costs	\$24,528	\$0	(\$24,528)	(\$41,617)	(\$61,660)	(\$20,043)	\$212,156	(\$98,772)	(\$310,928)
Total Outage Costs									
Total Incremental Costs	\$54,720	\$44,485	(\$10,236)	(\$109,301)	(\$61,660)	\$47,640	\$349,395	(\$52,863)	(\$402,257)

Generation Outage - Forecast to Actual Costs
January 2020 - December 2020

	Nov-20			Dec-20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 3	350	350		350	350	
Forced Days	2.0	0.0	(2.0)	2.0	5.0	3.0
Forced MWh's	14,989	0	(14,989)	15,488	29,605	14,116
Purchase Price						
Total Forced Cost						
Unit Cost						
Incremental Cost	\$28,222	\$0	(\$28,222)	\$50,985	\$120,949	\$69,964
Planned Days	0.0	3.0	3.0	0.0	0.0	0.0
Planned MWh's	0	10,790	10,790	0	0	0
Purchase Price						
Total Planned Cost						
Unit Cost						
Incremental Cost	\$0	(\$34,272)	(\$34,272)	\$0	\$0	\$0
Total Outage Costs						
Total Incremental Costs	\$28,222	(\$34,272)	(\$62,495)	\$50,985	\$120,949	\$69,964
	Nov-20			Dec-20		
	Forecast	Actual	Difference: Over/(Under)	Forecast	Actual	Difference: Over/(Under)
Boswell 4	464	464		464	464	
Forced Days	1.0	0.0	(1.0)	1.0	0.0	(1.0)
Forced MWh's	10,101	0	(10,101)	10,437	0	(10,437)
Purchase Price						
Total Cost						
Unit Cost						
Incremental Cost	\$23,048	\$0	(\$23,048)	\$38,531	\$0	(\$38,531)
Planned Days	0.0	0.0	0.0	0.0	0.0	0.0
Planned MWh's	0	0	0	0	0	0
Purchase Price						
Total Cost						
Unit Cost						
Incremental Cost	\$0	\$0	\$0	\$0	\$0	\$0
Total Outage Costs						
Total Incremental Costs	\$23,048	\$0	(\$23,048)	\$38,531	\$0	(\$38,531)
Total Outage Costs						
Total Incremental Costs	\$51,271	(\$34,272)	(\$85,543)	\$89,516	\$120,949	\$31,433

ASM Cost and Benefit Compliance Filing
Docket No. E015/M-08-528, dated August 23, 2010

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 \$114,346.35 for January 2020 through December 2020. The Spinning Reserve costs and revenues are provided in Table 6-A.

Supplemental Reserves

Minnesota Power's cost allocation for supplemental reserves was \$36,901.11 for January 2020 through December 2020. 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 \$206,596.97 for January 2020 through December 2020. 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 2020 through December 2020 summary of ASM hourly charges which had a net gain of \$12,702.76. 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 2020 through December 2020, a net gain of \$14,538.70 was allocated to the Retail FCA.

Table 6-B provides a summary of January 2020 through December 2020 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 2020 through December 2020.

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 2020 through December 2020, the Schedule 17 rate averaged \$0.08916 for an average monthly billing of \$155,218.03.

Daily Detail

Table 6-D provides the daily details supporting the monthly and quarterly benefits shown in Table 6-A. For the reporting period, 177 days or 48 percent show a net cost. With the exception of 71 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 2020 through December 2020, Minnesota Power incurred \$20.89 of CRDFC. This charge occurred on two operating days as shown in Table 6-E. The shortfall MWh totaled of 2.8 for an average cost of \$7.46 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 2020 through December 2020, Minnesota Power incurred \$265,114.12 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

	1st Quarter 2020 Total				2nd Quarter 2020 Total				3rd Quarter 2020 Total			4th Quarter 2020 Total			2020 Total	
	Jan-20	Feb-20	Mar-20		Apr-20	May-20	Jun-20		Jul-20	Aug-20	Sep-20		Oct-20	Nov-20		Dec-20
Day Ahead Regulation Amount	(87,035.41)	(84,189.59)	(85,084.62)	\$ (256,309.62)	(40,108.92)	(36,439.42)	(42,172.57)	\$ (118,720.91)	(59,282.86)	(78,367.62)	(61,211.64)	\$ (198,862.12)	(80,803.49)	(91,409.15)	(94,073.32)	\$ (266,285.96)
Real Time Regulation Amount	31,636.56	34,003.71	38,941.86	\$ 104,582.13	22,953.04	14,104.53	13,042.63	\$ 50,100.20	17,906.70	22,481.58	23,426.15	\$ 63,814.43	30,196.53	14,164.28	26,367.50	\$ 70,728.31
Regulation Cost Distribution Amount	30,313.10	29,900.07	34,033.25	\$ 94,246.42	31,830.42	23,882.86	19,274.88	\$ 74,788.16	20,724.11	26,030.81	26,586.94	\$ 73,341.86	36,164.63	32,274.20	33,541.30	\$ 101,980.13
Regulation SubTotal	\$ (25,085.75)	\$ (20,285.81)	\$ (12,109.51)	\$ (57,481.07)	\$ 14,674.54	\$ 1,347.97	\$ (9,855.06)	\$ 6,187.45	\$ (20,652.05)	\$ (29,855.23)	\$ (11,198.55)	\$ (61,705.83)	\$ (14,442.33)	\$ (44,978.67)	\$ (34,164.52)	\$ (93,577.52)
Day Ahead Spinning Reserve Amount	(43,499.64)	(33,675.51)	(44,306.76)	\$ (121,481.91)	(19,653.37)	(26,066.14)	(51,549.48)	\$ (97,268.99)	(44,689.70)	(60,076.25)	(31,134.55)	\$ (135,900.50)	(37,296.33)	(34,127.75)	(43,174.15)	\$ (114,598.23)
Real Time Spinning Reserve Amount	17,563.88	5,257.33	14,696.81	\$ 37,518.02	7,744.70	(1,688.00)	13,596.84	\$ 19,653.54	(8,964.61)	14,909.50	17,036.93	\$ 22,981.82	20,574.29	8,878.51	22,665.41	\$ 52,118.21
Spinning Reserve Cost Distribution Amount	18,658.68	15,578.83	16,643.52	\$ 50,881.03	21,451.35	18,220.04	13,911.64	\$ 53,583.03	17,101.83	22,172.77	16,139.31	\$ 55,413.91	21,250.56	19,427.92	22,075.24	\$ 62,753.72
Spinning Reserve SubTotal	\$ (7,277.08)	\$ (12,839.35)	\$ (12,966.43)	\$ (33,062.88)	\$ 9,542.68	\$ (9,534.10)	\$ (24,041.00)	\$ (24,032.42)	\$ (36,552.48)	\$ (22,993.98)	\$ 2,041.69	\$ (57,504.77)	\$ 4,528.32	\$ (5,821.32)	\$ 1,566.50	\$ 273.70
Day Ahead Supplemental Reserve Amount	(51.52)	(10.98)	(9.36)	\$ (71.86)	-	-	(55.98)	\$ (55.98)	(26.31)	(10.76)	(288.64)	\$ (325.71)	(170.52)	(102.81)	(31.20)	\$ (304.53)
Real Time Supplemental Reserve Amount	14.29	(14.09)	3.19	\$ 3.39	(1.11)	(2.44)	(14.60)	\$ (18.15)	(448.51)	(72.51)	172.57	\$ (348.45)	32.75	(100.67)	(32.75)	\$ (100.67)
Supplemental Reserve Cost Distribution Amount	4,787.43	3,081.06	3,220.84	\$ 11,089.33	2,776.28	2,152.89	1,975.71	\$ 6,904.88	1,827.63	3,077.93	3,267.56	\$ 8,193.12	5,482.05	3,121.59	3,332.10	\$ 11,935.74
Supplemental Reserve SubTotal	\$ 4,750.20	\$ 3,055.99	\$ 3,214.67	\$ 11,020.86	\$ 2,775.17	\$ 2,150.45	\$ 1,905.13	\$ 6,830.75	\$ 1,352.81	\$ 2,994.66	\$ 3,171.49	\$ 7,518.86	\$ 5,344.28	\$ 2,918.11	\$ 3,268.15	\$ 11,530.54
Contingency Reserve Deployment Failure Charge Amount	-	-	-	\$ -	-	-	-	\$ -	-	9.20	-	\$ 9.20	-	11.69	-	\$ 11.69
Real Time Excessive Deficient Energy Deployment Charge Amount	29,313.42	25,011.54	16,929.93	\$ 71,254.89	5,811.46	9,165.69	11,586.46	\$ 26,563.61	16,821.70	29,439.65	19,771.94	\$ 66,033.29	25,370.00	43,509.44	32,382.89	\$ 101,262.33
Net Regulation Adjustment Amount	1,051.00	(185.24)	(34.78)	\$ 830.98	(805.88)	(222.03)	653.47	\$ (374.44)	1,209.84	964.55	907.21	\$ 3,081.60	(445.02)	2,126.70	984.62	\$ 2,666.30
Other Charge SubTotal	\$ 30,364.42	\$ 24,826.30	\$ 16,895.15	\$ 72,085.87	\$ 5,005.58	\$ 8,943.66	\$ 12,239.93	\$ 26,189.17	\$ 18,031.54	\$ 30,413.40	\$ 20,679.15	\$ 69,124.69	\$ 24,924.98	\$ 45,647.83	\$ 33,367.51	\$ 103,940.32
Total	\$ 2,751.79	\$ (5,242.87)	\$ (4,966.12)	\$ (7,457.20)	\$ 31,997.97	\$ 2,907.98	\$ (19,751.00)	\$ 15,154.95	\$ (37,820.18)	\$ (19,441.15)	\$ 14,693.78	\$ (42,567.55)	\$ 20,355.45	\$ (2,226.05)	\$ 4,037.64	\$ 22,167.04

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

	1st Quarter 2020 Total				2nd Quarter 2020 Total				3rd Quarter 2020 Total			4th Quarter 2020 Total			2020 Total	
	Jan-20	Feb-20	Mar-20		Apr-20	May-20	Jun-20		Jul-20	Aug-20	Sep-20		Oct-20	Nov-20		Dec-20
Total MISO Reg Procured (MWh)	295,148.27	266,057.11	294,847.20	\$ 856,052.58	276,037.85	294,565.87	285,598.91	\$ 856,202.63	295,215.05	218,390.24	285,566.40	\$ 799,171.69	294,794.60	285,205.09	295,010.68	\$ 875,010.37
MP Share of Reg Procured by MISO	5,396.23	5,004.96	5,815.03	\$ 16,216.22	5,108.43	3,928.72	3,316.13	\$ 12,353.28	3,205.26	3,129.37	4,554.42	\$ 10,889.05	5,094.32	5,005.19	5,170.67	\$ 15,270.18
MP Supplied Reg Volume	10,796.10	10,700.80	12,275.90	\$ 33,772.80	6,621.40	6,050.50	7,926.00	\$ 20,597.90	8,420.80	8,657.60	8,496.20	\$ 25,574.60	8,881.40	10,010.30	10,530.30	\$ 29,422.00
MP Net Buyer or (Seller) of Regulation	\$ (5,399.87)	\$ (5,695.84)	\$ (6,460.87)	\$ (17,556.58)	\$ (1,512.97)	\$ (2,121.78)	\$ (4,609.87)	\$ (8,244.62)	\$ (5,215.54)	\$ (5,528.23)	\$ (3,941.78)	\$ (14,685.55)	\$ (3,787.08)	\$ (5,005.11)	\$ (5,359.63)	\$ (14,151.82)
Total MISO Spin Procured (MWh)	681,290.55	615,581.58	685,993.19	\$ 1,982,865.32	637,442.12	679,978.45	653,731.05	\$ 1,971,151.62	701,400.30	506,729.02	659,907.63	\$ 1,868,036.95	705,110.01	714,295.25	700,529.93	\$ 2,119,935.19
MP Share of Spin Procured by MISO	12,490.09	11,605.77	13,569.49	\$ 37,665.35	11,830.85	9,097.38	7,621.06	\$ 28,549.29	7,624.70	7,295.66	10,568.00	\$ 25,488.36	12,241.08	12,565.96	12,306.77	\$ 37,133.81
MP Supplied Spin Volume	36,169.00	35,146.00	38,031.00	\$ 109,346.00	10,924.70	13,445.00	29,414.40	\$ 53,784.10	22,795.90	25,759.30	26,242.20	\$ 74,797.40	27,655.90	28,105.60	29,430.30	\$ 83,191.80
MP Net Buyer or (Seller) of Spinning Reserves	\$ (23,678.91)	\$ (23,540.23)	\$ (24,461.51)	\$ (71,680.65)	\$ 906.15	\$ (4,347.62)	\$ (21,793.34)	\$ (25,234.81)	\$ (15,131.20)	\$ (18,463.64)	\$ (15,674.20)	\$ (49,269.04)	\$ (15,414.82)	\$ (13,519.64)	\$ (17,123.53)	\$ (46,057.99)
Total MISO Supp Procured (MWh)	819,406.18	740,905.13	823,584.40	\$ 2,383,895.71	770,473.95	823,905.36	791,835.10	\$ 2,386,214.41	793,120.59	602,430.72	790,249.66	\$ 2,185,800.97	802,991.12	746,698.66	808,048.02	\$ 2,357,737.80
MP Share of Supp Procured by MISO	15,004.43	13,955.80	16,287.51	\$ 45,247.74	14,299.66	11,023.34	9,219.94	\$ 34,542.94	8,641.78	8,667.09	12,647.71	\$ 29,956.58	13,912.96	13,124.26	14,175.67	\$ 41,216.89
MP Supplied Supp Volume	240.00	48.00	52.00	\$ 340.00	225.00	225.00	225.00	\$ 675.00	28.00	-	-	\$ 28.00	140.00	160.00	160.00	\$ 300.00
MP Net Buyer or (Seller) of Supplemental Reserves	\$ 14,764.43	\$ 13,907.80	\$ 16,235.51	\$ 44,907.74	\$ 14,299.66	\$ 11,023.34	\$ 8,994.94	\$ 34,317.94	\$ 8,641.78	\$ 8,639.09	\$ 12,647.71	\$ 29,928.58	\$ 13,812.96	\$ 12,984.26	\$ 14,019.67	\$ 40,816.89

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 2020 through December 2020	\$ 155,218.03	\$ 0.08916
Average Monthly Increase	\$ 14,295.53	\$ 0.01693

Table 6-E

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
8/8/2020	Saturday	Thomson	\$ 9.20	2	1.4	21.6	23.0
11/6/2020	Friday	Thomson	\$ 11.69	4	1.4	7.6	9.0
Total			\$ 20.89	2.8			

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

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

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

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 2020 through December 2020. 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 Appendix A

b) whether or not Minnesota Power accepted the power

See Appendix A

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.

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

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.

NON-PUBLIC DOCUMENT
CONTAINS TRADE SECRET DATA

Appendix A

2020 MHEB Product B & C
Minnesota Power - Short-term Non-firm Energy Sale Agreement

	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
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]

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

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

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Oliver County I				
	FPL Wind Energy in FAC (MWh)	Curtailments of Wind Energy (MWh)	Curtailment Payments by Minnesota Power	Reason Code
	TRADE SECRET DATA BEGINS			
January 2020				2
February 2020				2
March 2020				2
April 2020				2
May 2020				2
June 2020				2
July 2020				2
August 2020				2
September 2020				2
October 2020				None
November 2020				2
December 2020				None
Total				
	TRADE SECRET DATA ENDS]			


Oliver County II				
	FPL Wind Energy in FAC (MWh)	Curtailments of Wind Energy (MWh)	Curtailment Payments by Minnesota Power	Reason Code
	TRADE SECRET DATA BEGINS			
January 2020				2
February 2020				2
March 2020				2
April 2020				2
May 2020				2
June 2020				2
July 2020				2
August 2020				2
September 2020				2
October 2020				2
November 2020				2
December 2020				2
Total				
	TRADE SECRET DATA ENDS]			

Reason Code:

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.

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TRADE SECRET DATA EXCISED

Bison Wind Energy		
	Delivered MWh	Lost MWh
	[TRADE SECRET DATA BEGINS]	
January 2020		
February 2020		
March 2020		
April 2020		
May 2020		
June 2020		
July 2020		
August 2020		
September 2020		
October 2020		
November 2020		
December 2020		
Total		

Nobles 2			
	Nobles Wind Energy in FAC (MWh)	Curtailments of Wind Energy (MWh)	Curtailment Payments by Minnesota Power
	[TRADE SECRET DATA BEGINS]		
January 2020			
February 2020			
March 2020			
April 2020			
May 2020			
June 2020			
July 2020			
August 2020			
September 2020			
October 2020			
November 2020			
December 2020			
Total			

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

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

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

PUBLIC DOCUMENT
TRADE SECRET DATA EXCISED

Minnesota Power's Offsetting Revenues		
For the Reporting Period of January 1, 2020 through December 31, 2020		
[TRADE SECRET DATA BEGINS		
Source	MWh	Offsetting Revenues /1
[REDACTED DATA]		
TRADE SECRET DATA ENDS]		

/1 The cost 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 ratepayers in the Fuel Clause.

Generation Facilities Maintenance Expense:
Docket No. E999/AA-06-1208

Minnesota Power
AAA Compliance Filing
Summary of Generation Maintenance Expenses

	FERC Acct	Final Rates	
		Test Year 2017 Docket No. E015/GR-16-664 [1]	2020 Actual Expenses [2]
<u>Steam Power Generation Maintenance</u>			
Maintenance Supervision and Engineering	510	\$4,913,827	\$2,793,789
Maintenance of Structures	511	\$582,993	\$696,813
Maintenance of Boiler Plant	512	\$16,051,910	\$6,770,314
Maintenance of Electric Plant	513	\$2,143,926	\$2,044,870
Maintenance of Misc. Steam Plant	514	\$5,109,261	\$3,456,165
Sub-Total Steam Power		<u>\$28,801,917</u>	<u>\$15,761,951</u>
<u>Hydraulic Power Generation Maintenance</u>			
Maintenance Supervision and Engineering	541	\$514,969	\$374,509
Maintenance of Structures	542	\$73,962	\$88,659
Maintenance of Reservoirs, Dams and Waterways	543	\$604,374	\$778,841
Maintenance of Electric Plant	544	\$1,581,601	\$1,104,135
Maintenance of Misc. Hydraulic Plant	545	\$1,058,911	\$711,028
Sub-Total Hydraulic Power		<u>\$3,833,817</u>	<u>\$3,057,172</u>
<u>Other Power Generation - Wind Maintenance</u>			
Maintenance Supervision and Engineering	551	\$19,855	\$83,631
Maintenance of Structures	552	\$15,000	\$1,024
Maintenance of Generating and Electric Plant	553	\$9,116,984	\$9,825,903
Maintenance of Misc. Other Pwr Generation Plt.	554	\$211,331	\$1,614,623
Sub-Total Other Power - Wind		<u>\$9,363,170</u>	<u>\$11,525,181</u>
TOTAL		<u><u>\$41,998,904</u></u>	<u><u>\$30,344,304</u></u>

[1] Docket E015/GR-16-664 Compliance Filing dated 6-28-18, Section VIII, Compliance Schedule 16, CCROSS, column Total Company
[2] 2020 report run 02/01/2021 by Accounting

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

<u>Utility Operating Expense</u> <u>Operations & Maintenance Exp.</u>	<u>FERC</u> <u>Acct No.</u>	<u>Total</u> <u>Amounts</u>	<u>Final</u> <u>Adjustments</u>	<u>Total Company</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 Waterway	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 f	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				

<u>Utility Operating Expense</u>	FERC <u>Acct No.</u>	Total <u>Amounts</u>	Final <u>Adjustments</u>	Total Company Compliance 2017 Cost of <u>Service Model</u>
Operations & Maintenance Exp.				
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.

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	-		-

<u>Utility Operating Expense</u>	FERC	Total	Final	Total Company
Operations & Maintenance Exp.	<u>Acct No.</u>	<u>Amounts</u>	<u>Adjustments</u>	Compliance 2017
				Cost of
				<u>Service Model</u>
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
Maintenance Supervision & Engineering				
MP Compliance Filing, Section VIII, pg 19 of 46				
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		6,810,387	-	6,810,387
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		13,932,373	(125,000)	13,807,383
Maintenance Supervision & Engineering				
Sales	913	43,321		43,321
MP Compliance Filing, Section VIII, pg 19		43,321	-	43,321

<u>Utility Operating Expense</u>	FERC	Total	Final	Total Company
Operations & Maintenance Exp.	<u>Acct No.</u>	<u>Amounts</u>	<u>Adjustments</u>	Compliance 2017
				Cost of
				<u>Service Model</u>
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 Asses	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		63,551,476	(7,750,412)	55,801,064
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

**Notice of Report Availability
Certificate of Service, and Service Lists
January 2020 - December 2020**



Notice of Reports Availability

To: All Intervenors in Minnesota Power
Retail Rate Proceedings
Docket Nos. E015/GR-16-664 and E015/GR-19-442

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

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

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

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

Certificate of Service

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

Minnesota Power

By:

/s/ Hillary A. Creurer _____

Hillary A. Creurer

Regulatory Compliance Administrator

Dated: March 1, 2021

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Lori	Andresen	info@sosbluewaters.org	Save Our Sky Blue Waters	P.O. Box 3661 Duluth, Minnesota 55803	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
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_16-664_PUC Official Service List General Rate Case
Sundra	Bender	sundra.bender@state.mn.us	Public Utilities Commission	121 7th Place East Suite 350 Saint Paul, MN 55101-2147	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case
Sara	Bergan	sebergan@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Seth	Bichler	sethbichler@fdlrez.com	Fond du Lac Band of Lake Superior Chippewa	1720 Big Lake Rd Cloquet, MN 55720	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
David F.	Boehm	dboehm@bkllawfirm.com	Boehm, Kurtz & Lowry	36 E 7th St Ste 1510 Cincinnati, OH 45202	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Elizabeth	Brama	ebra@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 South 8th Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Jon	Brekke	jbrekke@greenergy.com	Great River Energy	12300 Elm Creek Boulevard Maple Grove, MN 553694718	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Christina	Brusven	cbrusven@fredlaw.com	Fredrikson Byron	200 S 6th St Ste 4000 Minneapolis, MN 554021425	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Michael J.	Bull	mbull@mncee.org	Center for Energy and Environment	212 Third Ave N Ste 560 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case

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_16-664_PUC Official Service List General Rate Case
Greg	Chandler	greg.chandler@upm.com	UPM Blandin Paper	115 SW First St Grand Rapids, MN 55744	Paper Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Steve W.	Chriss	Stephen.chriss@walmart.com	Wal-Mart	2001 SE 10th St. Bentonville, AR 72716-5530	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
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_16-664_PUC Official Service List General Rate Case
Brooke	Cooper	bcooper@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022191	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Lisa	Daniels	lisadaniels@windustry.org	Windustry	201 Ridgewood Ave Minneapolis, MN 55403	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Ron	Elwood	relwood@mnlisap.org	Mid-Minnesota Legal Aid	2324 University Ave Ste 101 Saint Paul, MN 55114	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case
Edward	Garvey	garveyed@aol.com	Residence	32 Lawton St Saint Paul, MN 55102	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
John R.	Gasele	jpgasele@fryberger.com	Fryberger Buchanan Smith & Frederick PA	700 Lonsdale Building 302 W Superior St Ste Duluth, MN 55802	Electronic Service 700	No	OFF_SL_16-664_PUC Official Service List General Rate Case
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_16-664_PUC Official Service List General Rate Case
Barbara	Gervais	toftemn@boreal.org	Town of Tofte	P O Box 2293 7240 Tofte Park Road Tofte, MN 55615	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
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_16-664_PUC Official Service List General Rate Case
J Drake	Hamilton	hamilton@fresh-energy.org	Fresh Energy	408 St Peter St Saint Paul, MN 55101	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Robert	Harding	robert.harding@state.mn.us	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Annete	Henkel	mui@mutilityinvestors.org	Minnesota Utility Investors	413 Wacouta Street #230 St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Shane	Henriksen	shane.henriksen@enbridge.com	Enbridge Energy Company, Inc.	1409 Hammond Ave FL 2 Superior, WI 54880	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Valerie	Herring	vherring@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S. Eighth Street Minneapolis, MN 55402	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case
Lori	Hoyum	lhoyum@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
James	Jarvi	N/A	Minnesota Ore Operations - U S Steel	P O Box 417 Mountain Iron, MN 55768	Paper Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Alan	Jenkins	aj@jenkinsatlaw.com	Jenkins at Law	2950 Yellowtail Ave. Marathon, FL 33050	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Kelsey	Johnson	info@taconite.org	Iron Mining Association	324 West Superior St Ste 502 Duluth, MN 55802	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case
Travis	Kolari	N/A	Keetac	PO Box 217 Keewatin, MN 55753	Paper Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Michael	Krikava	mkrikava@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S 8th St Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
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_16-664_PUC Official Service List General Rate Case
David	Langmo	david.langmo@sappi.com	Sappi North America	P O Box 511 2201 Avenue B Cloquet, MN 55720	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Douglas	Larson	dlarson@dakotaelectric.com	Dakota Electric Association	4300 220th St W Farmington, MN 55024	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case

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_16-664_PUC Official Service List General Rate Case
James D.	Larson	james.larson@avantenergy.com	Avant Energy Services	220 S 6th St Ste 1300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
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_16-664_PUC Official Service List General Rate Case
LeRoger	Lind	llind@yahoo.com	Save Lake Superior Association	P.O. Box 101 Two Harbors, MN 55616	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Eric	Lindberg	elindberg@mncenter.org	Minnesota Center for Environmental Advocacy	1919 University Avenue West Suite 515 Saint Paul, MN 55104-3435	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case
Patrick	Loupin	PatrickLoupin@Packaging Corp.com	Packaging Corporation of America	PO Box 990050 Boise, ID 83799-0050	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Susan	Ludwig	sludwig@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Kavita	Maini	kmmaini@wi.rr.com	KM Energy Consulting, LLC	961 N Lost Woods Rd Oconomowoc, WI 53066	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Sarah	Manchester	sarah.manchester@sappi.com	Sappi North American	255 State Street Floor 4 Boston, MA 02109-2617	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
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_16-664_PUC Official Service List General Rate Case
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_16-664_PUC Official Service List General Rate Case
Matthew	McClincy	MMcClincy@usg.com	USG	35 Arch Street Clouquet, MN 55720	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Craig	McDonnell	Craig.McDonnell@state.mn.us	MN Pollution Control Agency	520 Lafayette Road St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case
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_16-664_PUC Official Service List General Rate Case
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case
James	Mortenson	james.mortenson@state.mn.us	Office of Administrative Hearings	PO BOX 64620 St. Paul, MN 55164-0620	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case

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_16-664_PUC Official Service List General Rate Case
Michael	Noble	noble@fresh-energy.org	Fresh Energy	Hamm Bldg., Suite 220 408 St. Peter Street St. Paul, MN 55102	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Rolf	Nordstrom	rnordstrom@gpisd.net	Great Plains Institute	2801 21ST AVE S STE 220 Minneapolis, MN 55407-1229	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Kevin	O'Grady	kevin.ograde@state.mn.us	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Christopher J.	Oppitz	N/A	-	110 1/2 1ST ST E Park Rapids, MN 56470-1695	Paper Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Elanne	Palcich	epalcich@cpinternet.com	Save Our Sky Blue Waters	P.O. Box 3661 Duluth, MN 55803	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Max	Peters	maxp@cohasset-mn.com	City of Cohasset	305 NW First Ave Cohasset, MN 55721	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Jennifer	Peterson	jjpeterson@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
William	Phillips	wphillips@aarp.org	AARP	30 E. 7th St Suite 1200 St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Marcia	Podratz	mpodratz@mnpower.com	Minnesota Power	30 W Superior S Duluth, MN 55802	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Tolaver	Rapp	Tolaver.Rapp@cliffsnr.com	Cliffs Natural Resources	200 Public Square Suite 3400 Cleveland, OH 441142318	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
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_16-664_PUC Official Service List General Rate Case
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_16-664_PUC Official Service List General Rate Case
Ralph	Riberich	rriberich@uss.com	United States Steel Corp	600 Grant St Ste 2028 Pittsburgh, PA 15219	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Buddy	Robinson	buddy@citizensfed.org	Minnesota Citizens Federation NE	2110 W. 1st Street Duluth, MN 55806	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Santi	Romani	N/A	United Taconite	PO Box 180 Eveleth, MN 55734	Paper Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Susan	Romans	sromans@allete.com	Minnesota Power	30 West Superior Street Legal Dept Duluth, MN 55802	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Richard	Savelkoul	rsavelkoul@martinsquires.com	Martin & Squires, P.A.	332 Minnesota Street Ste W2750 St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Thomas	Scharff	thomas.scharff@versoco.com	Verso Corp	600 High Street Wisconsin Rapids, WI 54495	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Larry L.	Schedin	Larry@LLSResources.com	LLS Resources, LLC	332 Minnesota St, Ste W1390 St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Ann	Schwieger	ann.schwieger@state.mn.us	Public Utilities Commission	121 7th Place East Suite 350 St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th Pl E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case
Janet	Shaddix Elling	jshaddix@janetshaddix.com	Shaddix And Associates	7400 Lyndale Ave S Ste 190 Richfield, MN 55423	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case
Doug	Shoemaker	dougs@charter.net	Minnesota Renewable Energy	2928 5th Ave S Minneapolis, MN 55408	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Brett	Skyles	Brett.Skyles@co.itasca.mn.us	Itasca County	123 NE Fourth Street Grand Rapids, MN 557442600	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
James M	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Lynnette	Sweet	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Robert	Tammen	bobtammen@frontiernet.net	Wetland Action Group	PO Box 398 Soudan, MN 55782	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Jim	Tieberg	jtieberg@polymetmining.com	PolyMet Mining, Inc.	PO Box 475 County Highway 666 Hoyt Lakes, MN 55750	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Jessica	Tritsch	jessica.tritsch@sierraclub.org	Sierra Club	2327 E Franklin Ave Minneapolis, MN 55406	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Karen	Turnboom	karen.turnboom@versoco.com	Verso Corporation	100 Central Avenue Duluth, MN 55807	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Kodi	Verhalen	kverhalen@taftlaw.com	Taft Stettinius & Hollister LLP	80 S 8th St Ste 2200 Minneapolis, MN 55402	Electronic Service	Yes	OFF_SL_16-664_PUC Official Service List General Rate Case
Kevin	Walli	kwalli@fryberger.com	Fryberger, Buchanan, Smith & Frederick	380 St. Peter St Ste 710 St. Paul, MN 55102	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case
Scott	Zahorik	scott.zahorik@aeoa.org	Arrowhead Economic Opportunity Agency	702 S. 3rd Avenue Virginia, MN 55792	Electronic Service	No	OFF_SL_16-664_PUC Official Service List General Rate Case

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@sosbluewaters.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
Sara	Bergan	sebergan@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
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_19-442_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_19-442_Official CC Service List
Jason	Bonnett	jason.bonnett@state.mn.us	Public Utilities Commission	121 East 7th Place suite 350 St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-442_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_19-442_Official CC Service List
Jon	Brekke	jbrekke@grenergy.com	Great River Energy	12300 Elm Creek Boulevard Maple Grove, MN 553694718	Electronic Service	No	OFF_SL_19-442_Official CC Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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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
Brooke	Cooper	bcooper@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022191	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

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Lisa	Daniels	lisadaniels@windustry.org	Windustry	201 Ridgewood Ave Minneapolis, MN 55403	Electronic Service	No	OFF_SL_19-442_Official CC Service List
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
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Ron	Elwood	relwood@mnlap.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
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_19-442_Official CC Service List
Edward	Garvey	garveyed@aol.com	Residence	32 Lawton St Saint Paul, MN 55102	Electronic Service	No	OFF_SL_19-442_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_19-442_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_19-442_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_19-442_Official CC Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Kimberly	Hellwig	kimberly.hellwig@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	Yes	OFF_SL_19-442_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_19-442_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_19-442_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_19-442_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_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
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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

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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
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
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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
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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

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
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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

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
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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	Hamm Bldg., Suite 220 408 St. Peter Street St. 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	-	110 1/2 1ST ST E Park Rapids, MN 56470-1695	Paper Service	No	OFF_SL_19-442_Official CC Service List

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

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
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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
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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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
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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STATE OF MINNESOTA)
) ss
COUNTY OF ST. LOUIS)

AFFIDAVIT OF SERVICE VIA
ELECTRONIC FILING

Tiana Heger of the City of Duluth, County of St. Louis, State of Minnesota, says that on the 1st day of March, 2021, she served Minnesota Power's 2020 FAC Forecast True-up Report in **Docket No E015/AA-19-302** on the Minnesota Public Utilities Commission and the Energy Resources Division of the Minnesota Department of Commerce via electronic filing. The persons on E-Docket's Official Service List for this Docket were served as requested.



Tiana Heger