



August 31, 2015

**PUBLIC DOCUMENT  
TRADE SECRET DATA  
HAS BEEN EXCISED**

**VIA Electronic Filing**

Mr. Daniel P. Wolf, Executive Secretary  
Minnesota Public Utilities Commission  
121 7th Place East, Suite 350  
St. Paul, MN 55101-2147

Dear Mr. Wolf:

Re: **Minnesota Rules 7825.2800 - 7825.2840**  
**Annual Reports Containing Fuel Information and Data**

In compliance with the above rules, Minnesota Power hereby submits to the Commission the following reports and information:

- Attachment No. 1 Minnesota Power's Fuel and Energy Source Procurement and Energy Dispatching Policies Annual Report (MN Rule 7825.2800). (Docket No. E-015/M-05-277) In addition, Minnesota Power's additional information regarding its plans with respect to acquiring fuel and purchased energy as required in Docket No. E-015/M-05-277 dated December 20, 2006. Please note this document contains Trade Secret Data.
- Attachment No. 2 Independent Auditor's Report on Minnesota Power's Accounting for Automatic Adjustments during the period July 2013 through June 2014 (MN Rule 7825.2820).
- Attachment No. 3 Minnesota Power's Annual Report of Automatic Adjustment Charges for the period July 2013 through June 2014 (MN Rule 7825.2810). Included is a breakdown by energy type as required in Docket No. AA-04-1279 dated December 7, 2005.
- Attachment No. 4 Minnesota Power's Annual Five-Year Projection of Fuel Costs (MN Rule 7825.2830). Please note this document contains Trade Secret Data.
- Attachment No. 5 Minnesota Power's Notice of Availability of Reports (MN Rule 7825.2840).
- Attachment No. 6 Minnesota Power's Compliance Report on MISO Operations and Cost Impacts to Minnesota Power (Docket No. E-015/PA-01-539).

- Attachment No. 7 Minnesota Power's List of Network Resources Designated to Serve Native Load (Docket No. E-015/M-05-277 dated December 20, 2006).
- Attachment No. 8 Minnesota Power's reporting matrix required under the MISO Day 2 Cost Order (Docket E-015/M-05-277 and Docket E-015/M-08-528).
- Attachment No. 9 Minnesota Power's monthly MISO Day 2 charges and allocation (Docket E, G-999/AA-07-1130).
- Attachment No. 10 Minnesota Power's Annual and Daily ASM charges and summary (Docket No. E-015/M-08-528 dated August 23, 2010).
- Attachment No. 11 Minnesota Power's ARR process and information. (Docket No. E-015/M-05-277). Please note this document contains Trade Secret Data.
- Attachment No. 12 Minnesota Power's generation facilities maintenance expenses (Docket No. E999/AA-06-1208 dated February 6, 2008).
- Attachment No. 13 Minnesota Power's transmission transformer inventory by size for 100 kV defined by low side transmission kV (Docket No. E-999/AA-07-1130 dated August 31, 2009). Please note this document contains Trade Secret Data.
- Attachment No. 14 Minnesota Power's Report Addressing the Purchase Power Agreement with Manitoba Hydro (Docket No. E015/M-10-961; dated March 11, 2011). Please note this document contains Trade Secret Data.
- Attachment No. 15 Minnesota Power's Offsetting Revenues and/or Compensation Received by Investor-Owned Utilities (IOUs) (Docket No. E-999/AA-10-884 dated April 6, 2012). Please note this document contains Trade Secret Data.
- Attachment No. 16 Handling of forced outages; the lessons learned, information sharing and a simple identification of forced outages with discussion on how such outages could have been avoided or alleviated. (Docket No. E-999/AA-10-884 dated April 6, 2012).

- Attachment No. 17 A comparison and reconciliation of the MISO accredited value of their generators using MISO accredited UCAP values and integrated resource plan capacity ratings (Docket No. E-999/AA-10-884 dated April 6, 2012 and Docket No. E-999/AA-09-961 dated August 31, 2009). Please note this document contains Trade Secret Data.
- Attachment No. 18 Congestion Cost Analysis (Docket No. E-999/AA-11-792 dated August 16, 2013). Please note the access database is considered Trade Secret Data in its entirety and will be provided on cd separate from this filing.
- Attachment No. 19 Plant Outages Contingency Plans (Docket No. E-999/AA-08-995 dated March 15, 2010).
- Attachment No. 20 Wind Curtailment Report for Oliver I and Oliver II (Docket No. E-015/M-05-975 Dated December 20, 2005).
- Attachment No. 21 Wind Curtailment Report for Bison (Docket No. E015/M-11-234; Dated September 8, 2011 and Docket No. E015/M-11-626; Dated November 2, 2011).

Minnesota Power believes this filing comports with the Commission's Notice relating to Revised Procedures for Handling Trade Secret and Privileged Data, pursuant to Minn. Rule part 7829.0500. As required by the revised procedures, a statement providing the justification for excising the trade secret data is attached to this letter.

Sincerely,

/s/ Leann Oehlerking-Boes

Leann Oehlerking-Boes  
Manager –  
Energy Pricing & Billing

sr  
Enc.

c: John Lindell (via U.S. Mail)  
Service List

STATEMENT REGARDING JUSTIFICATION FOR EXCISING  
TRADE SECRET INFORMATION

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

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

Date prepared: August 31, 2015

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**MINNESOTA POWER  
SEPTEMBER 1, 2015  
FUEL AND ENERGY SOURCE PROCUREMENT AND ENERGY DISPATCHING POLICIES ANNUAL  
REPORT PURSUANT TO MINNESOTA RULE 7825.2800**

**Fuel Source Procurement Policies**

**Summary of Fuel Contracts**

Coal Contracts

- Kennecott Coal Sales LLC, an Oregon LLC (currently known as Rio Tinto Energy), Spring Creek Mine, Decker, Montana.

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

An agreement signed on [TRADE SECRET DATA HAS BEEN EXCISED] provides for purchases of a minimum of [TRADE SECRET DATA HAS BEEN EXCISED] tons of coal for the period of [TRADE SECRET DATA HAS BEEN EXCISED] through [[TRADE SECRET DATA HAS BEEN EXCISED]. This agreement also provides for purchases of a minimum of [TRADE SECRET DATA HAS BEEN EXCISED] tons of coal annually for the period of [TRADE SECRET DATA HAS BEEN EXCISED] through [TRADE SECRET DATA HAS BEEN EXCISED].

An agreement signed on [TRADE SECRET DATA HAS BEEN EXCISED] provides for purchases of up to [TRADE SECRET DATA HAS BEEN EXCISED] tons of coal for the period of [TRADE SECRET DATA HAS BEEN EXCISED] through [TRADE SECRET DATA HAS BEEN EXCISED].

- Kennecott Coal Sales LLC, an Oregon LLC (currently known as Rio Tinto Energy), Antelope Mine, Campbell and Converse Counties, Wyoming.

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

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An agreement signed on [TRADE SECRET DATA HAS BEEN EXCISED] provides for purchases of a minimum of [TRADE SECRET DATA HAS BEEN EXCISED] tons of coal for the period of [TRADE SECRET DATA HAS BEEN EXCISED] through [TRADE SECRET DATA HAS BEEN EXCISED].

An agreement signed on [TRADE SECRET DATA HAS BEEN EXCISED] provides for purchases of up to [TRADE SECRET DATA HAS BEEN EXCISED] tons of coal for the period of [TRADE SECRET DATA HAS BEEN EXCISED] through [TRADE SECRET DATA HAS BEEN EXCISED].

- Arch Coal Sales, Black Thunder Mine, Wright, Wyoming

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

A 2012 Agreement provides for the supply of coal from [TRADE SECRET DATA HAS BEEN EXCISED] through [TRADE SECRET DATA HAS BEEN EXCISED] for a minimum of [TRADE SECRET DATA HAS BEEN EXCISED] tons of coal.

A 2013 Agreement provides for purchases of a minimum of [TRADE SECRET DATA HAS BEEN EXCISED] tons of coal for the period of [TRADE SECRET DATA HAS BEEN EXCISED] through [TRADE SECRET DATA HAS BEEN EXCISED]. This agreement also provides for purchases of a minimum of [TRADE SECRET DATA HAS BEEN EXCISED] tons of coal annually for the period of [TRADE SECRET DATA HAS BEEN EXCISED] through [TRADE SECRET DATA HAS BEEN EXCISED].

A 2014 Agreement provides for the supply of coal for the period of [TRADE SECRET DATA HAS BEEN EXCISED] through [TRADE SECRET DATA HAS BEEN EXCISED] for a minimum of [TRADE SECRET DATA HAS BEEN EXCISED] tons of coal.

A 2014 Agreement provides for the supply of coal for the period of [TRADE SECRET DATA HAS BEEN EXCISED] through [TRADE SECRET DATA HAS BEEN EXCISED] for a minimum of [TRADE SECRET DATA HAS BEEN EXCISED] tons of coal.

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

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A 2014 Agreement provides for the supply of coal from **[TRADE SECRET DATA HAS BEEN EXCISED]** through **[TRADE SECRET DATA HAS BEEN EXCISED]** for a minimum of **[TRADE SECRET DATA HAS BEEN EXCISED]** tons of coal annually.

- Decker Coal Company , Decker Mine, Decker, Montana

An Agreement signed on **[TRADE SECRET DATA HAS BEEN EXCISED]** provides for purchases of a minimum of **[TRADE SECRET DATA HAS BEEN EXCISED]** tons of coal and a maximum of **[TRADE SECRET DATA HAS BEEN EXCISED]** tons of coal annually for the period of **[TRADE SECRET DATA HAS BEEN EXCISED]** through **[TRADE SECRET DATA HAS BEEN EXCISED]**.

Biomass Contracts

Currently Minnesota Power purchases wood fuel under purchase orders with 35 separate suppliers for use at the Hibbard Renewable Energy Center and the Rapids Energy Center with varying expiration dates. In addition, MP contracts with two suppliers of ground railroad ties: Stella Jones and Ties2. The Stella Jones contract provides biomass to the Hibbard Renewable Energy Center from **[TRADE SECRET DATA HAS BEEN EXCISED]** for a minimum of **[TRADE SECRET DATA HAS BEEN EXCISED]** tons and a maximum of **[TRADE SECRET DATA HAS BEEN EXCISED]** tons per year. The Ties2 contract provides biomass to the Hibbard Renewable Energy Center from **[TRADE SECRET DATA HAS BEEN EXCISED]** for a minimum **[TRADE SECRET DATA HAS BEEN EXCISED]** for the period of **[TRADE SECRET DATA HAS BEEN EXCISED]** through **[TRADE SECRET DATA HAS BEEN EXCISED]**. This agreement also provides for purchases of a minimum of **[TRADE SECRET DATA HAS BEEN EXCISED]** tons and a maximum of **[TRADE SECRET DATA HAS BEEN EXCISED]** tons annually for the period of **[TRADE SECRET DATA HAS BEEN EXCISED]** through **[TRADE SECRET DATA HAS BEEN EXCISED]**.

Rail Contracts

- Burlington Northern Santa Fe (currently known as BNSF Railway)

Boswell, Taconite Harbor, Hibbard, Rapids, and Laskin - A 2002 Agreement provides for the transportation of coal through **[TRADE SECRET DATA HAS BEEN EXCISED]**.

- Canadian National (CN); formerly Duluth Missabe & Iron Range Railway (DM&IR)

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Laskin - CN currently provides transportation of Minnesota Power coal from a BNSF exchange to Laskin Energy Center under CN tariff terms.

#### Vessel Contract

- Midwest Energy Resources Company

Taconite Harbor - A 2014 Agreement provided for the transportation of not less than the minimum annual tonnage requirement which shall be the greater of **[TRADE SECRET DATA HAS BEEN EXCISED]** or **[TRADE SECRET DATA HAS BEEN EXCISED]** tons of coal and not more than **[TRADE SECRET DATA HAS BEEN EXCISED]** tons of coal for the period of **[TRADE SECRET DATA HAS BEEN EXCISED]** through **[TRADE SECRET DATA HAS BEEN EXCISED]**. In addition, this agreement also provides for the transportation of not less than the minimum annual tonnage requirement which shall be the greater of **[TRADE SECRET DATA HAS BEEN EXCISED]** or **[TRADE SECRET DATA HAS BEEN EXCISED]** tons of coal and not more than **[TRADE SECRET DATA HAS BEEN EXCISED]** tons of coal for the period of **[TRADE SECRET DATA HAS BEEN EXCISED]** through **[TRADE SECRET DATA HAS BEEN EXCISED]**.

Hibbard Renewable Energy Center - A 2014 Agreement with Midwest Energy Resources Company provided for the transportation of not less than **[TRADE SECRET DATA HAS BEEN EXCISED]** tons of coal from **[TRADE SECRET DATA HAS BEEN EXCISED]** through **[TRADE SECRET DATA HAS BEEN EXCISED]**. In addition, this agreement was also amended for the transportation of not less than **[TRADE SECRET DATA HAS BEEN EXCISED]** tons of coal from **[TRADE SECRET DATA HAS BEEN EXCISED]** through **[TRADE SECRET DATA HAS BEEN EXCISED]**.

#### **Supplemental Fuels**

Minnesota Power uses middle distillate fuel oil for start-up and flame stabilization at the Taconite Harbor Energy Center. The current procurement policy allows for the selection of **[TRADE SECRET DATA HAS BEEN EXCISED]** based upon price, past performance, resources and quality. Minnesota Power currently has an agreement with Best Oil from **[TRADE SECRET DATA HAS BEEN EXCISED]** through **[TRADE SECRET DATA HAS BEEN EXCISED]**.



Minnesota Power also uses natural gas for start-up and flame stabilization at the Boswell and Laskin Stations, the TG5 unit at Sappi Station and for the unit at Blandin Paper. Minnesota Power will go out for bids on the Blandin, Boswell, and Sappi Stations. At the Laskin Station, gas is provided by rates established by the Minnesota Energy Resources and approved by the MPUC.

### **Fuel Cost Minimization Activities**

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

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

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

## **Energy Source Procurement and Dispatching Policies**

### **Short Term Activities**

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

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

### **Medium Term Activities**

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

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

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**Minnesota Power's Coal & Transportation Procurement Strategy**

Minnesota Power's Boswell Energy Center ("Boswell"), the company's remaining coal plant post October 2016, is captive to the BNSF Railway ("BNSF"), meaning it has rail service available from only one railroad for coal deliveries to its destination. Boswell utilizes 4-4.5 million tons of coal annually, which is shipped directly from the Powder River Basin ("PRB") to Boswell via the BNSF.

**[TRADE SECRET DATA HAS BEEN EXCISED]**



### Report of Independent Accountants

To the Audit Committee of the Board of Directors and 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”) so, solely to assist the specified parties 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 July 1, 2014 through June 30, 2015 found in Attachment No. 3 (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. This agreed-upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. The sufficiency of these procedures is solely the responsibility of those parties specified in this report. Consequently, we make no representation regarding the sufficiency of the procedures described 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 months of October 2014, February 2015 and April 2015, we agreed the cost of fuel issued for consumption at the Company’s generating stations included on Line 1 of Attachment No. 3 (Section A) of the Company’s Annual Report to the Company’s fuel ledger without exception. For the months of October 2014, February 2015 and April 2015, we agreed fuel purchases recorded in the Company’s fuel ledger to supporting invoices for fuel purchases totaling \$10.7 million (100% coverage), \$13.7 million (100% coverage), and \$13.4 million (100% coverage), respectively, without exception. Additionally, we recomputed the average monthly cost of fuel consumed per ton by inventory location for the months of October 2014, February 2015, and April 2015 as determined from the Company’s fuel ledger and compared such averages to the average monthly cost of fuel purchased per ton by inventory location as determined from the Company’s fuel ledger for the respective month, noting the amounts varied by less than 5.0%, except as follows:

Inventory Location	Average Monthly Cost of Fuel Consumed per Ton	Average Monthly Cost of Fuel Purchased per Ton	
<b>October 2014</b>			
BECP-Spring Creek/Decker Passthru	\$ 22.47	\$ 20.34	*
BECA-ULS Wyoming Passthru	22.48	32.74	*
BECP-Wyoming Passthru	23.15	21.63	*
<b>April 2015</b>			
THECA-Decker Passthru	42.98	38.97	**

\* Management explained these variances are primarily due to inventory quantity adjustments following physical inventory counts.

\*\* Management explained this variance is due to recent declines in the cost of inventory purchases.



- 2) For the months of October 2014, February 2015 and April 2015, we agreed the cost of energy purchased included on Line 2 of Attachment No. 3 (Section A) of the Company's Annual Report to the Company's fuel ledger without exception. For the months of October 2014, February 2015 and April 2015, we selected, purchase transactions by purchased energy type (i.e. from a specific counterparty or MISO charge type) from the Company's fuel ledger representing aggregate purchases of \$12.8 million (74% coverage), \$10.8 million (80% coverage), and \$11.0 million (79% coverage), respectively. We agreed the selected purchase transaction amounts to supporting documentation, consisting of third party invoices, intercompany invoices, sales checkout reports, MISO Charge Types Excluding Asset Energy and Admin Charges Report, RE-Generation to Load LMP Difference Report or the MISO to MISO Report, noting no differences.
- 3) For purchase transactions selected in 2) above which were MISO Charges, (February 2015 and April 2015), we obtained the MISO Charge Types Excluding Asset Energy and Admin Charges Report and, selected, at a minimum, 16 MISO related charges for February 2015 and April 2015, respectively, and agreed them to the underlying invoices, noting no differences.
- 4) For the months of October 2014, February 2015, and April 2015, we agreed the total electric kilowatt hour sales on Line 6 of Attachment No. 3 (Section A) of the Company's Annual Report to the Company's billing register, as adjusted for unbilled amounts, for each respective month noting no differences.
- 5) For the months of October 2014, February 2015 and April 2015, we obtained schedules of the individual inter-system and interruptible power sales transactions comprising the total electric kilowatt hour sales on Line 7 of Attachment No. 3 (Section A) of the Company's Annual Report and tested the mathematical accuracy without exception. From the schedules, we selected individual inter-system and interruptible power sales transactions comprising 260.4 million kWh (85% coverage), 263.1 million kWh (83% coverage), and 302.6 million kWh (92% coverage) for the months of October 2014, February 2015, and April 2015, respectively and agreed the individual transaction amounts to supporting documentation consisting of the MISO EP Daily Sales Output Report or Company invoices noting no exceptions.

We were not engaged to and did not conduct an examination, the objective of which would be the expression of an opinion on Section A of Minnesota Power's Annual Report of Automatic Adjustment Charges for the period July 1, 2014 through June 30, 2015 found in Attachment No. 3 of the Company's Annual Report. Accordingly, we do not express such an opinion. 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. and Minnesota Power, and is not intended to be and should not be used by anyone other than these specified parties.

*PricewaterhouseCoopers LLP*

August 31, 2015

Minnesota Power  
MPUC Annual Report  
Automatic Retail Fuel Adjustments and Recovery  
July 2014 - June 2015

**A. Summary - Automatic Adjustment Charges:**

Line No.	Revenue/Accounting Month	May 2014	Jun 2014	Jul 2014	Aug 2014	Sep 2014	Oct 2014	Nov 2014	Dec 2014	Jan 2015	Feb 2015	Mar 2015	Apr 2015	May 2015	Jun 2015
<b>Cost of Fuel</b>															
1	Company's Generating Stations (A/C 151)	\$10,281,254	\$12,158,515	\$12,575,739	\$12,137,170	\$9,036,186	\$7,908,176	\$10,005,579	\$10,730,293	\$13,033,427	\$12,217,931	\$11,032,947	\$8,043,057	\$11,423,019	\$10,090,425
2	Plus: Purchased Energy	14,990,368	9,111,537	12,480,621	12,766,047	16,036,136	17,356,620	14,669,279	12,472,095	11,669,018	13,423,440	12,478,153	14,012,357	9,495,602	10,168,512
2	Less: MISO Schedules 16 & 17 & 24	88,358	45,664	43,408	65,897	20,352	47,695	78,013	63,214	55,510	83,443	100,371	59,242	144,856	(62,786)
3	Less: Fuel Cost Recovered Through Inter-System Sales	5,374,116	5,075,249	6,197,921	6,317,593	9,951,419	6,822,106	6,906,833	7,090,274	7,641,480	7,813,654	7,233,193	6,222,249	7,974,580	7,742,676
4	Total Monthly Cost of Fuel	\$19,809,148	\$16,149,139	\$18,815,031	\$18,519,727	\$15,100,551	\$18,394,995	\$17,690,012	\$16,048,900	\$17,005,455	\$17,744,274	\$16,177,536	\$15,773,923	\$12,799,185	\$12,579,047
5	2-Month Total Cost of Fuel	\$38,614,471	\$35,958,287	\$34,964,170	\$37,334,758	\$33,620,278	\$33,495,546	\$36,085,007	\$33,738,912	\$33,054,355	\$34,749,729	\$33,921,810	\$31,951,459	\$28,573,108	\$25,378,232
<b>KWh Sales</b>															
6	Total Sales of Electricity	1,060,722,507	1,070,120,323	1,147,490,894	1,179,636,215	1,152,683,460	1,165,730,790	1,197,271,038	1,284,225,991	1,333,786,345	1,217,103,598	1,283,970,191	1,173,221,361	1,219,227,239	1,064,498,303
7	Less: Inter-System Sales	225,048,435	232,502,627	252,276,534	291,825,104	405,395,589	307,235,413	324,693,534	341,497,087	370,916,573	318,374,529	348,518,258	328,034,253	454,310,609	390,009,967
8	Total Monthly kWh Sales	835,674,072	837,617,696	895,214,360	887,811,111	747,287,871	858,495,377	872,577,504	942,728,904	962,869,772	898,729,069	935,451,933	845,187,108	764,916,630	674,488,336
9	2-Month Total kWh Sales	1,723,512,293	1,673,291,768	1,732,832,056	1,783,025,471	1,635,098,982	1,605,783,248	1,731,072,881	1,815,306,408	1,905,598,676	1,861,598,841	1,834,181,002	1,780,639,041	1,610,103,738	1,439,404,966
<b>Fuel Adjustment Charge - Fuel Clause 16 (¢/kWh)</b>															
10	2-Month Average Cost of Fuel (¢/kWh)	2.240	2.149	2.018	2.094	2.056	2.086	2.085	1.859	1.735	1.867	1.849	1.794		
11	Base Cost of Fuel (¢/kWh)	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018		
12	Fuel Adjustment Charge (lines 10 - line 11) (¢/kWh)	1.222	1.131	1.000	1.076	1.038	1.068	1.067	0.841	0.717	0.849	0.831	0.776		
13	Applicable During Billing Month of:	Jul 2014	Aug 2014	Sep 2014	Oct 2014	Nov 2014	Dec 2014	Jan 2015	Feb 2015	Mar 2015	Apr 2015	May 2015	Jun 2015		

<b>2-Month Average Cost of Fuel by Energy Type (¢/kWh)</b>													
	Billing Month:	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
14	Generation - Coal	0.782	1.013	1.094	1.083	0.997	0.773	0.768	0.880	0.974	1.046	0.980	0.823
15	Generation - Gas	0.016	0.019	0.018	0.017	0.019	0.019	0.017	0.017	0.017	0.016	0.015	0.013
16	Generation - BioFuel	0.016	0.027	0.025	0.017	0.019	0.020	0.018	0.017	0.017	0.016	0.014	0.013
17	Purchased Power - Coal	0.162	0.002	0.217	0.428	0.413	0.333	0.248	0.276	0.296	0.344	0.348	0.345
18	Purchased Power - Biomass	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	Purchased Power - Hydro	0.088	0.103	0.072	0.045	0.064	0.048	0.024	0.034	0.025	0.012	0.012	0.018
20	Purchased Power - Gas	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	Purchased Power - Wind	0.135	0.114	0.093	0.081	0.090	0.137	0.164	0.129	0.124	0.126	0.126	0.157
22	Purchased Power - Diesel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	Purchased Power - Unknown	1.042	0.871	0.497	0.422	0.453	0.757	0.844	0.506	0.382	0.288	0.300	0.405
24	Total Two-Month Average Cost	2.240	2.149	2.018	2.094	2.056	2.086	2.085	1.859	1.835	1.849	1.794	1.775

Minnesota Power  
MPUC Annual Report  
Automatic Retail Fuel Adjustments and Recovery  
July 2014 - June 2015

**B. Summary - Revenue Collected From Retail Customers Through Fuel Adjustment Charges:**

Line No.	Jul 2014	Aug 2014	Sep 2014	Oct 2014	Nov 2014	Dec 2014	Jan 2015	Feb 2015	Mar 2015	Apr 2015	May 2015	Jun 2015
1	\$18,815,031	\$18,519,727	\$15,100,551	\$18,394,995	\$17,690,012	\$16,048,900	\$17,005,455	\$17,744,274	\$16,177,536	\$15,773,923	\$12,799,185	\$12,579,047
2	895,214,360	887,811,111	747,287,871	858,495,377	872,577,504	942,728,904	962,869,772	898,729,069	935,451,933	845,187,108	764,916,630	674,488,336
3	2.102	2.086	2.021	2.143	2.027	1.702	1.766	1.974	1.729	1.866	1.673	1.865
4	758,849,537	751,246,997	621,645,529	726,494,871	729,867,220	790,135,269	805,181,147	754,014,226	794,591,526	720,050,936	643,287,672	552,283,311
<b>Retail Fuel Clause No. 16</b>												
<b>KWh Sales</b>												
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fuel Cost Recovery (¢/KWh)</b>												
8	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018
9	1.222	1.131	1.000	1.076	1.038	1.068	1.067	0.841	0.717	0.849	0.831	0.776
<b>Fuel Cost Recovery (Total \$)</b>												
10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Retail Fuel Clause -RESIDENTIAL</b>												
<b>KWh Sales</b>												
13	73,854,858	73,962,655	73,069,708	69,211,553	75,515,386	106,102,773	123,925,041	110,782,773	108,974,143	85,160,173	76,767,112	65,441,635
<b>Fuel Cost Recovery (¢/KWh)</b>												
Class Cost Factor (RIDER FOR FUEL AND PURCHASED ENERGY ADJUSTMENT June 1, 2011)												
14	1.07076	1.07076	1.07076	1.07076	1.07076	1.07076	1.07076	1.07076	1.07076	1.07076	1.07076	1.07076
15	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090
16	1.308	1.211	1.071	1.152	1.111	1.144	1.143	0.901	0.768	0.909	0.890	0.831
<b>Fuel Cost Recovery (Total \$)</b>												
17	\$805,018	\$806,193	\$796,460	\$754,406	\$823,118	\$1,156,520	\$1,350,783	\$1,207,532	\$1,187,818	\$928,246	\$836,762	\$713,314
18	\$966,022	\$895,688	\$782,577	\$797,317	\$838,976	\$1,213,816	\$1,416,463	\$998,153	\$836,921	\$774,106	\$683,227	\$543,820
19	\$1,771,039	\$1,701,881	\$1,579,036	\$1,551,723	\$1,662,094	\$2,370,336	\$2,767,246	\$2,205,685	\$2,024,740	\$1,702,352	\$1,519,989	\$1,257,134
<b>Retail Fuel Clause -GENERAL SERVICE</b>												
<b>KWH SALES</b>												
20	52,551,416	54,157,403	52,381,592	48,974,409	48,333,305	58,181,368	63,181,958	60,808,974	58,644,838	52,850,139	50,782,237	46,317,653
<b>FUEL COST RECOVERY (¢/KWH)</b>												
Class Cost Factor (RIDER FOR FUEL AND PURCHASED ENERGY ADJUSTMENT June 1, 2011)												
21	1.07093	1.07093	1.07093	1.07093	1.07093	1.07093	1.07093	1.07093	1.07093	1.07093	1.07093	1.07093
22	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090
23	1.309	1.211	1.071	1.152	1.112	1.144	1.143	0.901	0.768	0.909	0.890	0.831
<b>FUEL COST RECOVERY (\$)</b>												
24	\$572,810	\$590,316	\$570,959	\$533,821	\$526,833	\$634,177	\$688,683	\$662,818	\$639,229	\$576,067	\$553,526	\$504,862
25	\$687,898	\$655,846	\$561,007	\$564,185	\$537,466	\$665,595	\$722,170	\$547,889	\$450,392	\$480,408	\$451,962	\$384,900
26	\$1,260,708	\$1,246,162	\$1,131,966	\$1,098,006	\$1,064,299	\$1,299,772	\$1,410,853	\$1,210,707	\$1,089,621	\$1,056,474	\$1,005,488	\$889,762

Minnesota Power  
MPUC Annual Report  
Automatic Retail Fuel Adjustments and Recovery  
July 2014 - June 2015

**Retail Fuel Clause -LARGE LIGHT AND POWER**

<b>KWH SALES</b>													
27	Retail kWh Sales Subject to Fuel Clause	122,136,242	126,430,336	124,574,195	121,512,488	116,050,872	120,170,169	127,194,147	118,394,002	118,355,286	115,916,353	113,905,747	110,577,561
<b>FUEL COST RECOVERY (¢/KWH)</b>													
Class Cost Factor (RIDER FOR FUEL AND PURCHASED ENERGY ADJUSTMENT Nov 2, 2009)													
28	ENERGY ADJUSTMENT Nov 2, 2009	1.00424	1.00424	1.00424	1.00424	1.00424	1.00424	1.00424	1.00424	1.00424	1.00424	1.00424	1.00424
29	Base Cost of Fuel (¢/kWh) (line 11, section A x line 28)	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022
30	Fuel Adjustment Charge (¢/kWh)(line 12, section A x line 28)	1.227	1.136	1.004	1.081	1.042	1.073	1.072	0.845	0.720	0.853	0.835	0.779
<b>FUEL COST RECOVERY (\$)</b>													
31	Base Cost of Fuel (line 27 x line 29)	\$1,248,232	\$1,292,118	\$1,273,148	\$1,241,858	\$1,186,040	\$1,228,139	\$1,299,924	\$1,209,987	\$1,209,591	\$1,184,665	\$1,164,117	\$1,130,103
32	Fuel Adjustment Charge (line 27 x line 30)	\$1,498,612	\$1,436,249	\$1,250,725	\$1,313,550	\$1,209,250	\$1,289,426	\$1,363,521	\$1,000,429	\$852,158	\$988,766	\$951,113	\$861,399
33	Subtotal (line 31 + line 32)	\$2,746,844	\$2,728,367	\$2,523,873	\$2,555,408	\$2,395,290	\$2,517,565	\$2,663,445	\$2,210,416	\$2,061,749	\$2,173,432	\$2,115,230	\$1,991,502

**Retail Fuel Clause -LARGE POWER**

<b>KWH SALES</b>													
34	Retail kWh Sales Subject to Fuel Clause	507,358,289	493,663,490	368,397,714	483,289,765	486,373,261	501,760,401	486,801,975	460,406,633	505,099,134	462,988,609	398,679,932	327,397,257
<b>FUEL COST RECOVERY (¢/KWH)</b>													
Class Cost Factor (RIDER FOR FUEL AND PURCHASED ENERGY ADJUSTMENT Nov 2, 2009)													
35	ENERGY ADJUSTMENT Nov 2, 2009	0.97769	0.97769	0.97769	0.97769	0.97769	0.97769	0.97769	0.97769	0.97769	0.97769	0.97769	0.97769
36	Base Cost of Fuel (¢/kWh) (line 11, section A x line 35)	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.995
37	Fuel Adjustment Charge (¢/kWh)(line 12, section A x line 35)	1.195	1.106	0.978	1.052	1.015	1.044	1.043	0.822	0.701	0.830	0.812	0.759
<b>FUEL COST RECOVERY (\$)</b>													
38	Base Cost of Fuel (line 34 x line 36)	\$5,048,215	\$4,911,952	\$3,665,557	\$4,808,733	\$4,839,414	\$4,992,516	\$4,843,680	\$4,581,046	\$5,025,736	\$4,606,737	\$3,966,865	\$3,257,603
39	Fuel Adjustment Charge (line 34 x line 37)	\$6,062,932	\$5,459,918	\$3,602,930	\$5,084,208	\$4,936,689	\$5,238,379	\$5,077,345	\$3,784,543	\$3,540,745	\$3,842,805	\$3,237,281	\$2,484,945
40	Subtotal (line 38 + line 39)	\$11,111,147	\$10,371,870	\$7,268,487	\$9,892,941	\$9,776,103	\$10,230,895	\$9,921,024	\$8,365,589	\$8,566,481	\$8,449,542	\$7,204,146	\$5,742,548

**Retail Fuel Clause -MUNICIPAL PUMPING**

<b>KWH SALES</b>													
41	Retail kWh Sales Subject to Fuel Clause	1,626,285	1,533,825	1,533,448	1,466,503	1,418,706	1,538,164	1,642,082	1,615,302	1,622,892	1,512,948	1,532,693	1,332,828
<b>FUEL COST RECOVERY (¢/KWH)</b>													
Class Cost Factor (RIDER FOR FUEL AND PURCHASED ENERGY ADJUSTMENT Nov 2, 2009)													
42	ENERGY ADJUSTMENT Nov 2, 2009	0.98103	0.98103	0.98103	0.98103	0.98103	0.98103	0.98103	0.98103	0.98103	0.98103	0.98103	0.98103
43	Base Cost of Fuel (¢/kWh) (line 11, section A x line 42)	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999
44	Fuel Adjustment Charge (¢/kWh)(line 12, section A x line 42)	1.199	1.110	0.981	1.056	1.018	1.048	1.047	0.825	0.703	0.833	0.815	0.761
<b>FUEL COST RECOVERY (\$)</b>													
45	Base Cost of Fuel (line 41 x line 43)	\$16,247	\$15,323	\$15,319	\$14,650	\$14,173	\$15,366	\$16,404	\$16,137	\$16,213	\$15,114	\$15,312	\$13,315
46	Fuel Adjustment Charge (line 41 x line 44)	\$19,499	\$17,025	\$15,043	\$15,486	\$14,442	\$16,120	\$17,193	\$13,326	\$11,409	\$12,603	\$12,491	\$10,143
47	Subtotal (line 45 + line 46)	\$35,746	\$32,348	\$30,362	\$30,137	\$28,615	\$31,486	\$33,597	\$29,463	\$27,622	\$27,717	\$27,803	\$23,458



Minnesota Power  
MPUC Annual Report  
Automatic Retail Fuel Adjustments and Recovery  
July 2014 - June 2015

**Retail Fuel Clause -LIGHTING**

<b>KWH SALES</b>													
48	Retail kWh Sales Subject to Fuel Clause	1,322,447	1,499,288	1,688,872	2,040,153	2,175,690	2,382,394	2,435,944	2,006,542	1,895,233	1,622,714	1,619,951	1,216,377
<b>FUEL COST RECOVERY (¢/KWH)</b>													
Class Cost Factor (RIDER FOR FUEL AND PURCHASED ENERGY ADJUSTMENT Nov 2, 2009)													
49	ENERGY ADJUSTMENT Nov 2, 2009	0.74029	0.74029	0.74029	0.74029	0.74029	0.74029	0.74029	0.74029	0.74029	0.74029	0.74029	0.74029
50	Base Cost of Fuel (¢/kWh) (line 11, section A x line 49)	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754	0.754
51	Fuel Adjustment Charge (¢/kWh)(line 12, section A x line 49)	0.905	0.837	0.740	0.797	0.768	0.791	0.790	0.623	0.531	0.629	0.615	0.574
<b>FUEL COST RECOVERY (\$)</b>													
52	Base Cost of Fuel (line 48 x line 50)	\$9,971	\$11,305	\$12,734	\$15,383	\$16,405	\$17,963	\$18,367	\$15,129	\$14,290	\$12,235	\$12,214	\$9,171
53	Fuel Adjustment Charge (line 48 x line 51)	\$11,968	\$12,549	\$12,498	\$16,260	\$16,709	\$18,845	\$19,244	\$12,501	\$10,064	\$10,207	\$9,963	\$6,982
54	Subtotal (line 52 + line 53)	\$21,939	\$23,854	\$25,232	\$31,643	\$33,114	\$36,808	\$37,611	\$27,630	\$24,354	\$22,442	\$22,177	\$16,153
<b>Total Fuel Cost Recovery From Retail Sales:</b>		Jul 2014	Aug 2014	Sep 2014	Oct 2014	Nov 2014	Dec 2014	Jan 2015	Feb 2015	Mar 2015	Apr 2015	May 2015	Jun 2015
61	Base Cost of Fuel (line 10+line 17+ line 24+ line 31+ line 38+ line 45+ line 52 + line 58)	\$7,700,494	\$7,627,206	\$6,334,178	\$7,368,851	\$7,405,982	\$8,044,682	\$8,217,842	\$7,692,649	\$8,092,877	\$7,323,064	\$6,548,796	\$5,628,368
62	Fuel Adjustment Charge (line 11+ line 18+ line 25+ line 32+ line 39+ line 46+ line 53 + line 59)	\$9,246,930	\$8,477,275	\$6,224,779	\$7,791,007	\$7,553,533	\$8,442,180	\$8,615,935	\$6,356,840	\$5,701,689	\$6,108,895	\$5,346,037	\$4,292,189
63	Total Fuel Cost Recovery (line 12+ line 19+ line 26+ line 33+ line 40+ line 47+ line 54 + line 60)	\$16,947,424	\$16,104,481	\$12,558,957	\$15,159,858	\$14,959,515	\$16,486,862	\$16,833,777	\$14,049,489	\$13,794,566	\$13,431,959	\$11,894,833	\$9,920,557

**C. Summary - Over (Under) Recovery From Automatic Adjustment Charges:**

Line No.		Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
1	Total Retail Fuel Cost Recovery (line 63, section B)	\$16,947,424	\$16,104,481	\$12,558,957	\$15,159,858	\$14,959,515	\$16,486,862	\$16,833,777	\$14,049,489	\$13,794,566	\$13,431,959	\$11,894,833	\$9,920,557
2	Retail kWh Sales Subject to FAC (line 4, section B)	758,849,537	751,246,997	621,645,529	726,494,871	729,867,220	790,135,269	805,181,147	754,014,226	794,591,526	720,050,936	643,287,672	552,283,311
3	KWh Sales Under Competitive Rates / (line 6, section B)	0	0	0	0	0	0	0	0	0	0	0	0
4	Subtotal (line 2 + line 3)	758,849,537	751,246,997	621,645,529	726,494,871	729,867,220	790,135,269	805,181,147	754,014,226	794,591,526	720,050,936	643,287,672	552,283,311
5	Actual Monthly Cost of Fuel (¢/kWh) (line 3, section B)	2.102	2.086	2.021	2.143	2.027	1.702	1.766	1.974	1.729	1.866	1.673	1.865
6	Actual Monthly Cost of Fuel for Retail kWh (line 4 x line 5)	\$15,951,017	\$15,671,012	\$12,563,456	\$15,568,785	\$14,794,409	\$13,448,102	\$14,219,499	\$14,884,241	\$13,738,487	\$13,436,150	\$10,762,203	\$10,300,084
7	Total Over (Under) Recovery - Monthly (line 1- line 6)	\$996,406	\$433,469	(\$4,499)	(\$408,927)	\$165,106	\$3,038,759	\$2,614,278	(\$834,751)	\$56,079	(\$4,191)	\$1,132,631	(\$379,527)
8	Cumulative Over (Under) Recovery (Based on line 7)	\$996,406	\$1,429,875	\$1,425,376	\$1,016,449	\$1,181,555	\$4,220,314	\$6,834,592	\$5,999,841	\$6,055,920	\$6,051,728	\$7,184,359	\$6,804,832

**NOTES:**

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 Nov. 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

**PUBLIC DOCUMENT  
TRADE SECRET DATA  
HAS BEEN EXCISED**

## **Minnesota Power Five-Year Projection of Fuel Costs July 2015 - June 2020**

Attached is Minnesota Power's five-year projection of fuel costs by source of power, which is based on data, generated by the Electric Financial Forecast. Forecast data beyond 2015 is available on an annual basis only.

Minnesota Power has five sources of power:

- Steam Generation at Company owned plants,
- Purchased Power from Square Butte under a Power Purchase Agreement,
- Purchased Power from MISO wholesale market and from other power suppliers,
- Hydro Power from Company owned generating plants (for which there is no energy cost), and
- Wind Generation from Company owned generating plants, and from other power suppliers

The major assumptions in determining the fuel cost projections are:

1. The Bison 4 wind project was completed and is expected to provide an 835,000 MWh annually.
2. Minnesota Power's steam generation is expected to decrease in order to seek a sustainable balance of energy generation that is dependable, affordable and environmentally sound to best serve its customers as stated in its integrated resource plan filed on March 1, 2013. In 2015 Minnesota Power ceased coal operation from its Taconite Harbor Unit 3 generator (75 MW) and converted its Laskin Energy Center to natural gas which is planned to run significantly less than its previous baseload operation as it serves as a peaking resource for customer power supply.
3. Total Steam generation costs attributed to coal are expected to **[TRADE SECRET DATA HAS BEEN EXCISED]** from 2015 to 2020.

**PUBLIC DOCUMENT  
TRADE SECRET DATA  
HAS BEEN EXCISED**

4. Starting in June 2015 purchased generation from Square Butte declined to reflect MP's decreased share of the units total output of approximately 22%. After 2022, Minnesota Power's share of the output will continue to be reduced per the North Dakota Wind Project.
5. Minnesota Power continues to use wholesale market purchases and bilateral contracts to meet its energy requirements.
6. Minnesota Power has about 116 MW of Hydroelectric capability for its native load of customers. There is no energy cost associated with this energy source. Hydro generation is projected to **[TRADE SECRET DATA HAS BEEN EXCISED]**.
7. Minnesota Power's load is expected to increase significantly as idled large industrial customers return, additional large industrial customers begin or expand operation in our service territory and growth in our Resale customer class continues. Minnesota Power's outlook includes an increase in annual customer energy requirements of over 1,500,000 MWhs of energy from 2015 to 2020.
8. Minnesota Power included its decision to put the Taconite Harbor Unit 1 and Taconite Harbor Unit 2 on economic standby starting in the fall of 2016 as recommended in MP's 2015 Integrated Resource Plan.
9. Minnesota Power has developed a robust, portfolio-based solar strategy consisting of three pillars of focus: the customer, community and utility to meet and integrate solar power supply. This strategy was submitted on June 1, 2015 as part of the Company's SES Report. Minnesota Power will add approximately 33 MW of solar powered generation to its portfolio to comply with the 2020 SES requirements. The 2015 Integrated Resource Plan includes Minnesota Power's strategy to comply with the SES. This filing contains the assumed solar generation from this strategy for the planning years 2015-2020.

MINNESOTA POWER  
 FIVE-YEAR PROJECTION OF FUEL COSTS  
 JULY 2015 - JUNE 2020

MP GENERATION					PURCHASES				COSTS RECOVERED THRU SALES	TOTAL FUEL COST	TOTAL FAC SALES	AVERAGE FUEL COST												
STEAM GENERATION			WIND GEN	HYDRO	SQUARE BUTTE		MARKET																	
COAL COST \$(000)	OIL & OTHER COST \$(000)	TOTAL MWh	TOTAL MWh	TOTAL MWh	COST \$(000)	TOTAL MWh	COST \$(000)	TOTAL MWh	COST \$(000)	\$(000)	MWh	per MWh												
[TRADE SECRET DATA EXCISED]																								
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OCT																								
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DEC 15																								
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JUL 17 - JUN 18																								
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JUL 19 - JUN 20																								
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## Notice of Availability of Reports

To: All Interveners in Minnesota Power  
Retail Rate Proceedings  
Docket No. E-015/GR-09-1151

The Minnesota Public Utilities Commission requires Minnesota Power and other Minnesota public utilities to file various annual reports concerning utility operations with the Commission as specified in Minnesota Rules 7825.2800 to 7825.2840. The subject matter of the reports filed includes the following:

- a) Procurement policies for selecting fuel and energy purchased
- b) Independent auditor's report with regard to monthly fuel adjustments
- c) Charges made under automatic fuel adjustment clauses
- d) Five-year projection of fuel costs
- e) MISO Compliance Report and Cost Impacts
- f) List of Network Resources
- g) Matrix of Reporting Requirements for MISO Day 2 Cost and ASM Orders
- h) MISO Day 2/ASM monthly charges and allocations
- i) ASM Annual and Daily Charges Summary
- j) ARRs information and process
- k) Generation maintenance expenses
- l) Transformer inventory
- m) Report Addressing the Purchase Power Agreement with Manitoba Hydro
- n) Offsetting Revenues and/or Compensation Received by Investor-Owned Utilities
- o) Annual Identification of Forced Outages and Lessons Learned
- p) Comparison and Reconciliation of the MISO Accredited Value of Generators Using MISO Accredited UCAP Values and Integrated Resource Plan Capacity Ratings
- q) Congestion Analysis
- r) Plant Outages Contingency Plans
- s) Oliver County I and II Wind Curtailment Reporting
- t) Bison Curtailment Reporting

Minnesota Rule 7825.2840 requires Minnesota Power to provide this notice of availability of such reports to all Interveners in the previous two general rate cases. Copies of the above reports are available at Minnesota Power. Please note that certain information contained in these reports is considered trade secret and is unavailable to the public. Requests for public copies of this report should be forwarded to:

Minnesota Power  
Leann Oehlerking-Boes  
Manager - Energy Pricing & Billing  
30 West Superior Street  
Duluth, MN 55802

**Certificate of Service**

It is hereby certified that the foregoing Notice of Availability of Reports was served as so indicated to the parties on the attached service list.

**Minnesota Power**

By:

\_\_\_\_\_/s/ Leann Oehlerking-Boes

Leann Oehlerking-Boes  
Manager – Energy Pricing & Billing

Dated: August 31, 2015

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

AFFIDAVIT OF SERVICE VIA  
E-FILING AND  
FIRST CLASS MAIL

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Susan Romans, of the City of Duluth, County of St. Louis, State of Minnesota, says that on the 31<sup>st</sup> day of August, 2015, she e-filed Minnesota Power's Annual Reports Containing Fuel Information and Data on the Minnesota Public Utilities Commission via electronic filing. The remaining parties on the attached service list were served as requested.



\_\_\_\_\_  
Susan Romans

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Christopher	Anderson	canderson@allete.com	Minnesota Power	30 W Superior St  Duluth, MN 558022191	Electronic Service	No	GEN_SL_Minnesota Power_AAA Serv Lst
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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**Minnesota Power Compliance Report on  
MISO Operations and Cost Impacts to Minnesota Power  
Docket No. E-015/PA-01-539**

## Background

On April 26, 2002, the Commission approved Minnesota Power's petition to transfer functional control of certain transmission facilities to the Midcontinent Independent System Operator, Inc. (MISO). In compliance to the Order (Docket No. E-015/PA-01-539), Minnesota Power is required to report the following information as part of its AAA report:

- Section 2, Item C, Part 3 (a):  
The Schedule 10 administrative charges paid to the MISO under MISO tariff.
- Section 2, Item C, Part 3 (b):  
Any amount of MISO administrative charge deferred by the MISO for later recovery.
- Section 2, Item C, Part 5 (c):  
Each instance where the MISO directed MP to curtail MP's own generation, for reliability reasons, that resulted in an interruption of firm retail electric service to MP's retail customers in Minnesota.
- Section 2, Item C, Part 5 (d):  
Each instance where the MISO directed the curtailment of a delivery of a firm purchased power supply that subsequently resulted in an interruption of firm retail electric service to MP's retail customers in Minnesota.
- Section 2, Item C, Part 8 (b):  
Changes to MISO tariffs that may ultimately affect the rates of retail customers in Minnesota, and on MP's efforts to minimize MISO transmission service costs.
- Section 2, Item C, Part 8 (c):  
An annual analysis of how the transfer of operational control to the MISO has affected MP's overall transmission costs and revenues and its overall energy costs for retail customers, including –
  - i. an analysis of how MISO membership has affected MP's ability to use its own generating sources when they are the least-cost power source; and
  - ii. MP's ability to access low-cost power on the wholesale market for its retail customers.
- Section 2, Item C, Part 8 (d):  
Each instance where the MISO directed MP to redispatch MP's own generation for reliability reasons, including an explanation of financial impact on rates, if any, and the reason for the redispatch, if known.

**1. Section 2, Item C, Part 3 (a):  
Schedule 10 Administrative Charges Paid by MP to MISO under  
MISO Tariff**

<b>Period</b>	<b>Invoiced Amount</b>	<b>Minnesota Jurisdictional Amount</b>
July 2014	\$168,512.99	\$130,715.52
August 2014	\$123,618.66	\$95,891.00
September 2014	\$158,458.17	\$122,916.00
October 2014	\$168,578.16	\$130,766.08
November 2014	\$168,967.31	\$131,067.94
December 2014	\$180,613.59	\$140,101.96
January 2015	\$181,054.36	\$140,443.87
February 2015	\$162,985.89	\$126,428.15
March 2015	\$195,363.79	\$151,543.69
April 2015	\$172,575.73	\$133,866.99
May 2015	\$146,482.74	\$113,626.66
June 2015	\$167,207.41	\$129,702.79
<b>Total</b>	<b>\$1,994,418.80</b>	<b>\$1,547,070.66</b>

The total Schedule 10 charges billed by MISO for the reporting period represents a 14.07% increase from the total Schedule 10 charges billed by MISO for the previous reporting period. This increase is attributable as follows: 1) Although Minnesota Power reported a 0.98% decrease in demand MWhs and 2.2% decrease in energy Mwhs, there was an increase in the average rate during the report period. 2) The average rate for demand MWhs increased by 14.0% and the average rate for energy MWhs increased by 17.91%.

The Minnesota Jurisdictional Amount in the above table was obtained using a Minnesota Jurisdictional percentage of 77.57% as approved in Minnesota Power's latest rate case.

**2. Section 2, Item C, Part 3(b):  
MISO Administrative Charges Deferred by MISO for Later Recovery**

MISO deferred \$2,500,000 per month for the ten month period March through December, 2003 for a total of \$25,000,000 (Dockets ER02-111-002 and ER02-652-001), to be recovered monthly from Transmission Customers over a five-year period beginning Feb.1, 2008.

**3. Section 2, Item C, Part 5 (c):**



**Each Instance Where MISO Directed MP to Curtail MP's Own Generation, for Reliability Reasons, that Resulted in an Interruption of Firm Retail Electric Service to MP's Retail Customers in Minnesota**

There was no occurrence of said conditions during this reporting period.

- 4. Section 2, Item C, Part 5(d):  
Each Instance where MISO Directed the Curtailment of a Delivery of a Firm Purchased Power Supply that subsequently resulted in an Interruption of Firm Retail Electric Service to MP's Retail Customers in Minnesota**

There was no occurrence of said conditions during this reporting period.

- 5. Section 2, Item C, Part 8 (b):  
Changes to MISO Tariffs That May Ultimately Affect the Rates of Retail Customers in Minnesota, and on MP's Efforts to Minimize MISO Transmission Service Costs**

Minnesota Power continues to support ongoing efforts to minimize MISO transmission service costs. Minnesota Power representatives participate in the MISO Transmission Owners Committee and the Transmission Owners Tariff Working Group, which make decisions on certain rate and revenue distribution changes pursuant to the MISO Transmission Owners Agreement. These committees also monitor the MISO budget development process, as well as review year to date cost updates. Minnesota Power also has representatives closely monitoring the Market Sub-Committee and OATT Business Practices efforts. Minnesota Power knows of no tariff changes that may ultimately affect the rates of retail customers in Minnesota.

- 6. Section 2, Item C, Part 8 (c):**  
**Annual Analysis of How the Transfer of Operational Control to the MISO Has Affected MP's Overall Transmission Costs and Revenues and Its Overall Energy Costs for Retail Customers, Including**
- i. An Analysis of How MISO Membership Has affected MP's Ability to Use Its Own Generating Sources When They Are the Least-Cost Power Source; and**
  - ii. MP's Ability to Access Low-Cost Power on the Wholesale Market for Its Retail Customers**

Prior to becoming a MISO member, Minnesota Power paid fees to MAPP (Regional Reliability and Regional Transmission), for use of the transmission systems under MAPP Schedule F Tariff. Currently, the majority of transmission transactions now take place under the MISO Tariff. MISO transmission charges include an administration fee (Schedule 10, similar to the fee collected by MAPP), network integration service, and point-to-point service charges. Minnesota Power also receives revenue from MISO for other MISO entities' utilization of the Minnesota Power transmission facilities. Considering the costs and revenues associated with the formation of the basic Day 1 RTO (Regional Transmission Organization), Minnesota Power's net difference in the fees, transmission revenues, and transmission expenses have increased slightly compared to pre-MISO.

Minnesota Power participates in the MISO Day-Ahead, Real-Time, and Ancillary Services Market, which commenced April 1, 2005. Minnesota Power's generation is dispatched in response to MISO market price signals. This has allowed Minnesota Power to use its generation resources to meet customer needs when Minnesota Power generation is the lowest cost resource, and to reduce its generation and purchase energy in the wholesale market when market energy is the lowest cost resource. As a result, the MISO market structure has allowed Minnesota Power to continue to make extensive use of the wholesale power market to secure low cost energy for its customers.

Other benefits of the MISO Market include increased purchase options, more transparent pricing, and the ability to purchase only the amount of energy needed each hour rather than buying energy blocks provided by a traditional bilateral market. All have provided savings for our retail customers. The benefits of MISO have more than offset the additional costs incurred to implement the market. In addition, the MISO market allows Minnesota Power and other MISO members' access to an expansive footprint consisting of a diverse set of generation and transmission resources, which, when coupled with appropriate rules and an independent market monitoring function, fosters a robust wholesale energy market.

- 7. Section 2, Item C, Part 8 (d):  
Each Instance Where MISO Directed MP to Redispatch MP's Owned  
Generation for Reliability Reasons, Including an Explanation of  
Financial Impact on Rates, if any, and the Reason for the  
Redispatch, if known.**

There was no occurrence of said conditions during this reporting period.

Minnesota Power's list of Network Resources Designated to Serve Native Load  
(Docket No. E-015/M-05-277 dated December 20, 2006)

**Minnesota Power**  
**Network Resources Designated to Serve Native Load**

<b><u>Steam Generation</u></b> (1)	<b><u>MW</u></b> (2)
Boswell Energy Center	
Unit No. 1	67.8
Unit No. 2	68.1
Unit No. 3	362.9
Unit No. 4	469.6
Taconite Harbor Energy Center	
Unit No. 1	76.0
Unit No. 2	76.6
Unit No. 3	-
Laskin Energy Center	
Unit No. 1	44.6
Unit No. 2	44.7
Hibbard Energy Center	
Unit No. 3/4	61.5
Cloquet Energy Center (TG5)	
	22.6
<b><u>Hydro Generation</u></b>	<b><u>MW</u></b> (2)
Thomson	15.0
Blanchard	12.0
Fond du Lac	12.0
Other Hydro	10.3
<b><u>Wind Generation</u></b>	<b><u>MW</u></b> (4)
Taconite Ridge	3.6
Bison	89.6
<b><u>Long Term Purchase</u></b>	<b><u>MW</u></b> (2)
Square Butte (3)	100.3
Oliver County 1	8.7
Oliver County 2	8.7
Wing River	-

- Notes:**
- (1) Steam Generation is also provided by MP Non-Regulated Units: Rapids Energy Center (29.3 MW). This unit is not included in MISO's definition of "Network Resources" because it is generation behind the meter at the customers' site.
  - (2) All quantities relate to MISO Planning Year 2015-2016 as these quantities are currently in effect. Values are comprised from the MISO Planning Year 2015-2016 List of GVTC Test Results as found in the Planning Year 2015-2016 unit list of capacity.
  - (3) Minnesota Power's share of Square Butte.
  - (4) All quantities relate to MISO Planning Year 2015-2016 as these quantities are currently in effect. Values are comprised from the MISO Planning Year 2015-2016 List of Capacity Credit Results as found in the Planning Year 2015-2016 unit list of capacity.

Minnesota Power  
Additional Reporting Requirements Matrix  
Outlined In Dockets  
E-015/M-05-277  
E-015/M-08-528

Order Establishing Accounting Treatment for MISO Day 2/ASM Costs  
E-015/M-05-277

	Reporting Requirement	Requirement Satisfied in Reporting Document
A.	<p>Provide additional information regarding plans with respect to acquiring fuel and purchase energy:            1) Overview of plans for acquiring fuel &amp; purchased energy and actions to minimize or lower fuel costs, including:</p> <ul style="list-style-type: none"> <li>• Planned actions to minimize or lower fuel costs, including financial instruments and hedging</li> <li>• Plans to cover fuel and energy risk during planned unit outages</li> <li>• Plans for optimization of congestion cost hedging through FTR's</li> </ul> <p>2) Provide list of network resources designated to serve native load.</p>	<p>Annual AAA Report, Attachment No. 1</p> <p>Annual AAA Report, Attachment No. 7</p>
B.	<p>Provide Annual FAC Forecast for next 12 months including:</p> <ul style="list-style-type: none"> <li>• Fuel and energy costs</li> <li>• MISO Day 2 Costs &amp; Revenues</li> <li>• Major changes affecting stability of forecast due to changes in utility cost inputs</li> <li>• Projected variance in fuel/purchased power due to increased volatility in markets</li> <li>• An explanation of deviations between forecast and actual costs in previous year</li> </ul>	<p>Annual monthly FAC Forecast submitted after final budget is approved in December in the December fuel filing prepared the following January.</p> <p>Explanations of major changes and deviations between forecast and actual costs for previous year will be included in the annual FAC report to customers, which will also be submitted to the DOC (and MPUC) by the beginning of March each year.</p>
C.	<p>Prepare a summary AAA filing stating key factors affecting costs including RSG &amp; RNU along with the FAC Forecast. The FAC Forecast shall be shared with customer representatives who sign a protective agreement.</p>	<p>Annual monthly FAC Forecast submitted after final budget is approved in December.</p> <p>Annual FAC report to Key Account Customers will be finalized as soon after the end of each calendar year as possible, typically the beginning of March, and provided to customers who sign confidentiality agreements.</p>
D.	<p>Meet with customer representatives to discuss FCA forecast and new proposals in MISO Day 2 Market.</p>	<p>As requested by interested parties who have signed a confidentiality agreement</p>
E.	<p>Monthly FAC forecasts will be revised when forecast is expected to exceed the original budget by more than 10%</p>	<p>Monthly FAC Report</p>
F.	<p>When the FAC forecast deviates from actual costs by 15% or more, MP will explain and quantify the difference, including an explanation of the extent to which the costs can be controlled.</p>	<p>Monthly FAC Report</p>
G.	<p>Provide monthly and year-to-date MISO Day 2 costs by charge type category</p> <p><b>Revised format in 2008 with clear allocations of MISO Day 2 costs and revenues between retail and wholesale customers.</b></p>	<p>Monthly FAC Report</p> <p>Annually in AAA filing for 12 months of filing period and 1 summary for a total of 13 pages, Attachment No. 9</p>
H.	<p>Supplement monthly FAC reports with any significant events affecting costs</p>	<p>Monthly FAC Report</p>

Order Establishing Accounting Treatment for MISO Day 2/ASM Costs  
E-015/M-05-277

	Reporting Requirement	Requirement Satisfied in Reporting Document
I.	Summary of the ARR process and information	Annual AAA Filing, Attachment No. 11
J.	Generation Maintenance Expenses with a comparison to the maintenance budget filed in the utility's most recent rate case	Annual AAA Filing, Attachment No. 12



The Department of Commerce- Division of Energy Resources Recommendations for Reporting  
Requirements for ASM Cost Recovery  
E-015-M-08-528

	Reporting Requirement	Requirement Satisfied in Reporting Document
A.	<p>Not later than February 6, 2010, the utilities shall file a request to validate recovery to date and continue to recover ASM charges (credits and costs) including:</p> <ul style="list-style-type: none"> <li>• Analysis of the costs and benefits of participation in ASM</li> <li>• Address the potential for double recovery of such costs</li> </ul> <p>Upon request from any party, the utility shall submit their request for recovery with supporting analysis within 30 days of the request.</p>	Annual ASM Cost Benefit Filing completed and sent February 6, 2010
B.	<p>The utilities shall also provide quarterly reports addressing the costs and benefits resulting from their participation in ASM, beginning May 15, 2009. These reports will be submitted within 45 days after the end of the applicable calendar year.</p>	Quarterly Filings sent 5/15/09, 8/15/09 and 11/15/09
C.	<p>The Department of Commerce- Division of Energy Resources recommends that the following be included in their final ASM Report:</p> <ul style="list-style-type: none"> <li>• A list of whether and when MISO charged each utility for deployment failure in 2009</li> <li>• The amount of any such charge</li> <li>• The cause for deployment failure or deployment that was late</li> <li>• Why the utility should be allowed to recover any such deployment charges</li> </ul> <p>Minnesota Power to follow up in reply comments regarding the following:</p> <p>CRDFC-</p> <ul style="list-style-type: none"> <li>• what the causes were for the penalties</li> <li>• why they should be recovered from ratepayers</li> <li>• how MP intends to address in the future</li> </ul> <p>Regarding Excessive/Deficient-</p> <ul style="list-style-type: none"> <li>• explain the causes for the charge</li> <li>• why it should be recovered from ratepayers</li> </ul> <p>The Department of Commerce- Division of Energy Resources recommends that the utility address whether the current Purchase Power Agreements (PPA) provide for compensation to the utility when the generation under the PPA does not show up due to an outage or other problem</p> <p>If so, the utility should indicate whether that compensation is given back to ratepayers via the FCA</p> <p>If not, utilities should:</p> <ul style="list-style-type: none"> <li>• Explain why its appropriate for ratepayers to pay those penalties</li> </ul>	Response comments filed 7-28-10

The Department of Commerce- Division of Energy Resources Recommendations for Reporting  
Requirements for ASM Cost Recovery  
E-015-M-08-528

	Reporting Requirement	Requirement Satisfied in Reporting Document
D.	<p>The Department of Commerce- Division of Energy Resources recommends that ASM Cost Recovery Analysis be reviewed in future AAA Filings in the formats used by Xcel and Minnesota Power including the written narratives;</p> <p>Format suggested:</p> <ul style="list-style-type: none"> <li>• Minnesota Power's February 5, 2010 Attachment 1 for annual basis</li> <li>• Xcel's February 5, 2010 Attachment A for daily activity of ASM and overall net savings created by ASM plus the addition of year end totals</li> <li>• Written narrative consistent with Xcel and Minnesota Power's 4<sup>th</sup> quarter ASM Report</li> </ul> <p>January 2010- June 2010 on AAA report filed September 1, 2010</p> <p>July-2010- June 2011 on AAA report filed September 1, 2011</p>	<p>Annual AAA Filing, Attachment No. 10</p>

**Attachment 9 - Minnesota Power's Monthly MISO Day 2 Charges and Allocation  
(Docket E, G-999/AA-07-1130).**

**Description of the following categories shown in Attachment 9:**

- 1) **FAC Retail** – Include 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 MWh sales to MISO, the source of which was a purchase from another entity that was intended to serve customer 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 customer 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 Productions 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-FCA sales first to help ensure that the FCA 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's then determines the source of the FCA MWh by a separate analysis. A similar analysis is not done for non-FCA sales because there has not been a need to report the sources of non-FCA sales. The company does not have a system in place and has not seen the need to identify the sources of non-FCA sales. We are unable to identify what portion of Day Ahead and Real Time Energy was assigned to the other non-FCA 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 3) MISO Non-Liquidation, 4) MISO Liquidation, 5) Others-Liquidation, and 7) Contract Sales as these amounts are not tracked separately by Minnesota Power's systems as discussed above.

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	July 2014	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																
1a	Day Ahead Asset Energy	4470-0000 or 55500-0000 or 55500-0050	3,469,464.10									-				
5	Day Ahead Non-Asset Energy	55500-0027	(1,069,460.58)									-				
13a	Real Time Asset Energy	4470-0000 or 55500-0000 or 55500-0050	(464,579.49)									-				
	Excessive Energy Amount	55500-0066	20,926.92									-				
	Non-Excessive Energy Amount	55500-0069	(23,894.31)									-				
22	Real Time Non-Asset Energy	55500-0043	51,780.66									-				
<b>Subtotal</b>			<b>1,984,237.30</b>	<b>758,850</b>	<b>2,224,933.96</b>			<b>136,365</b>	<b>392,635.40</b>			<b>2,617,569.36</b>	<b>5,653</b>			
<b>Day Ahead and Real Time Energy Loss</b>																
1c	Day Ahead Loss	4470-0000 or 55500-0000 or 55500-0050	1,272,797.70		906,706.19		-		160,006.98		-	1,066,713.17		-		(4,121.17)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	300,812.26		214,779.95		-		37,902.34		-	252,682.30		-		(1,096.92)
13c	Real Time Loss	4470-0000 or 55500-0000 or 55500-0050	(16,003.07)		-		(11,400.15)		-		(2,011.79)	(13,411.94)		-		-
14	Real Time Distribution of Losses	55500-0041	(470,269.31)		-		(335,772.29)		-		(59,253.93)	(395,026.22)		-		-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	(2,925.50)		-		(2,088.81)		-		(368.61)	(2,457.42)		-		-
<b>Subtotal</b>			<b>1,084,412.08</b>	<b>758,850</b>	<b>1,121,486.15</b>	<b>758,850</b>	<b>(349,261.24)</b>	<b>136,365</b>	<b>197,909.32</b>	<b>136,365</b>	<b>(61,634.34)</b>	<b>908,499.89</b>	<b>5,653</b>	<b>-</b>	<b>5,653</b>	<b>(5,218.09)</b>
<b>Virtual Energy</b>																
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-		-		-
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>-</b>	<b>758,850</b>	<b>-</b>	<b>758,850</b>	<b>-</b>	<b>136,365</b>	<b>-</b>	<b>136,365</b>	<b>-</b>	<b>-</b>	<b>5,653</b>	<b>-</b>	<b>5,653</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	121,639.10		86,850.32		-		15,326.53		-	102,176.84		-		(443.56)
19	Real Time Market Administration (Schedule 17)	55500-0036	8,050.05		5,747.74		-		1,014.31		-	6,762.04		-		(29.35)
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	7,972.75		5,692.54		-		1,004.57		-	6,697.11		-		(29.07)
<b>Subtotal</b>			<b>137,661.90</b>	<b>758,850</b>	<b>98,290.60</b>	<b>758,850</b>	<b>-</b>	<b>136,365</b>	<b>17,345.40</b>	<b>136,365</b>	<b>-</b>	<b>115,636.00</b>	<b>5,653</b>	<b>-</b>	<b>5,653</b>	<b>(501.99)</b>

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	July 2014	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																
1b	Day Ahead Congestion	4470-0000 or 55500-0000 or 55500-0050	448.02		319.16		-		56.32		-	375.48		-		(1.45)
13b	Real Time Congestion	4470-0000 or 55500-0000 or 55500-0050	224,146.09		159,675.53		-		28,178.03		-	187,853.56		-		(725.76)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	233,394.95		166,643.99		-		29,407.76		-	196,051.76		-		(851.08)
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	(6,769.00)		-		(4,833.07)		-		(852.89)	(5,685.96)		-		-
	Auction Revenue Rights Transaction Amount	55500-0058	(512,442.17)		-		(365,883.71)		-		(64,567.71)	(430,451.42)		-		-
	Financial Transmission Rights Annual Transaction Amount	55500-0059	508,969.36		363,404.12		-		64,130.14		-	427,534.26		-		(1,855.97)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	34,882.96		24,906.43		-		4,395.25		-	29,301.69		-		(127.20)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(111,645.09)		-		(79,714.59)		-		(14,067.28)	(93,781.88)		-		-
28	Financial Transmission Rights Hourly Allocation	55500-0032	(106,195.22)		-		(75,823.39)		-		(13,380.60)	(89,203.98)		-		-
30	Financial Transmission Rights Monthly Allocation	55500-0033	(17,803.26)		-		(12,711.53)		-		(2,243.21)	(14,954.74)		-		-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	10,600.36		7,568.66		-		1,335.65		-	8,904.30		-		(38.65)
	FTR Guarantee Uplift Amount	55500-0055	(10,682.66)		-		(7,627.42)		-		(1,346.02)	(8,973.43)		-		-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	55,082.60		39,328.98		-		6,940.41		-	46,269.38		-		(200.86)
31	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>301,986.93</b>	<b>758,850</b>	<b>761,846.87</b>	<b>758,850</b>	<b>(546,593.70)</b>	<b>136,365</b>	<b>134,443.56</b>	<b>136,365</b>	<b>(96,457.71)</b>	<b>253,239.01</b>	<b>5,653</b>	<b>-</b>	<b>5,653</b>	<b>(3,800.98)</b>
<b>RSG &amp; Make Whole Payments</b>																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	22,025.30		15,726.06		-		2,775.19		-	18,501.25		-		(80.32)
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(321.01)		-		(229.20)		-		(40.45)	(269.65)		-		-
	Real Time Price Volatility Make Whole Payment	55500-0057	(29,804.69)		-		(21,280.55)		-		(3,755.39)	(25,035.94)		-		-
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	14,298.48		10,209.11		-		1,801.61		-	12,010.72		-		(52.14)
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>6,198.08</b>	<b>758,850</b>	<b>25,935.18</b>	<b>758,850</b>	<b>(21,509.75)</b>	<b>136,365</b>	<b>4,576.80</b>	<b>136,365</b>	<b>(3,795.84)</b>	<b>5,206.39</b>	<b>5,653</b>	<b>-</b>	<b>5,653</b>	<b>(132.46)</b>
<b>RNU &amp; Misc Charges</b>																
20	Real Time Miscellaneous	55500-0042	(10,372.75)		-		(7,406.14)		-		(1,306.97)	(8,713.11)		-		-
21	Real Time Net Inadvertent Distribution	55500-0044	36,790.65		26,268.52		-		4,635.62		-	30,904.15		-		(134.16)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	78,461.32		56,021.38		-		9,886.13		-	65,907.51		-		(286.11)
26	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>104,879.22</b>	<b>758,850</b>	<b>82,289.91</b>	<b>758,850</b>	<b>(7,406.14)</b>	<b>136,365</b>	<b>14,521.75</b>	<b>136,365</b>	<b>(1,306.97)</b>	<b>88,098.54</b>	<b>5,653</b>	<b>-</b>	<b>5,653</b>	<b>(420.27)</b>

MINNESOTA POWER		Account	July 2014		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																	
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	-										-				
<b>Subtotal</b>			-		<b>758,850</b>	-	<b>758,850</b>	-	<b>136,365</b>	-	<b>136,365</b>	-	-	<b>5,653</b>	-	<b>5,653</b>	-
<b>ASM Charge Types (12 Other)</b>																	
	Day Ahead Regulation Amount	55500-0062	(60,430.89)			-	<b>(43,147.66)</b>				-	<b>(7,614.29)</b>	(50,761.95)		-		-
	Day Ahead Spinning Reserve Amount	55500-0063	(21,796.65)			-	<b>(15,562.81)</b>				-	<b>(2,746.38)</b>	(18,309.19)		-		-
	Day Ahead Supplemental Reserve Amount	55500-0064	11.38			<b>8.13</b>	-				<b>1.43</b>	-	9.56		-		<b>(0.04)</b>
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-			-	-				-	-	-		-		-
	Net Regulation Adjustment Amount	55500-0068	1,245.77			<b>889.48</b>	-				<b>156.97</b>	-	1,046.45		-		<b>(4.54)</b>
	Real Time Regulation Amount	55500-0070	18,037.68			<b>12,878.90</b>	-				<b>2,272.75</b>	-	15,151.65		-		<b>(65.77)</b>
	Regulation Reserve Cost Distribution Amount	55500-0071	22,679.31			<b>16,193.03</b>	-				<b>2,857.59</b>	-	19,050.62		-		<b>(82.70)</b>
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	10,276.91			<b>7,337.71</b>	-				<b>1,294.89</b>	-	8,632.60		-		<b>(37.48)</b>
	Real Time Spinning Reserve Amount	55500-0072	1,588.57			<b>1,134.24</b>	-				<b>200.16</b>	-	1,334.40		-		<b>(5.79)</b>
	Spinning Reserve Cost Distribution Amount	55500-0073	17,634.34			<b>12,590.92</b>	-				<b>2,221.93</b>	-	14,812.85		-		<b>(64.30)</b>
	Real Time Supplemental Reserve Amount	55500-0074	(1.37)			-	<b>(0.98)</b>				-	<b>(0.17)</b>	(1.15)		-		-
	Supplemental Reserve Cost Distribution Amount	55500-0075	10,050.00			<b>7,175.70</b>	-				<b>1,266.30</b>	-	8,442.00		-		<b>(36.65)</b>
<b>Subtotal</b>			<b>(704.95)</b>		<b>758,850</b>	<b>58,208.11</b>	-	<b>(58,711.44)</b>	<b>136,365</b>	<b>10,272.02</b>	-	<b>(10,360.84)</b>	<b>(592.16)</b>	-	-	-	<b>(297.28)</b>
<b>Grand Total</b>			<b>3,618,670.57</b>		<b>758,850</b>	<b>4,372,990.76</b>	<b>758,850</b>	<b>(983,482.28)</b>	<b>136,365</b>	<b>771,704.25</b>	<b>136,365</b>	<b>(173,555.70)</b>	<b>3,987,657.04</b>	<b>5,653</b>	-	<b>5,653</b>	<b>(10,371.06)</b>

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

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

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

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



MINNESOTA POWER		Account	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION		Number	July 2014															
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																		
Day Ahead Asset Energy	4470-0000 or 55500-0000 or 55500-0050																	
Day Ahead Non-Asset Energy	55500-0027																	
Real Time Asset Energy	4470-0000 or 55500-0000 or 55500-0050																	
Excessive Energy Amount	55500-0066																	
Non-Excessive Energy Amount	55500-0069																	
Real Time Non-Asset Energy	55500-0043																	
<b>Subtotal</b>			<b>1,984,237.30</b>	<b>34,103</b>			<b>-</b>			<b>20,834</b>					<b>191,686</b>			
<b>Day Ahead and Real Time Energy Loss</b>																		
Day Ahead Loss	4470-0000 or 55500-0000 or 55500-0050																	
Day Ahead Financial Bilateral Transaction Loss	55500-0022																	
Real Time Loss	4470-0000 or 55500-0000 or 55500-0050																	
Real Time Distribution of Losses	55500-0041																	
Real Time Financial Bilateral Transaction Loss	55500-0038																	
<b>Subtotal</b>			<b>1,084,412.08</b>	<b>34,103</b>	<b>-</b>	<b>34,103</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,834</b>	<b>8,327.12</b>	<b>20,834</b>	<b>(19,229.54)</b>	<b>191,686</b>	<b>278,662.12</b>	<b>191,686</b>	<b>(86,629.42)</b>	
<b>Virtual Energy</b>																		
Day Ahead Virtual Energy	55500-0030																	
Real Time Virtual Energy	55500-0049																	
<b>Subtotal</b>			<b>-</b>	<b>34,103</b>	<b>-</b>	<b>34,103</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,834</b>	<b>-</b>	<b>20,834</b>	<b>-</b>	<b>191,686</b>	<b>-</b>	<b>191,686</b>	<b>-</b>	
<b>Schedule 16 &amp; 17 1/</b>																		
Day Ahead Market Administration (Schedule 17)	55500-0020																	
Real Time Market Administration (Schedule 17)	55500-0036																	
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031																	
<b>Subtotal</b>			<b>137,661.90</b>	<b>34,103</b>	<b>-</b>	<b>34,103</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,834</b>	<b>-</b>	<b>20,834</b>	<b>(1,849.91)</b>	<b>191,686</b>	<b>24,377.81</b>	<b>191,686</b>	<b>-</b>	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	July 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																		
Day Ahead Congestion	4470-0000 or 55500-0000 or 55500-0050	448.02																
Real Time Congestion	4470-0000 or 55500-0000 or 55500-0050	224,146.09																
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	233,394.95																
Real Time Financial Bilateral Transaction Congestion	55500-0037	(6,769.00)																
Auction Revenue Rights Transaction Amount	55500-0058	(512,442.17)																
Financial Transmission Rights Annual Transaction Amount	55500-0059	508,969.36																
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	34,882.96																
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(111,645.09)																
Financial Transmission Rights Hourly Allocation	55500-0032	(106,195.22)																
Financial Transmission Rights Monthly Allocation	55500-0033	(17,803.26)																
Financial Transmission Rights Yearly Allocation	55500-0035	-																
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	10,600.36																
FTR Guarantee Uplift Amount	55500-0055	(10,682.66)																
Financial Transmission Rights Monthly Transaction Amount	55500-0056	55,082.60																
Financial Transmission Rights Transaction	55500-0034	-																
<b>Subtotal</b>		<b>301,986.93</b>	<b>34,103</b>	<b>-</b>	<b>34,103</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,834</b>	<b>13,078.91</b>	<b>20,834</b>	<b>(14,007.26)</b>	<b>191,686</b>	<b>189,042.14</b>	<b>191,686</b>	<b>(135,564.90)</b>	
<b>RSG &amp; Make Whole Payments</b>																		
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	22,025.30																
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(321.01)																
Real Time Price Volatility Make Whole Payment	55500-0057	(29,804.69)																
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	14,298.48																
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-																
<b>Subtotal</b>		<b>6,198.08</b>	<b>34,103</b>	<b>-</b>	<b>34,103</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,834</b>	<b>514.69</b>	<b>20,834</b>	<b>(488.12)</b>	<b>191,686</b>	<b>6,432.38</b>	<b>191,686</b>	<b>(5,334.80)</b>	
<b>RNU &amp; Misc Charges</b>																		
Real Time Miscellaneous	55500-0042	(10,372.75)																
Real Time Net Inadvertent Distribution	55500-0044	36,790.65																
Real Time Revenue Neutrality Uplift Amount	55500-0045	78,461.32																
Real Time Uninstructed Deviation	55500-0048	-																
<b>Subtotal</b>		<b>104,879.22</b>	<b>34,103</b>	<b>-</b>	<b>34,103</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,834</b>	<b>177.21</b>	<b>20,834</b>	<b>(1,548.77)</b>	<b>191,686</b>	<b>20,409.35</b>	<b>191,686</b>	<b>(1,836.85)</b>	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Account Number	July 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																	
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	-															
<b>Subtotal</b>		-	<b>34,103</b>	-	<b>34,103</b>	-	-	-	-	<b>20,834</b>	-	<b>20,834</b>	-	<b>191,686</b>	-	<b>191,686</b>	-
<b>ASM Charge Types (12 Other)</b>																	
Day Ahead Regulation Amount	55500-0062	(60,430.89)									<b>1,032.44</b>						<b>(10,701.38)</b>
Day Ahead Spinning Reserve Amount	55500-0063	(21,796.65)									<b>372.39</b>						<b>(3,859.85)</b>
Day Ahead Supplemental Reserve Amount	55500-0064	11.38									-			<b>2.02</b>			-
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-									-			-			-
Net Regulation Adjustment Amount	55500-0068	1,245.77									-			<b>(16.74)</b>		<b>220.61</b>	-
Real Time Regulation Amount	55500-0070	18,037.68									-			<b>(242.39)</b>		<b>3,194.20</b>	-
Regulation Reserve Cost Distribution Amount	55500-0071	22,679.31									-			<b>(304.77)</b>		<b>4,016.16</b>	-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	10,276.91									-			<b>(138.10)</b>		<b>1,819.88</b>	-
Real Time Spinning Reserve Amount	55500-0072	1,588.57									-			<b>(21.35)</b>		<b>281.31</b>	-
Spinning Reserve Cost Distribution Amount	55500-0073	17,634.34									-			<b>(236.97)</b>		<b>3,122.77</b>	-
Real Time Supplemental Reserve Amount	55500-0074	(1.37)									<b>0.02</b>			-		-	<b>(0.24)</b>
Supplemental Reserve Cost Distribution Amount	55500-0075	10,050.00									-			<b>(135.05)</b>		<b>1,779.70</b>	-
<b>Subtotal</b>		<b>(704.95)</b>	-	-	-	-	-	-	-	-	<b>1,404.85</b>	-	<b>(1,095.53)</b>	-	<b>14,436.64</b>	-	<b>(14,561.48)</b>
<b>Grand Total</b>		<b>3,618,670.57</b>	<b>34,103</b>	-	<b>34,103</b>	-	-	-	-	<b>20,834</b>	<b>23,502.78</b>	<b>20,834</b>	<b>(38,219.12)</b>	<b>191,686</b>	<b>533,360.44</b>	<b>191,686</b>	<b>(243,927.45)</b>

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	August 2014	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	2,835,324.64									-				
5	Day Ahead Non-Asset Energy	55500-0027	(1,330,779.65)									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(255,707.36)									-				
	Excessive Energy Amount	55500-0066	9,985.39									-				
	Non-Excessive Energy Amount	55500-0069	496,291.87									-				
22	Real Time Non-Asset Energy	55500-0043	(99,751.34)									-				
<b>Subtotal</b>			<b>1,655,363.55</b>	<b>751,247</b>	<b>2,262,963.04</b>			<b>136,564</b>	<b>399,346.42</b>			<b>2,662,309.46</b>	<b>10,712</b>			
<b>Day Ahead and Real Time Energy Loss</b>																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,424,982.50		1,008,983.35		-		178,055.88		-	1,187,039.23		-		(17,509.72)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	124,641.30		87,934.44		-		15,517.84		-	103,452.28		-		(1,385.66)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(14,857.68)		-		(10,520.24)		-		(1,856.51)	(12,376.75)		-		-
14	Real Time Distribution of Losses	55500-0041	(578,410.73)		-		(408,068.77)		-		(72,012.14)	(480,080.91)		-		-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>956,355.39</b>	<b>751,247</b>	<b>1,096,917.78</b>	<b>751,247</b>	<b>(418,589.01)</b>	<b>136,564</b>	<b>193,573.73</b>	<b>136,564</b>	<b>(73,868.65)</b>	<b>798,033.86</b>	<b>10,712</b>	<b>-</b>	<b>10,712</b>	<b>(18,895.39)</b>
<b>Virtual Energy</b>																
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-				
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-				
<b>Subtotal</b>			<b>-</b>	<b>751,247</b>	<b>-</b>	<b>751,247</b>	<b>-</b>	<b>136,564</b>	<b>-</b>	<b>136,564</b>	<b>-</b>	<b>-</b>	<b>10,712</b>	<b>-</b>	<b>10,712</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	107,548.03		75,875.14		-		13,389.73		-	89,264.86		-		(1,195.64)
19	Real Time Market Administration (Schedule 17)	55500-0036	5,245.02		3,700.36		-		653.00		-	4,353.37		-		(58.31)
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,124.88		4,321.10		-		762.55		-	5,083.65		-		(68.09)
<b>Subtotal</b>			<b>118,917.93</b>	<b>751,247</b>	<b>83,896.60</b>	<b>751,247</b>	<b>-</b>	<b>136,564</b>	<b>14,805.28</b>	<b>136,564</b>	<b>-</b>	<b>98,701.88</b>	<b>10,712</b>	<b>-</b>	<b>10,712</b>	<b>(1,322.04)</b>

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	August 2014	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	196,929.32		139,439.19		-		24,606.92		-	164,046.10		-		(2,419.80)
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(82,685.79)		-		(58,547.09)		-		(10,331.84)	(68,878.93)		-		-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	8,809.05		6,214.78		-		1,096.73		-	7,311.51		-		(97.93)
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-	-		-		-
	Auction Revenue Rights Transaction Amount	55500-0058	(512,442.17)		-		(361,527.95)		-		(63,799.05)	(425,327.00)		-		-
	Financial Transmission Rights Annual Transaction Amount	55500-0059	508,969.36		359,077.88		-		63,366.69		-	422,444.57		-		(5,658.33)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	34,882.60		24,609.67		-		4,342.88		-	28,952.56		-		(387.80)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(111,805.97)		-		(78,879.11)		-		(13,919.84)	(92,798.96)		-		-
28	Financial Transmission Rights Hourly Allocation	55500-0032	(100,701.87)		-		(71,045.17)		-		(12,537.38)	(83,582.55)		-		-
30	Financial Transmission Rights Monthly Allocation	55500-0033	(3,373.05)		-		(2,379.69)		-		(419.94)	(2,799.63)		-		-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(5,721.24)		-		(4,036.33)		-		(712.29)	(4,748.63)		-		-
	FTR Guarantee Uplift Amount	55500-0055	7,043.40		4,969.12		-		876.90		-	5,846.02		-		(78.30)
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	14,549.48		10,264.66		-		1,811.41		-	12,076.07		-		(161.75)
31	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>(45,546.88)</b>	<b>751,247</b>	<b>544,575.31</b>	<b>751,247</b>	<b>(576,415.35)</b>	<b>136,564</b>	<b>96,101.53</b>	<b>136,564</b>	<b>(101,720.36)</b>	<b>(37,458.87)</b>	<b>10,712</b>	<b>-</b>	<b>10,712</b>	<b>(8,803.91)</b>
<b>RSG &amp; Make Whole Payments</b>																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	39,897.69		28,147.82		-		4,967.26		-	33,115.08		-		(443.55)
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	72.49		51.14		-		9.03		-	60.17		-		(0.81)
	Real Time Price Volatility Make Whole Payment	55500-0057	(18,615.14)		-		(13,132.98)		-		(2,317.58)	(15,450.57)		-		-
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	46,576.91		32,860.01		-		5,798.83		-	38,658.84		-		(517.81)
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>67,931.95</b>	<b>751,247</b>	<b>61,058.97</b>	<b>751,247</b>	<b>(13,132.98)</b>	<b>136,564</b>	<b>10,775.11</b>	<b>136,564</b>	<b>(2,317.58)</b>	<b>56,383.52</b>	<b>10,712</b>	<b>-</b>	<b>10,712</b>	<b>(962.16)</b>
<b>RNU &amp; Misc Charges</b>																
20	Real Time Miscellaneous	55500-0042	(1,770.41)		-		(1,249.02)		-		(220.42)	(1,469.44)		-		-
21	Real Time Net Inadvertent Distribution	55500-0044	(36,755.59)		-		(25,931.07)		-		(4,576.07)	(30,507.14)		-		-
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	106,859.80		75,389.59		-		13,304.05		-	88,693.63		-		(1,187.98)
26	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>68,333.80</b>	<b>751,247</b>	<b>75,389.59</b>	<b>751,247</b>	<b>(27,180.09)</b>	<b>136,564</b>	<b>13,304.05</b>	<b>136,564</b>	<b>(4,796.49)</b>	<b>56,717.05</b>	<b>10,712</b>	<b>-</b>	<b>10,712</b>	<b>(1,187.98)</b>

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	August 2014	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																
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	-									-				
<b>Subtotal</b>			-	<b>751,247</b>	-	<b>751,247</b>	-	<b>136,564</b>	-	<b>136,564</b>	-	-	<b>10,712</b>	-	<b>10,712</b>	-
<b>ASM Charge Types (12 Other)</b>																
	Day Ahead Regulation Amount	55500-0062	(17,571.48)		-		(12,396.68)		-		(2,187.65)	(14,584.33)		-		-
	Day Ahead Spinning Reserve Amount	55500-0063	(22,952.17)		-		(16,192.76)		-		(2,857.55)	(19,050.30)		-		-
	Day Ahead Supplemental Reserve Amount	55500-0064	6.97		4.92		-		0.87		-	5.79		-		(0.08)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	235.04		165.82		-		29.26		-	195.08		-		(2.61)
	Net Regulation Adjustment Amount	55500-0068	577.04		407.10		-		71.84		-	478.94		-		(6.42)
	Real Time Regulation Amount	55500-0070	10,194.26		7,192.05		-		1,269.19		-	8,461.24		-		(113.33)
	Regulation Reserve Cost Distribution Amount	55500-0071	21,064.71		14,861.15		-		2,622.56		-	17,483.71		-		(234.18)
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	3,024.14		2,133.53		-		376.51		-	2,510.04		-		(33.62)
	Real Time Spinning Reserve Amount	55500-0072	(8,307.19)		-		(5,860.72)		-		(1,034.25)	(6,894.97)		-		-
	Spinning Reserve Cost Distribution Amount	55500-0073	18,571.51		13,102.20		-		2,312.15		-	15,414.35		-		(206.46)
	Real Time Supplemental Reserve Amount	55500-0074	(3.18)		-		(2.24)		-		(0.40)	(2.64)		-		-
	Supplemental Reserve Cost Distribution Amount	55500-0075	7,747.81		5,466.08		-		964.60		-	6,430.68		-		(86.13)
<b>Subtotal</b>			<b>12,587.46</b>	<b>751,247</b>	<b>43,332.85</b>	-	<b>(34,452.40)</b>	<b>136,564</b>	<b>7,646.97</b>	-	<b>(6,079.84)</b>	<b>10,447.59</b>	-	-	-	<b>(682.84)</b>
<b>Grand Total</b>			<b>2,833,943.20</b>	<b>751,247</b>	<b>4,168,134.14</b>	<b>751,247</b>	<b>(1,069,769.83)</b>	<b>136,564</b>	<b>735,553.08</b>	<b>136,564</b>	<b>(188,782.91)</b>	<b>3,645,134.49</b>	<b>10,712</b>	-	<b>10,712</b>	<b>(31,854.32)</b>

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

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

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

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

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Account Number	August 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
		<b>Day Ahead and Real Time Energy</b>															
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	2,835,324.64															
Day Ahead Non-Asset Energy	55500-0027	(1,330,779.65)															
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(255,707.36)															
Excessive Energy Amount	55500-0066	9,985.39															
Non-Excessive Energy Amount	55500-0069	496,291.87															
Real Time Non-Asset Energy	55500-0043	(99,751.34)															
<b>Subtotal</b>		<b>1,655,363.55</b>	<b>43,793</b>							<b>20,111</b>						<b>217,209</b>	
<b>Day Ahead and Real Time Energy Loss</b>																	
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,424,982.50															
Day Ahead Financial Bilateral Transaction Loss	55500-0022	124,641.30															
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(14,857.68)															
Real Time Distribution of Losses	55500-0041	(578,410.73)															
Real Time Financial Bilateral Transaction Loss	55500-0038	-															
<b>Subtotal</b>		<b>956,355.39</b>	<b>43,793</b>		<b>43,793</b>					<b>20,111</b>	<b>19,028.51</b>	<b>20,111</b>	<b>(35,475.90)</b>	<b>217,209</b>	<b>313,503.57</b>	<b>217,209</b>	<b>(119,839.27)</b>
<b>Virtual Energy</b>																	
Day Ahead Virtual Energy	55500-0030	-															
Real Time Virtual Energy	55500-0049	-															
<b>Subtotal</b>		<b>-</b>	<b>43,793</b>		<b>43,793</b>					<b>20,111</b>	<b>-</b>	<b>20,111</b>	<b>-</b>	<b>217,209</b>	<b>-</b>	<b>217,209</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																	
Day Ahead Market Administration (Schedule 17)	55500-0020	107,548.03															
Real Time Market Administration (Schedule 17)	55500-0036	5,245.02															
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,124.88															
<b>Subtotal</b>		<b>118,917.93</b>	<b>43,793</b>		<b>43,793</b>					<b>20,111</b>	<b>-</b>	<b>20,111</b>	<b>(2,482.11)</b>	<b>217,209</b>	<b>24,020.20</b>	<b>217,209</b>	<b>-</b>

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Account Number	August 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARR</b>																	
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	196,929.32															
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(82,685.79)															
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	8,809.05															
Real Time Financial Bilateral Transaction Congestion	55500-0037	-															
Auction Revenue Rights Transaction Amount	55500-0058	(512,442.17)															
Financial Transmission Rights Annual Transaction Amount	55500-0059	508,969.36															
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	34,882.60															
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(111,805.97)															
Financial Transmission Rights Hourly Allocation	55500-0032	(100,701.87)															
Financial Transmission Rights Monthly Allocation	55500-0033	(3,373.05)															
Financial Transmission Rights Yearly Allocation	55500-0035	-															
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(5,721.24)															
FTR Guarantee Uplift Amount	55500-0055	7,043.40															
Financial Transmission Rights Monthly Transaction Amount	55500-0056	14,549.48															
Financial Transmission Rights Transaction	55500-0034	-															
<b>Subtotal</b>		<b>(45,546.88)</b>	<b>43,793</b>	<b>-</b>	<b>43,793</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,111</b>	<b>26,405.43</b>	<b>20,111</b>	<b>(16,529.25)</b>	<b>217,209</b>	<b>155,839.54</b>	<b>217,209</b>	<b>(164,999.81)</b>
<b>RSG &amp; Make Whole Payments</b>																	
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	39,897.69															
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	72.49															
Real Time Price Volatility Make Whole Payment	55500-0057	(18,615.14)															
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	46,576.91															
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-															
<b>Subtotal</b>		<b>67,931.95</b>	<b>43,793</b>	<b>-</b>	<b>43,793</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,111</b>	<b>595.49</b>	<b>20,111</b>	<b>(1,806.45)</b>	<b>217,209</b>	<b>17,481.62</b>	<b>217,209</b>	<b>(3,760.07)</b>
<b>RNU &amp; Misc Charges</b>																	
Real Time Miscellaneous	55500-0042	(1,770.41)															
Real Time Net Inadvertent Distribution	55500-0044	(36,755.59)															
Real Time Revenue Neutrality Uplift Amount	55500-0045	106,859.80															
Real Time Uninstructed Deviation	55500-0048	-															
<b>Subtotal</b>		<b>68,333.80</b>	<b>43,793</b>	<b>-</b>	<b>43,793</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,111</b>	<b>1,232.43</b>	<b>20,111</b>	<b>(2,230.43)</b>	<b>217,209</b>	<b>21,584.58</b>	<b>217,209</b>	<b>(7,781.85)</b>



MINNESOTA POWER

MISO MONTHLY ALLOCATION

Account Number	August 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																	
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	-														-	-
<b>Subtotal</b>		-	<b>43,793</b>	-	<b>43,793</b>	-	-	-	-	<b>20,111</b>	-	<b>20,111</b>	-	<b>217,209</b>	-	<b>217,209</b>	-
<b>ASM Charge Types (12 Other)</b>																	
Day Ahead Regulation Amount	55500-0062	(17,571.48)									<b>562.11</b>		-		-		<b>(3,549.26)</b>
Day Ahead Spinning Reserve Amount	55500-0063	(22,952.17)									<b>734.23</b>		-		-		<b>(4,636.10)</b>
Day Ahead Supplemental Reserve Amount	55500-0064	6.97									-		<b>(0.15)</b>		<b>1.41</b>		-
Contingency Reserve Deployment																	
Failure Charge Amount	55500-0065	235.04									-		<b>(4.91)</b>		<b>47.48</b>		-
Net Regulation Adjustment Amount	55500-0068	577.04									-		<b>(12.04)</b>		<b>116.56</b>		-
Real Time Regulation Amount	55500-0070	10,194.26									-		<b>(212.78)</b>		<b>2,059.14</b>		-
Regulation Reserve Cost Distribution Amount	55500-0071	21,064.71									-		<b>(439.67)</b>		<b>4,254.85</b>		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	3,024.14									-		<b>(63.12)</b>		<b>610.85</b>		-
Real Time Spinning Reserve Amount	55500-0072	(8,307.19)									<b>265.74</b>		-		-		<b>(1,677.97)</b>
Spinning Reserve Cost Distribution Amount	55500-0073	18,571.51									-		<b>(387.63)</b>		<b>3,751.25</b>		-
Real Time Supplemental Reserve Amount	55500-0074	(3.18)									<b>0.10</b>		-		-		<b>(0.64)</b>
Supplemental Reserve Cost Distribution Amount	55500-0075	7,747.81									-		<b>(161.72)</b>		<b>1,564.98</b>		-
<b>Subtotal</b>		<b>12,587.46</b>	-	-	-	-	-	-	-	-	<b>1,562.19</b>	-	<b>(1,282.02)</b>	-	<b>12,406.51</b>	-	<b>(9,863.97)</b>
<b>Grand Total</b>		<b>2,833,943.20</b>	<b>43,793</b>	-	<b>43,793</b>	-	-	-	-	<b>20,111</b>	<b>48,824.05</b>	<b>20,111</b>	<b>(59,806.16)</b>	<b>217,209</b>	<b>544,836.01</b>	<b>217,209</b>	<b>(306,244.97)</b>

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	September 2014	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	5,136,386.36									-				
5	Day Ahead Non-Asset Energy	55500-0027	(1,205,733.14)									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(84,351.58)									-				
	Excessive Energy Amount	55500-0066	13,377.62									-				
	Non-Excessive Energy Amount	55500-0069	119,580.11									-				
22	Real Time Non-Asset Energy	55500-0043	(346,094.30)									-				
<b>Subtotal</b>			<b>3,633,165.07</b>	<b>621,646</b>	<b>3,408,805.47</b>			<b>125,642</b>	<b>698,189.07</b>			<b>4,106,994.54</b>	<b>5,045</b>			
<b>Day Ahead and Real Time Energy Loss</b>																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	843,688.93		573,367.58		-		117,436.73		-	690,804.32		-		(164.71)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	228,798.69		155,720.39		-		31,894.54		-	187,614.93		-		(53.23)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(117,424.70)		-		(79,801.35)		-		(16,344.85)	(96,146.20)		-		-
14	Real Time Distribution of Losses	55500-0041	(391,107.63)		-		(266,187.85)		-		(54,520.40)	(320,708.26)		-		-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>563,955.29</b>	<b>621,646</b>	<b>729,087.97</b>	<b>621,646</b>	<b>(345,989.20)</b>	<b>125,642</b>	<b>149,331.27</b>	<b>125,642</b>	<b>(70,865.26)</b>	<b>461,564.78</b>	<b>5,045</b>	<b>-</b>	<b>5,045</b>	<b>(217.93)</b>
<b>Virtual Energy</b>																
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-		-		-
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>-</b>	<b>621,646</b>	<b>-</b>	<b>621,646</b>	<b>-</b>	<b>125,642</b>	<b>-</b>	<b>125,642</b>	<b>-</b>	<b>-</b>	<b>5,045</b>	<b>-</b>	<b>5,045</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	110,886.41		75,469.29		-		15,457.57		-	90,926.86		-		(25.80)
19	Real Time Market Administration (Schedule 17)	55500-0036	7,016.53		4,775.45		-		978.10		-	5,753.55		-		(1.63)
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,754.77		4,597.30		-		941.61		-	5,538.91		-		(1.57)
<b>Subtotal</b>			<b>124,657.71</b>	<b>621,646</b>	<b>84,842.04</b>	<b>621,646</b>	<b>-</b>	<b>125,642</b>	<b>17,377.28</b>	<b>125,642</b>	<b>-</b>	<b>102,219.32</b>	<b>5,045</b>	<b>-</b>	<b>5,045</b>	<b>(29.00)</b>

MINNESOTA POWER		Account	September 2014	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
Congestion, FTRs & ARRs																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	253,648.44	172,378.45		-		35,306.43			-	207,684.88		-		(49.52)
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(223,969.11)	-		(152,208.50)		-		(31,175.24)	(183,383.74)		-		-	
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	236,024.96	160,638.59		-		32,901.88		-	193,540.47		-		(54.91)	
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	-		-		-		-	-		-		-	
	Auction Revenue Rights Transaction Amount	55500-0058	(567,228.70)	-		(386,055.85)		-		(79,071.68)	(465,127.53)		-		-	
	Financial Transmission Rights Annual Transaction Amount	55500-0059	560,001.63	381,137.11		-		78,064.23		-	459,201.34		-		(130.28)	
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	29,224.54	19,890.22		-		4,073.90		-	23,964.12		-		(6.80)	
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(55,720.16)	-		(37,923.14)		-		(7,767.39)	(45,690.53)		-		-	
28	Financial Transmission Rights Hourly Allocation	55500-0032	(334,094.17)	-		(227,384.49)		-		(46,572.73)	(273,957.22)		-		-	
30	Financial Transmission Rights Monthly Allocation	55500-0033	(5,427.31)	-		(3,693.83)		-		(756.57)	(4,450.39)		-		-	
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-		-		-		-	-		-		-	
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(21,226.15)	-		(14,446.52)		-		(2,958.93)	(17,405.44)		-		-	
	FTR Guarantee Uplift Amount	55500-0055	23,437.72	15,951.71		-		3,267.22		-	19,218.93		-		(5.45)	
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	(5,683.84)	-		(3,868.42)		-		(792.33)	(4,660.75)		-		-	
31	Financial Transmission Rights Transaction	55500-0034	-	-		-		-		-	-		-		-	
<b>Subtotal</b>			<b>(111,012.15)</b>	<b>621,646</b>	<b>749,996.08</b>	<b>621,646</b>	<b>(825,580.75)</b>	<b>125,642</b>	<b>153,613.66</b>	<b>125,642</b>	<b>(169,094.85)</b>	<b>(91,065.87)</b>	<b>5,045</b>	<b>-</b>	<b>5,045</b>	<b>(246.95)</b>
<b>RSG &amp; Make Whole Payments</b>																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	55,131.98	37,522.83		-		7,685.40		-	45,208.22		-		(12.83)	
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-	-		-		-		-	-		-		-	
	Real Time Price Volatility Make Whole Payment	55500-0057	(25,378.41)	-		(17,272.55)		-		(3,537.75)	(20,810.30)		-		-	
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	29,955.19	20,387.50		-		4,175.75		-	24,563.26		-		(6.97)	
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-	-		-		-		-	-		-		-	
<b>Subtotal</b>			<b>59,708.76</b>	<b>621,646</b>	<b>57,910.33</b>	<b>621,646</b>	<b>(17,272.55)</b>	<b>125,642</b>	<b>11,861.15</b>	<b>125,642</b>	<b>(3,537.75)</b>	<b>48,961.18</b>	<b>5,045</b>	<b>-</b>	<b>5,045</b>	<b>(19.79)</b>
<b>RNU &amp; Misc Charges</b>																
20	Real Time Miscellaneous	55500-0042	(1,321.58)	-		(899.47)		-		(184.23)	(1,083.70)		-		-	
21	Real Time Net Inadvertent Distribution	55500-0044	(68,572.95)	-		(46,670.75)		-		(9,559.07)	(56,229.82)		-		-	
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	210,914.02	143,548.08		-		29,401.41		-	172,949.50		-		(49.07)	
26	Real Time Uninstructed Deviation	55500-0048	-	-		-		-		-	-		-		-	
<b>Subtotal</b>			<b>141,019.49</b>	<b>621,646</b>	<b>143,548.08</b>	<b>621,646</b>	<b>(47,570.22)</b>	<b>125,642</b>	<b>29,401.41</b>	<b>125,642</b>	<b>(9,743.30)</b>	<b>115,635.98</b>	<b>5,045</b>	<b>-</b>	<b>5,045</b>	<b>(49.07)</b>

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	September 2014	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																
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	-									-				
<b>Subtotal</b>			-	<b>621,646</b>	-	<b>621,646</b>	-	<b>125,642</b>	-	<b>125,642</b>	-	-	<b>5,045</b>	-	<b>5,045</b>	-
<b>ASM Charge Types (12 Other)</b>																
	Day Ahead Regulation Amount	55500-0062	(33,422.46)		-		(22,747.33)		-		(4,659.09)	(27,406.42)		-		-
	Day Ahead Spinning Reserve Amount	55500-0063	(17,731.79)		-		(12,068.26)		-		(2,471.81)	(14,540.07)		-		-
	Day Ahead Supplemental Reserve Amount	55500-0064	(78.86)		-		(53.67)		-		(10.99)	(64.67)		-		-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-	-		-		-
	Net Regulation Adjustment Amount	55500-0068	(582.61)		-		(396.52)		-		(81.22)	(477.74)		-		-
	Real Time Regulation Amount	55500-0070	7,374.36		<b>5,018.99</b>		-		<b>1,027.99</b>		-	6,046.98		-		(1.72)
	Regulation Reserve Cost Distribution Amount	55500-0071	25,639.44		<b>17,450.20</b>		-		<b>3,574.14</b>		-	21,024.34		-		(5.96)
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	6,388.98		<b>4,348.34</b>		-		<b>890.62</b>		-	5,238.96		-		(1.49)
	Real Time Spinning Reserve Amount	55500-0072	(1,528.09)		-		(1,040.02)		-		(213.02)	(1,253.03)		-		-
	Spinning Reserve Cost Distribution Amount	55500-0073	23,590.03		<b>16,055.37</b>		-		<b>3,288.45</b>		-	19,343.82		-		(5.49)
	Real Time Supplemental Reserve Amount	55500-0074	41.24		<b>28.07</b>		-		<b>5.75</b>		-	33.82		-		(0.01)
	Supplemental Reserve Cost Distribution Amount	55500-0075	12,779.80		<b>8,697.93</b>		-		<b>1,781.50</b>		-	10,479.44		-		(2.97)
<b>Subtotal</b>			<b>22,470.04</b>	<b>621,646</b>	<b>51,598.91</b>	-	<b>(36,305.80)</b>	<b>125,642</b>	<b>10,568.45</b>	-	<b>(7,436.13)</b>	<b>18,425.43</b>	-	-	-	<b>(17.64)</b>
<b>Grand Total</b>			<b>4,433,964.21</b>	<b>621,646</b>	<b>5,225,788.88</b>	<b>621,646</b>	<b>(1,272,718.52)</b>	<b>125,642</b>	<b>1,070,342.30</b>	<b>125,642</b>	<b>(260,677.29)</b>	<b>4,762,735.37</b>	<b>5,045</b>	-	<b>5,045</b>	<b>(580.38)</b>

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

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

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

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

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	September 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales				
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	
			<b>Day Ahead and Real Time Energy</b>																
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	5,136,386.36																	
Day Ahead Non-Asset Energy	55500-0027	(1,205,733.14)																	
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(84,351.58)																	
Excessive Energy Amount	55500-0066	13,377.62																	
Non-Excessive Energy Amount	55500-0069	119,580.11																	
Real Time Non-Asset Energy	55500-0043	(346,094.30)																	
<b>Subtotal</b>		<b>3,633,165.07</b>	<b>46,364</b>							<b>158,105</b>							<b>195,881</b>		
<b>Day Ahead and Real Time Energy Loss</b>																			
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	843,688.93											(5,161.27)				158,210.59		
Day Ahead Financial Bilateral Transaction Loss	55500-0022	228,798.69											(1,667.89)				42,904.88		
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(117,424.70)											741.27						
Real Time Distribution of Losses	55500-0041	(391,107.63)											2,942.07						
Real Time Financial Bilateral Transaction Loss	55500-0038	-											-						
<b>Subtotal</b>		<b>563,955.29</b>	<b>46,364</b>			<b>-</b>	<b>46,364</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>158,105</b>	<b>3,683.34</b>	<b>158,105</b>	<b>(6,829.16)</b>	<b>195,881</b>	<b>201,115.47</b>	<b>195,881</b>
<b>Virtual Energy</b>																			
Day Ahead Virtual Energy	55500-0030	-																	
Real Time Virtual Energy	55500-0049	-																	
<b>Subtotal</b>		<b>-</b>	<b>46,364</b>			<b>-</b>	<b>46,364</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>158,105</b>	<b>-</b>	<b>158,105</b>	<b>-</b>	<b>195,881</b>	<b>-</b>	<b>195,881</b>
<b>Schedule 16 &amp; 17 1/</b>																			
Day Ahead Market Administration (Schedule 17)	55500-0020	110,886.41											(808.34)				20,793.69		
Real Time Market Administration (Schedule 17)	55500-0036	7,016.53											(51.15)				1,315.76		
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,754.77											(49.24)				1,266.67		
<b>Subtotal</b>		<b>124,657.71</b>	<b>46,364</b>			<b>-</b>	<b>46,364</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>158,105</b>	<b>-</b>	<b>158,105</b>	<b>(908.73)</b>	<b>195,881</b>	<b>23,376.11</b>	<b>195,881</b>

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Account Number	September 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales					
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		
<b>Congestion, FTRs &amp; ARR</b>																			
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	253,648.44																47,564.77	-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(223,969.11)								1,413.86								-	(41,999.23)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	236,024.96																44,259.97	-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-																-	-
Auction Revenue Rights Transaction Amount	55500-0058	(567,228.70)								4,266.92								-	(106,368.09)
Financial Transmission Rights Annual Transaction Amount	55500-0059	560,001.63																105,012.85	-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	29,224.54																5,480.26	-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(55,720.16)								419.15								-	(10,448.78)
Financial Transmission Rights Hourly Allocation	55500-0032	(334,094.17)								2,513.19								-	(62,650.14)
Financial Transmission Rights Monthly Allocation	55500-0033	(5,427.31)								40.83								-	(1,017.74)
Financial Transmission Rights Yearly Allocation	55500-0035	-																-	-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(21,226.15)								159.67								-	(3,980.38)
FTR Guarantee Uplift Amount	55500-0055	23,437.72																4,395.10	-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	(5,683.84)								42.76								-	(1,065.85)
Financial Transmission Rights Transaction	55500-0034	-																-	-
<b>Subtotal</b>		<b>(111,012.15)</b>	<b>46,364</b>	<b>-</b>	<b>46,364</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>158,105</b>	<b>8,856.37</b>	<b>158,105</b>	<b>(7,738.44)</b>	<b>195,881</b>	<b>206,712.94</b>	<b>195,881</b>	<b>(227,530.20)</b>		
<b>RSG &amp; Make Whole Payments</b>																			
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	55,131.98																10,338.48	-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-																-	-
Real Time Price Volatility Make Whole Payment	55500-0057	(25,378.41)								190.91								-	(4,759.02)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	29,955.19																5,617.27	-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-																-	-
<b>Subtotal</b>		<b>59,708.76</b>	<b>46,364</b>	<b>-</b>	<b>46,364</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>158,105</b>	<b>190.91</b>	<b>158,105</b>	<b>(620.27)</b>	<b>195,881</b>	<b>15,955.75</b>	<b>195,881</b>	<b>(4,759.02)</b>		
<b>RNU &amp; Misc Charges</b>																			
Real Time Miscellaneous	55500-0042	(1,321.58)								9.94								-	(247.83)
Real Time Net Inadvertent Distribution	55500-0044	(68,572.95)								515.83								-	(12,858.96)
Real Time Revenue Neutrality Uplift Amount	55500-0045	210,914.02																39,551.10	-
Real Time Uninstructed Deviation	55500-0048	-																-	-
<b>Subtotal</b>		<b>141,019.49</b>	<b>46,364</b>	<b>-</b>	<b>46,364</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>158,105</b>	<b>525.77</b>	<b>158,105</b>	<b>(1,537.51)</b>	<b>195,881</b>	<b>39,551.10</b>	<b>195,881</b>	<b>(13,106.79)</b>		

**MINNESOTA POWER**

**MISO MONTHLY ALLOCATION**

Account Number	September 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales						
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue			
		<b>Grandfathered Charge Types</b>																		
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	-																		
<b>Subtotal</b>		-	<b>46,364</b>	-	<b>46,364</b>	-		-		-		<b>158,105</b>	-	<b>158,105</b>	-		<b>195,881</b>	-	<b>195,881</b>	-
<b>ASM Charge Types (12 Other)</b>																				
Day Ahead Regulation Amount	55500-0062	(33,422.46)										<b>251.42</b>		-			-			<b>(6,267.46)</b>
Day Ahead Spinning Reserve Amount	55500-0063	(17,731.79)										<b>133.39</b>		-			-			<b>(3,325.11)</b>
Day Ahead Supplemental Reserve Amount	55500-0064	(78.86)										<b>0.59</b>		-			-			<b>(14.79)</b>
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-										-		-			-			-
Net Regulation Adjustment Amount	55500-0068	(582.61)										<b>4.38</b>		-			-			<b>(109.25)</b>
Real Time Regulation Amount	55500-0070	7,374.36										-		<b>(53.76)</b>			<b>1,382.86</b>			-
Regulation Reserve Cost Distribution Amount	55500-0071	25,639.44										-		<b>(186.91)</b>			<b>4,807.97</b>			-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	6,388.98										-		<b>(46.57)</b>			<b>1,198.08</b>			-
Real Time Spinning Reserve Amount	55500-0072	(1,528.09)										<b>11.49</b>		-			-			<b>(286.55)</b>
Spinning Reserve Cost Distribution Amount	55500-0073	23,590.03										-		<b>(171.97)</b>			<b>4,423.66</b>			-
Real Time Supplemental Reserve Amount	55500-0074	41.24										-		<b>(0.30)</b>			<b>7.73</b>			-
Supplemental Reserve Cost Distribution Amount	55500-0075	12,779.80										-		<b>(93.16)</b>			<b>2,396.50</b>			-
<b>Subtotal</b>		<b>22,470.04</b>	-	-	-	-		-		-		-	<b>401.27</b>	-	<b>(552.67)</b>	-	<b>14,216.79</b>	-	<b>(10,003.16)</b>	
<b>Grand Total</b>		<b>4,433,964.21</b>	<b>46,364</b>	-	<b>46,364</b>	-		-		-		<b>158,105</b>	<b>13,657.66</b>	<b>158,105</b>	<b>(18,186.76)</b>		<b>195,881</b>	<b>500,928.16</b>	<b>195,881</b>	<b>(350,760.37)</b>

MINNESOTA POWER		Account	October 2014		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																	
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	9,468,085.21										-				
5	Day Ahead Non-Asset Energy	55500-0027	(4,346,150.76)										-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(9,475.84)										-				
	Excessive Energy Amount	55500-0066	15,914.13										-				
	Non-Excessive Energy Amount	55500-0069	(10,496.98)										-				
22	Real Time Non-Asset Energy	55500-0043	(429,567.77)										-				
<b>Subtotal</b>			<b>4,688,307.99</b>		<b>726,495</b>	<b>4,392,175.05</b>			<b>132,001</b>	<b>775,089.71</b>			<b>5,167,264.76</b>	<b>5,939</b>			
<b>Day Ahead and Real Time Energy Loss</b>																	
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	632,835.72			446,016.18	-			78,708.74	-		524,724.92		-		(1,497.22)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	253,416.99			178,785.69	-			31,550.42	-		210,336.10		-		(625.59)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(129,227.08)			-	(91,077.93)			-	(16,072.58)		(107,150.51)		-		-
14	Real Time Distribution of Losses	55500-0041	(502,466.51)			-	(354,490.12)			-	(62,557.08)		(417,047.20)		-		-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-			-	-			-	-		-		-		-
<b>Subtotal</b>			<b>254,559.12</b>		<b>726,495</b>	<b>624,801.87</b>	<b>726,495</b>	<b>(445,568.05)</b>	<b>132,001</b>	<b>110,259.15</b>	<b>132,001</b>	<b>(78,629.66)</b>	<b>210,863.31</b>	<b>5,939</b>	<b>-</b>	<b>5,939</b>	<b>(2,122.81)</b>
<b>Virtual Energy</b>																	
12	Day Ahead Virtual Energy	55500-0030	-			-	-			-	-		-				
27	Real Time Virtual Energy	55500-0049	-			-	-			-	-		-				
<b>Subtotal</b>			<b>-</b>		<b>726,495</b>	<b>-</b>	<b>726,495</b>	<b>-</b>	<b>132,001</b>	<b>-</b>	<b>132,001</b>	<b>-</b>	<b>-</b>	<b>5,939</b>	<b>-</b>	<b>5,939</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																	
4	Day Ahead Market Administration (Schedule 17)	55500-0020	127,172.73			89,720.36	-			15,833.00	-		105,553.37		-		(313.94)
19	Real Time Market Administration (Schedule 17)	55500-0036	8,457.33			5,966.65	-			1,052.94	-		7,019.58		-		(20.88)
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	5,654.94			3,989.56	-			704.04	-		4,693.60		-		(13.96)
<b>Subtotal</b>			<b>141,285.00</b>		<b>726,495</b>	<b>99,676.57</b>	<b>726,495</b>	<b>-</b>	<b>132,001</b>	<b>17,589.98</b>	<b>132,001</b>	<b>-</b>	<b>117,266.55</b>	<b>5,939</b>	<b>-</b>	<b>5,939</b>	<b>(348.78)</b>



MINNESOTA POWER		Account	October 2014	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
Congestion, FTRs & ARRs																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	(785,808.52)	-		(553,829.86)		-		(97,734.68)	(651,564.54)		-		-	
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(226,043.83)	-		(159,313.40)		-		(28,114.13)	(187,427.52)		-		-	
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	511,462.34	360,836.68		-		63,677.06		-	424,513.74		-		(1,262.60)	
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	-		-		-		-	-		-		-	
	Auction Revenue Rights Transaction Amount	55500-0058	(567,228.70)	-		(400,179.85)		-		(70,619.97)	(470,799.82)		-		-	
	Financial Transmission Rights Annual Transaction Amount	55500-0059	560,001.63	395,081.15		-		69,720.20		-	464,801.35		-		(1,382.43)	
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	29,224.06	20,617.57		-		3,638.40		-	24,255.97		-		(72.14)	
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(55,637.02)	-		(39,251.92)		-		(6,926.81)	(46,178.73)		-		-	
28	Financial Transmission Rights Hourly Allocation	55500-0032	13,376.67	9,437.24		-		1,665.40		-	11,102.64		-		(33.02)	
30	Financial Transmission Rights Monthly Allocation	55500-0033	(10,225.52)	-		(7,214.10)		-		(1,273.08)	(8,487.18)		-		-	
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-		-		-		-	-		-		-	
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(23,150.82)	-		(16,332.90)		-		(2,882.28)	(19,215.18)		-		-	
	FTR Guarantee Uplift Amount	55500-0055	25,322.10	17,864.74		-		3,152.60		-	21,017.34		-		(62.51)	
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	21,169.54	14,935.11		-		2,635.61		-	17,570.72		-		(52.26)	
31	Financial Transmission Rights Transaction	55500-0034	-	-		-		-		-	-		-		-	
<b>Subtotal</b>			<b>(507,538.07)</b>	<b>726,495</b>	<b>818,772.50</b>	<b>726,495</b>	<b>(1,176,122.02)</b>	<b>132,001</b>	<b>144,489.26</b>	<b>132,001</b>	<b>(207,550.95)</b>	<b>(420,411.21)</b>	<b>5,939</b>	<b>-</b>	<b>5,939</b>	<b>(2,864.97)</b>
<b>RSG &amp; Make Whole Payments</b>																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	43,261.78	30,521.19		-		5,386.09		-	35,907.28		-		(106.80)	
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(16,149.88)	-		(11,393.74)		-		(2,010.66)	(13,404.40)		-		-	
	Real Time Price Volatility Make Whole Payment	55500-0057	(33,722.09)	-		(23,790.93)		-		(4,198.40)	(27,989.33)		-		-	
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	37,025.19	26,121.27		-		4,609.64		-	30,730.91		-		(91.40)	
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-	-		-		-		-	-		-		-	
<b>Subtotal</b>			<b>30,415.00</b>	<b>726,495</b>	<b>56,642.46</b>	<b>726,495</b>	<b>(35,184.67)</b>	<b>132,001</b>	<b>9,995.73</b>	<b>132,001</b>	<b>(6,209.06)</b>	<b>25,244.45</b>	<b>5,939</b>	<b>-</b>	<b>5,939</b>	<b>(198.20)</b>
<b>RNU &amp; Misc Charges</b>																
20	Real Time Miscellaneous	55500-0042	(2,226.66)	-		(1,570.91)		-		(277.22)	(1,848.13)		-		-	
21	Real Time Net Inadvertent Distribution	55500-0044	20,021.59	14,125.23		-		2,492.69		-	16,617.92		-		(49.43)	
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	261,922.06	184,786.01		-		32,609.30		-	217,395.31		-		(646.59)	
26	Real Time Uninstructed Deviation	55500-0048	-	-		-		-		-	-		-		-	
<b>Subtotal</b>			<b>279,716.99</b>	<b>726,495</b>	<b>198,911.25</b>	<b>726,495</b>	<b>(1,570.91)</b>	<b>132,001</b>	<b>35,101.98</b>	<b>132,001</b>	<b>(277.22)</b>	<b>232,165.10</b>	<b>5,939</b>	<b>-</b>	<b>5,939</b>	<b>(696.01)</b>

MINNESOTA POWER		Account	October 2014		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																	
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	-										-				
<b>Subtotal</b>			-		726,495	-	726,495	-	132,001	-	132,001	-	-	5,939	-	5,939	-
<b>ASM Charge Types (12 Other)</b>																	
	Day Ahead Regulation Amount	55500-0062	(10,549.92)			-	(7,442.97)				-	(1,313.47)	(8,756.43)		-		-
	Day Ahead Spinning Reserve Amount	55500-0063	(16,865.60)			-	(11,898.68)				-	(2,099.77)	(13,998.45)		-		-
	Day Ahead Supplemental Reserve Amount	55500-0064	(38.63)			-	(27.25)				-	(4.81)	(32.06)		-		-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-			-	-				-	-	-		-		-
	Net Regulation Adjustment Amount	55500-0068	(286.77)			-	(202.32)				-	(35.70)	(238.02)		-		-
	Real Time Regulation Amount	55500-0070	(2,667.26)			-	(1,881.75)				-	(332.07)	(2,213.83)		-		-
	Regulation Reserve Cost Distribution Amount	55500-0071	33,818.27			23,858.79	-		4,210.37		-	-	28,069.16		-		(83.48)
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	3,383.56			2,387.10	-		421.25		-	-	2,808.35		-		(8.35)
	Real Time Spinning Reserve Amount	55500-0072	(1,127.21)			-	(795.25)				-	(140.34)	(935.58)		-		-
	Spinning Reserve Cost Distribution Amount	55500-0073	34,719.03			24,494.28	-		4,322.52		-	-	28,816.79		-		(85.71)
	Real Time Supplemental Reserve Amount	55500-0074	(0.13)			-	(0.09)				-	(0.02)	(0.11)		-		-
	Supplemental Reserve Cost Distribution Amount	55500-0075	22,489.22			15,866.14	-		2,799.91		-	-	18,666.05		-		(55.52)
<b>Subtotal</b>			62,874.56		726,495	66,606.31	-	(22,248.31)	132,001	11,754.05	-	(3,926.17)	52,185.88	-	-	-	(233.06)
<b>Grand Total</b>			4,949,620.59		726,495	6,257,586.00	726,495	(1,680,693.97)	132,001	1,104,279.88	132,001	(296,593.05)	5,384,578.85	5,939	-	5,939	(6,463.83)

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

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

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

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

MINNESOTA POWER		Account	October 2014				MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION		Number	Mwh		Cost	Mwh		Revenue	Mwh		Cost	Mwh		Revenue	Mwh		Cost	Mwh		Revenue		
<b>Day Ahead and Real Time Energy</b>																						
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050																					
Day Ahead Non-Asset Energy	55500-0027																					
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050																					
Excessive Energy Amount	55500-0066																					
Non-Excessive Energy Amount	55500-0069																					
Real Time Non-Asset Energy	55500-0043																					
<b>Subtotal</b>			<b>4,688,307.99</b>	<b>55,690</b>									<b>42,361</b>						<b>203,245</b>			
<b>Day Ahead and Real Time Energy Loss</b>																						
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050																					
Day Ahead Financial Bilateral Transaction Loss	55500-0022																					
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050																					
Real Time Distribution of Losses	55500-0041																					
Real Time Financial Bilateral Transaction Loss	55500-0038																					
<b>Subtotal</b>			<b>254,559.12</b>	<b>55,690</b>		<b>-</b>	<b>55,690</b>							<b>42,361</b>	<b>12,574.40</b>	<b>42,361</b>	<b>(15,141.56)</b>		<b>203,245</b>	<b>168,456.06</b>	<b>203,245</b>	<b>(120,070.28)</b>
<b>Virtual Energy</b>																						
Day Ahead Virtual Energy	55500-0030																					
Real Time Virtual Energy	55500-0049																					
<b>Subtotal</b>			<b>-</b>	<b>55,690</b>		<b>-</b>	<b>55,690</b>							<b>42,361</b>	<b>-</b>	<b>42,361</b>	<b>-</b>		<b>203,245</b>	<b>-</b>	<b>203,245</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																						
Day Ahead Market Administration (Schedule 17)	55500-0020																					
Real Time Market Administration (Schedule 17)	55500-0036																					
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031																					
<b>Subtotal</b>			<b>141,285.00</b>	<b>55,690</b>		<b>-</b>	<b>55,690</b>							<b>42,361</b>	<b>-</b>	<b>42,361</b>	<b>(2,487.77)</b>		<b>203,245</b>	<b>26,855.00</b>	<b>203,245</b>	<b>-</b>

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Congestion, FTRs & ARRs

Account Number	October 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
		Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	(785,808.52)								15,119.96				-	
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(226,043.83)								4,349.37				-			(42,965.68)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	511,462.34								-				(9,005.91)	97,217.11		-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-								-				-	-		-
Auction Revenue Rights Transaction Amount	55500-0058	(567,228.70)								11,388.12				-	-		(107,817.00)
Financial Transmission Rights Annual Transaction Amount	55500-0059	560,001.63								-				(9,860.60)	106,443.30		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	29,224.06								-				(514.58)	5,554.82		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(55,637.02)								1,117.01				-	-		(10,575.31)
Financial Transmission Rights Hourly Allocation	55500-0032	13,376.67								-				(235.54)	2,542.59		-
Financial Transmission Rights Monthly Allocation	55500-0033	(10,225.52)								205.30				-	-		(1,943.63)
Financial Transmission Rights Yearly Allocation	55500-0035	-								-				-	-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(23,150.82)								464.79				-	-		(4,400.43)
FTR Guarantee Uplift Amount	55500-0055	25,322.10								-				(445.88)	4,813.14		-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	21,169.54								-				(372.76)	4,023.84		-
Financial Transmission Rights Transaction	55500-0034	-								-				-	-		-
<b>Subtotal</b>		<b>(507,538.07)</b>	<b>55,690</b>	<b>-</b>	<b>55,690</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>42,361</b>	<b>32,644.56</b>	<b>42,361</b>	<b>(20,435.26)</b>	<b>203,245</b>	<b>220,594.81</b>	<b>203,245</b>	<b>(317,066.00)</b>

RSG & Make Whole Payments

Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	43,261.78												(761.76)	8,223.06		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(16,149.88)								324.24				-	-		(3,069.72)
Real Time Price Volatility Make Whole Payment	55500-0057	(33,722.09)								677.03				-	-		(6,409.79)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	37,025.19								-				(651.95)	7,037.63		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-								-				-	-		-
<b>Subtotal</b>		<b>30,415.00</b>	<b>55,690</b>	<b>-</b>	<b>55,690</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>42,361</b>	<b>1,001.27</b>	<b>42,361</b>	<b>(1,413.71)</b>	<b>203,245</b>	<b>15,260.69</b>	<b>203,245</b>	<b>(9,479.50)</b>

RNU & Misc Charges

Real Time Miscellaneous	55500-0042	(2,226.66)								44.70				-	-		(423.24)
Real Time Net Inadvertent Distribution	55500-0044	20,021.59								-				(352.54)	3,805.64		-
Real Time Revenue Neutrality Uplift Amount	55500-0045	261,922.06								-				(4,611.96)	49,785.30		-
Real Time Uninstructed Deviation	55500-0048	-								-				-	-		-
<b>Subtotal</b>		<b>279,716.99</b>	<b>55,690</b>	<b>-</b>	<b>55,690</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>42,361</b>	<b>44.70</b>	<b>42,361</b>	<b>(4,964.51)</b>	<b>203,245</b>	<b>53,590.94</b>	<b>203,245</b>	<b>(423.24)</b>

MINNESOTA POWER		Account	October 2014		MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																				
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	-																		
<b>Subtotal</b>		-	<b>55,690</b>	-	<b>55,690</b>	-	-	-	-	-	-	-	<b>42,361</b>	-	<b>42,361</b>	-	<b>203,245</b>	-	<b>203,245</b>	-
<b>ASM Charge Types (12 Other)</b>																				
Day Ahead Regulation Amount	55500-0062	(10,549.92)												<b>211.81</b>		-				<b>(2,005.29)</b>
Day Ahead Spinning Reserve Amount	55500-0063	(16,865.60)												<b>338.61</b>		-				<b>(3,205.76)</b>
Day Ahead Supplemental Reserve Amount	55500-0064	(38.63)												<b>0.78</b>		-				<b>(7.34)</b>
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-												-		-				-
Net Regulation Adjustment Amount	55500-0068	(286.77)												<b>5.76</b>		-				<b>(54.51)</b>
Real Time Regulation Amount	55500-0070	(2,667.26)												<b>53.55</b>		-				<b>(506.98)</b>
Regulation Reserve Cost Distribution Amount	55500-0071	33,818.27												-		<b>(595.48)</b>	<b>6,428.07</b>			-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	3,383.56												-		<b>(59.58)</b>	<b>643.14</b>			-
Real Time Spinning Reserve Amount	55500-0072	(1,127.21)												<b>22.63</b>		-				<b>(214.26)</b>
Spinning Reserve Cost Distribution Amount	55500-0073	34,719.03												-		<b>(611.34)</b>	<b>6,599.28</b>			-
Real Time Supplemental Reserve Amount	55500-0074	(0.13)												<b>0.00</b>		-				<b>(0.02)</b>
Supplemental Reserve Cost Distribution Amount	55500-0075	22,489.22												-		<b>(395.99)</b>	<b>4,274.68</b>			-
<b>Subtotal</b>		<b>62,874.56</b>	-	-	-	-	-	-	-	-	-	-	-	<b>633.13</b>	-	<b>(1,662.39)</b>	-	<b>17,945.16</b>	-	<b>(5,994.17)</b>
<b>Grand Total</b>		<b>4,949,620.59</b>	<b>55,690</b>	-	<b>55,690</b>	-	-	-	-	-	-	-	<b>42,361</b>	<b>46,898.07</b>	<b>42,361</b>	<b>(46,105.19)</b>	<b>203,245</b>	<b>502,702.65</b>	<b>203,245</b>	<b>(453,033.19)</b>

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	November 2014	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	5,013,475.54									-				
5	Day Ahead Non-Asset Energy	55500-0027	(2,868,229.76)									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	471,963.84									-				
	Excessive Energy Amount	55500-0066	23,437.70									-				
	Non-Excessive Energy Amount	55500-0069	482,384.68									-				
22	Real Time Non-Asset Energy	55500-0043	(142,338.87)									-				
<b>Subtotal</b>			<b>2,980,693.14</b>	<b>729,867</b>	<b>3,324,393.14</b>			<b>142,710</b>	<b>633,217.74</b>			<b>3,957,610.88</b>	<b>10,181</b>			
<b>Day Ahead and Real Time Energy Loss</b>																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	748,119.59		524,182.77		-		99,844.34		-	624,027.11		-		(3,343.90)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	210,602.01		146,831.72		-		27,967.95		-	174,799.67		-		(788.01)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(177,651.34)		-		(124,474.45)		-		(23,709.42)	(148,183.86)		-		-
14	Real Time Distribution of Losses	55500-0041	(515,725.12)		-		(359,563.55)		-		(68,488.30)	(428,051.85)		-		-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>265,345.14</b>	<b>729,867</b>	<b>671,014.49</b>	<b>729,867</b>	<b>(484,038.00)</b>	<b>142,710</b>	<b>127,812.28</b>	<b>142,710</b>	<b>(92,197.71)</b>	<b>222,591.06</b>	<b>10,181</b>	<b>-</b>	<b>10,181</b>	<b>(4,131.91)</b>
<b>Virtual Energy</b>																
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-		-		-
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>-</b>	<b>729,867</b>	<b>-</b>	<b>729,867</b>	<b>-</b>	<b>142,710</b>	<b>-</b>	<b>142,710</b>	<b>-</b>	<b>-</b>	<b>10,181</b>	<b>-</b>	<b>10,181</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	163,669.73		114,110.54		-		21,735.34		-	135,845.88		-		(612.40)
19	Real Time Market Administration (Schedule 17)	55500-0036	14,980.76		10,444.59		-		1,989.44		-	12,434.03		-		(56.05)
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,208.50		4,328.57		-		824.49		-	5,153.06		-		(23.23)
<b>Subtotal</b>			<b>184,858.99</b>	<b>729,867</b>	<b>128,883.69</b>	<b>729,867</b>	<b>-</b>	<b>142,710</b>	<b>24,549.27</b>	<b>142,710</b>	<b>-</b>	<b>153,432.96</b>	<b>10,181</b>	<b>-</b>	<b>10,181</b>	<b>(691.68)</b>

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	November 2014	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	21,922.70		15,360.51		-		2,925.81		-	18,286.33		-		(97.99)
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(38,283.05)		-		(26,823.68)		-		(5,109.27)	(31,932.95)		-		-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	257,177.26		179,303.99		-		34,153.14		-	213,457.13		-		(962.28)
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-		-		-		-		-	-		-		-
	Auction Revenue Rights Transaction Amount	55500-0058	(567,228.70)		-		(395,471.85)		-		(75,327.97)	(470,799.82)		-		-
	Financial Transmission Rights Annual Transaction Amount	55500-0059	560,001.63		390,433.14		-		74,368.22		-	464,801.35		-		(2,095.35)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	29,224.06		20,375.01		-		3,880.96		-	24,255.97		-		(109.35)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(53,964.84)		-		(37,624.29)		-		(7,166.53)	(44,790.82)		-		-
28	Financial Transmission Rights Hourly Allocation	55500-0032	(267,165.25)		-		(186,267.61)		-		(35,479.55)	(221,747.16)		-		-
30	Financial Transmission Rights Monthly Allocation	55500-0033	(5,705.87)		-		(3,978.13)		-		(757.74)	(4,735.87)		-		-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(43,293.03)		-		(30,183.90)		-		(5,749.31)	(35,933.21)		-		-
	FTR Guarantee Uplift Amount	55500-0055	49,645.29		34,612.70		-		6,592.89		-	41,205.59		-		(185.76)
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	2,617.04		1,824.60		-		347.54		-	2,172.14		-		(9.79)
31	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>(55,052.76)</b>	<b>729,867</b>	<b>641,909.95</b>	<b>729,867</b>	<b>(680,349.46)</b>	<b>142,710</b>	<b>122,268.56</b>	<b>142,710</b>	<b>(129,590.37)</b>	<b>(45,761.32)</b>	<b>10,181</b>	<b>-</b>	<b>10,181</b>	<b>(3,460.51)</b>
<b>RSG &amp; Make Whole Payments</b>																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	34,129.97		23,795.42		-		4,532.46		-	28,327.88		-		(127.70)
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	3,646.75		2,542.51		-		484.29		-	3,026.80		-		(13.64)
	Real Time Price Volatility Make Whole Payment	55500-0057	(30,741.02)		-		(21,432.64)		-		(4,082.41)	(25,515.05)		-		-
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	50,450.85		35,174.33		-		6,699.87		-	41,874.21		-		(188.77)
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>57,486.55</b>	<b>729,867</b>	<b>61,512.26</b>	<b>729,867</b>	<b>(21,432.64)</b>	<b>142,710</b>	<b>11,716.62</b>	<b>142,710</b>	<b>(4,082.41)</b>	<b>47,713.84</b>	<b>10,181</b>	<b>-</b>	<b>10,181</b>	<b>(330.12)</b>
<b>RNU &amp; Misc Charges</b>																
20	Real Time Miscellaneous	55500-0042	(318.58)		-		(222.11)		-		(42.31)	(264.42)		-		-
21	Real Time Net Inadvertent Distribution	55500-0044	(6,987.68)		-		(4,871.81)		-		(927.96)	(5,799.77)		-		-
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	384,322.67		267,949.77		-		51,038.05		-	318,987.82		-		(1,438.01)
26	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>377,016.41</b>	<b>729,867</b>	<b>267,949.77</b>	<b>729,867</b>	<b>(5,093.92)</b>	<b>142,710</b>	<b>51,038.05</b>	<b>142,710</b>	<b>(970.27)</b>	<b>312,923.62</b>	<b>10,181</b>	<b>-</b>	<b>10,181</b>	<b>(1,438.01)</b>

MINNESOTA POWER		Account	November 2014	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
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	-								-					
<b>Subtotal</b>			-	<b>729,867</b>	-	<b>729,867</b>	-	<b>142,710</b>	-	<b>142,710</b>	-	-	<b>10,181</b>	-	<b>10,181</b>	-
<b>ASM Charge Types (12 Other)</b>																
	Day Ahead Regulation Amount	55500-0062	(24,539.30)	-		<b>(17,108.80)</b>		-		<b>(3,258.82)</b>	(20,367.62)		-		-	
	Day Ahead Spinning Reserve Amount	55500-0063	(26,670.15)	-		<b>(18,594.43)</b>		-		<b>(3,541.80)</b>	(22,136.22)		-		-	
	Day Ahead Supplemental Reserve Amount	55500-0064	12.88	<b>8.98</b>	-			<b>1.71</b>	-		10.69		-		<b>(0.05)</b>	
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	-	-			-	-		-		-		-	
	Net Regulation Adjustment Amount	55500-0068	95.48	<b>66.57</b>	-			<b>12.68</b>	-		79.25		-		<b>(0.36)</b>	
	Real Time Regulation Amount	55500-0070	236.93	<b>165.19</b>	-			<b>31.46</b>	-		196.65		-		<b>(0.89)</b>	
	Regulation Reserve Cost Distribution Amount	55500-0071	39,074.38	<b>27,242.66</b>	-			<b>5,189.08</b>	-		32,431.74		-		<b>(146.20)</b>	
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	8,030.89	<b>5,599.14</b>	-			<b>1,066.50</b>	-		6,665.64		-		<b>(30.05)</b>	
	Real Time Spinning Reserve Amount	55500-0072	78.81	<b>54.95</b>	-			<b>10.47</b>	-		65.41		-		<b>(0.29)</b>	
	Spinning Reserve Cost Distribution Amount	55500-0073	35,603.33	<b>24,822.64</b>	-			<b>4,728.12</b>	-		29,550.76		-		<b>(133.22)</b>	
	Real Time Supplemental Reserve Amount	55500-0074	(22.28)	-	<b>(15.53)</b>			-	<b>(2.96)</b>		(18.49)		-		-	
	Supplemental Reserve Cost Distribution Amount	55500-0075	9,177.67	<b>6,398.67</b>	-			<b>1,218.79</b>	-		7,617.47		-		<b>(34.34)</b>	
<b>Subtotal</b>			<b>41,078.64</b>	<b>729,867</b>	<b>64,358.79</b>	-	<b>(35,718.76)</b>	<b>142,710</b>	<b>12,258.82</b>	-	<b>(6,803.57)</b>	<b>34,095.27</b>	-	-	-	<b>(345.40)</b>
<b>Grand Total</b>			<b>3,851,426.10</b>	<b>729,867</b>	<b>5,160,022.09</b>	<b>729,867</b>	<b>(1,226,632.78)</b>	<b>142,710</b>	<b>982,861.35</b>	<b>142,710</b>	<b>(233,644.34)</b>	<b>4,682,606.31</b>	<b>10,181</b>	-	<b>10,181</b>	<b>(10,397.63)</b>

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

2/ Accounts 5551-0051 through 5551-0053 are not recovered through the FPE

3/ Accounts 5551-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity

NOTE:

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

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

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



MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	November 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales						
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue			
			<b>Day Ahead and Real Time Energy</b>																		
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	5,013,475.54																			
Day Ahead Non-Asset Energy	55500-0027	(2,868,229.76)																			
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	471,963.84																			
Excessive Energy Amount	55500-0066	23,437.70																			
Non-Excessive Energy Amount	55500-0069	482,384.68																			
Real Time Non-Asset Energy	55500-0043	(142,338.87)																			
<b>Subtotal</b>		<b>2,980,693.14</b>	<b>54,651</b>							<b>47,537</b>						<b>212,325</b>					
<b>Day Ahead and Real Time Energy Loss</b>																					
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	748,119.59											(15,613.07)			143,049.46					
Day Ahead Financial Bilateral Transaction Loss	55500-0022	210,602.01											(3,679.29)			40,269.64					
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(177,651.34)										4,501.60					(33,969.07)				
Real Time Distribution of Losses	55500-0041	(515,725.12)										10,939.57					(98,612.84)				
Real Time Financial Bilateral Transaction Loss	55500-0038	-																			
<b>Subtotal</b>		<b>265,345.14</b>	<b>54,651</b>			<b>-</b>	<b>54,651</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>47,537</b>	<b>15,441.17</b>	<b>47,537</b>	<b>(19,292.36)</b>	<b>212,325</b>	<b>183,319.09</b>	<b>212,325</b>	<b>(132,581.91)</b>
<b>Virtual Energy</b>																					
Day Ahead Virtual Energy	55500-0030	-																			
Real Time Virtual Energy	55500-0049	-																			
<b>Subtotal</b>		<b>-</b>	<b>54,651</b>			<b>-</b>	<b>54,651</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>47,537</b>	<b>-</b>	<b>47,537</b>	<b>-</b>	<b>212,325</b>	<b>-</b>	<b>212,325</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																					
Day Ahead Market Administration (Schedule 17)	55500-0020	163,669.73											(2,859.37)			31,295.62					
Real Time Market Administration (Schedule 17)	55500-0036	14,980.76											(261.72)			2,864.50					
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,208.50											(108.46)			1,187.14					
<b>Subtotal</b>		<b>184,858.99</b>	<b>54,651</b>			<b>-</b>	<b>54,651</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>47,537</b>	<b>-</b>	<b>47,537</b>	<b>(3,229.55)</b>	<b>212,325</b>	<b>35,347.26</b>	<b>212,325</b>	<b>-</b>

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	November 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																		
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	21,922.70																
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(38,283.05)									970.07							(7,320.18)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	257,177.26																
Real Time Financial Bilateral Transaction Congestion	55500-0037	-																
Auction Revenue Rights Transaction Amount	55500-0058	(567,228.70)									12,032.07							(108,460.95)
Financial Transmission Rights Annual Transaction Amount	55500-0059	560,001.63																
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	29,224.06																
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(53,964.84)									1,144.70							(10,318.73)
Financial Transmission Rights Hourly Allocation	55500-0032	(267,165.25)									5,667.11							(51,085.21)
Financial Transmission Rights Monthly Allocation	55500-0033	(5,705.87)									121.03							(1,091.03)
Financial Transmission Rights Yearly Allocation	55500-0035	-																
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(43,293.03)									918.33							(8,278.15)
FTR Guarantee Uplift Amount	55500-0055	49,645.29																
Financial Transmission Rights Monthly Transaction Amount	55500-0056	2,617.04																
Financial Transmission Rights Transaction	55500-0034	-																
<b>Subtotal</b>		<b>(55,052.76)</b>	<b>54,651</b>	<b>-</b>	<b>54,651</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>47,537</b>	<b>20,853.32</b>	<b>47,537</b>	<b>(16,157.51)</b>	<b>212,325</b>	<b>176,027.49</b>	<b>212,325</b>	<b>(186,554.24)</b>	
<b>RSG &amp; Make Whole Payments</b>																		
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	34,129.97																
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	3,646.75																
Real Time Price Volatility Make Whole Payment	55500-0057	(30,741.02)									652.08							(5,878.05)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	50,450.85																
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-																
<b>Subtotal</b>		<b>57,486.55</b>	<b>54,651</b>	<b>-</b>	<b>54,651</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>47,537</b>	<b>652.08</b>	<b>47,537</b>	<b>(1,541.37)</b>	<b>212,325</b>	<b>16,870.17</b>	<b>212,325</b>	<b>(5,878.05)</b>	
<b>RNU &amp; Misc Charges</b>																		
Real Time Miscellaneous	55500-0042	(318.58)									6.76							(60.92)
Real Time Net Inadvertent Distribution	55500-0044	(6,987.68)									148.22							(1,336.13)
Real Time Revenue Neutrality Uplift Amount	55500-0045	384,322.67																
Real Time Uninstructed Deviation	55500-0048	-																
<b>Subtotal</b>		<b>377,016.41</b>	<b>54,651</b>	<b>-</b>	<b>54,651</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>47,537</b>	<b>154.98</b>	<b>47,537</b>	<b>(6,714.25)</b>	<b>212,325</b>	<b>73,487.11</b>	<b>212,325</b>	<b>(1,397.04)</b>	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Account Number	November 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales								
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue					
<b>Grandfathered Charge Types</b>																						
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	-																				
<b>Subtotal</b>		-	<b>54,651</b>	-	<b>54,651</b>	-		-		-		-	<b>47,537</b>	-	<b>47,537</b>	-	<b>212,325</b>	-	<b>212,325</b>	-		
<b>ASM Charge Types (12 Other)</b>																						
Day Ahead Regulation Amount	55500-0062	(24,539.30)											<b>520.53</b>		-						<b>(4,692.21)</b>	
Day Ahead Spinning Reserve Amount	55500-0063	(26,670.15)											<b>565.73</b>		-						<b>(5,099.65)</b>	
Day Ahead Supplemental Reserve Amount	55500-0064	12.88											-		<b>(0.23)</b>				<b>2.46</b>		-	
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-											-		-						-	
Net Regulation Adjustment Amount	55500-0068	95.48											-		<b>(1.67)</b>				<b>18.26</b>		-	
Real Time Regulation Amount	55500-0070	236.93											-		<b>(4.14)</b>				<b>45.30</b>		-	
Regulation Reserve Cost Distribution Amount	55500-0071	39,074.38											-		<b>(682.64)</b>				<b>7,471.49</b>		-	
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	8,030.89											-		<b>(140.30)</b>				<b>1,535.60</b>		-	
Real Time Spinning Reserve Amount	55500-0072	78.81											-		<b>(1.38)</b>				<b>15.07</b>		-	
Spinning Reserve Cost Distribution Amount	55500-0073	35,603.33											-		<b>(622.00)</b>				<b>6,807.78</b>		-	
Real Time Supplemental Reserve Amount	55500-0074	(22.28)											<b>0.47</b>		-				-		<b>(4.26)</b>	
Supplemental Reserve Cost Distribution Amount	55500-0075	9,177.67											-		<b>(160.34)</b>				<b>1,754.88</b>		-	
<b>Subtotal</b>		<b>41,078.64</b>	-	-	-	-	-	-	-	-	-	-	<b>1,086.73</b>	-	<b>(1,612.69)</b>	-	<b>17,650.85</b>	-	<b>(9,796.12)</b>			
<b>Grand Total</b>		<b>3,851,426.10</b>	<b>54,651</b>	-	<b>54,651</b>	-	-	-	-	-	-	-	<b>47,537</b>	<b>38,188.28</b>	<b>47,537</b>	<b>(48,547.73)</b>	<b>212,325</b>	<b>502,701.98</b>	<b>212,325</b>	<b>(336,207.37)</b>		

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	December 2014	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	2,860,994.69									-				
5	Day Ahead Non-Asset Energy	55500-0027	(1,428,202.25)									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	1,214,570.72									-				
	Excessive Energy Amount	55500-0066	123,902.99									-				
	Non-Excessive Energy Amount	55500-0069	(205,806.59)									-				
22	Real Time Non-Asset Energy	55500-0043	(110,094.97)									-				
<b>Subtotal</b>			<b>2,455,364.59</b>	<b>790,135</b>	<b>2,648,429.46</b>			<b>152,594</b>	<b>504,462.75</b>			<b>3,152,892.21</b>	<b>14,351</b>			
<b>Day Ahead and Real Time Energy Loss</b>																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,475,530.68		1,020,904.88		-		194,458.07		-	1,215,362.96		-		(1,837.52)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	106,623.12		73,442.01		-		13,988.95		-	87,430.96		-		(116.49)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(364,120.56)		-		(251,931.36)		-		(47,986.93)	(299,918.29)		-		-
14	Real Time Distribution of Losses	55500-0041	(431,611.55)		-		(297,294.04)		-		(56,627.44)	(353,921.47)		-		-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>786,421.69</b>	<b>790,135</b>	<b>1,094,346.89</b>	<b>790,135</b>	<b>(549,225.40)</b>	<b>152,594</b>	<b>208,447.03</b>	<b>152,594</b>	<b>(104,614.36)</b>	<b>648,954.15</b>	<b>14,351</b>	<b>-</b>	<b>14,351</b>	<b>(1,954.01)</b>
<b>Virtual Energy</b>																
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-		-		-
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>-</b>	<b>790,135</b>	<b>-</b>	<b>790,135</b>	<b>-</b>	<b>152,594</b>	<b>-</b>	<b>152,594</b>	<b>-</b>	<b>-</b>	<b>14,351</b>	<b>-</b>	<b>14,351</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	143,729.47		99,000.86		-		18,857.31		-	117,858.17		-		(157.03)
19	Real Time Market Administration (Schedule 17)	55500-0036	8,055.87		5,548.88		-		1,056.93		-	6,605.81		-		(8.80)
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,786.02		4,674.21		-		890.33		-	5,564.54		-		(7.41)
<b>Subtotal</b>			<b>158,571.36</b>	<b>790,135</b>	<b>109,223.95</b>	<b>790,135</b>	<b>-</b>	<b>152,594</b>	<b>20,804.56</b>	<b>152,594</b>	<b>-</b>	<b>130,028.52</b>	<b>14,351</b>	<b>-</b>	<b>14,351</b>	<b>(173.25)</b>

MINNESOTA POWER		Account	December 2014		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation								
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue					
<b>Congestion, FTRs &amp; ARRs</b>																						
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	181,232.85			125,393.19		-		23,884.42		-	149,277.61		-		(225.69)					
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(121,580.23)			-		(84,120.14)		-		(16,022.88)	(100,143.03)		-		-					
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	181,109.88			124,748.49		-		23,761.62		-	148,510.10		-		(197.87)					
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-			-		-		-		-	-		-		-					
	Auction Revenue Rights Transaction Amount	55500-0058	(665,271.99)			-		(458,239.35)		-		(87,283.69)	(545,523.03)		-		-					
	Financial Transmission Rights Annual Transaction Amount	55500-0059	666,236.20			458,903.49		-		87,410.19		-	546,313.68		-		(727.90)					
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	39,066.68			26,909.13		-		5,125.55		-	32,034.68		-		(42.68)					
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(61,622.67)			-		(42,445.70)		-		(8,084.89)	(50,530.59)		-		-					
28	Financial Transmission Rights Hourly Allocation	55500-0032	(170,687.94)			-		(117,569.85)		-		(22,394.26)	(139,964.11)		-		-					
30	Financial Transmission Rights Monthly Allocation	55500-0033	(10,719.38)			-		(7,383.51)		-		(1,406.38)	(8,789.89)		-		-					
32	Financial Transmission Rights Yearly Allocation	55500-0035	-			-		-		-		-	-		-		-					
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	4,720.71			3,251.63		-		619.36		-	3,870.98		-		(5.16)					
	FTR Guarantee Uplift Amount	55500-0055	10,138.32			6,983.27		-		1,330.15		-	8,313.42		-		(11.08)					
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-			-		-		-		-	-		-		-					
31	Financial Transmission Rights Transaction	55500-0034	-			-		-		-		-	-		-		-					
<b>Subtotal</b>			<b>52,622.43</b>		<b>790,135</b>	<b>746,189.20</b>		<b>790,135</b>		<b>152,594</b>		<b>142,131.28</b>	<b>152,594</b>		<b>(135,192.10)</b>		<b>43,369.83</b>	<b>14,351</b>		<b>14,351</b>		<b>(1,210.38)</b>
<b>RSG &amp; Make Whole Payments</b>																						
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	43,599.30			30,031.20		-		5,720.23		-	35,751.43		-		(47.63)					
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-			-		-		-		-	-		-		-					
	Real Time Price Volatility Make Whole Payment	55500-0057	(17,597.93)			-		(12,121.45)		-		(2,308.85)	(14,430.30)		-		-					
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	16,826.51			11,590.10		-		2,207.64		-	13,797.74		-		(18.38)					
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-			-		-		-		-	-		-		-					
<b>Subtotal</b>			<b>42,827.88</b>		<b>790,135</b>	<b>41,621.30</b>		<b>790,135</b>		<b>152,594</b>		<b>7,927.87</b>	<b>152,594</b>		<b>(2,308.85)</b>		<b>35,118.86</b>	<b>14,351</b>		<b>14,351</b>		<b>(66.02)</b>
<b>RNU &amp; Misc Charges</b>																						
20	Real Time Miscellaneous	55500-0042	(26,358.36)			-		(18,155.64)		-		(3,458.22)	(21,613.86)		-		-					
21	Real Time Net Inadvertent Distribution	55500-0044	503.46			346.78		-		66.05		-	412.84		-		(0.55)					
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	170,102.97			117,166.93		-		22,317.51		-	139,484.44		-		(185.85)					
26	Real Time Uninstructed Deviation	55500-0048	-			-		-		-		-	-		-		-					
<b>Subtotal</b>			<b>144,248.07</b>		<b>790,135</b>	<b>117,513.71</b>		<b>790,135</b>		<b>152,594</b>		<b>22,383.56</b>	<b>152,594</b>		<b>(3,458.22)</b>		<b>118,283.42</b>	<b>14,351</b>		<b>14,351</b>		<b>(186.40)</b>

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	December 2014	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																
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	-									-				
<b>Subtotal</b>			-	<b>790,135</b>	-	<b>790,135</b>	-	<b>152,594</b>	-	<b>152,594</b>	-	-	<b>14,351</b>	-	<b>14,351</b>	-
<b>ASM Charge Types (12 Other)</b>																
	Day Ahead Regulation Amount	55500-0062	(56,479.26)		-		<b>(38,902.91)</b>		-		<b>(7,410.08)</b>	(46,312.99)		-		-
	Day Ahead Spinning Reserve Amount	55500-0063	(22,005.69)		-		<b>(15,157.52)</b>		-		<b>(2,887.15)</b>	(18,044.67)		-		-
	Day Ahead Supplemental Reserve Amount	55500-0064	-		-		-		-		-	-		-		-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-		-		-		-		-	-		-		-
	Net Regulation Adjustment Amount	55500-0068	2,145.08		<b>1,477.53</b>		-		<b>281.43</b>		-	1,758.97		-		<b>(2.34)</b>
	Real Time Regulation Amount	55500-0070	2,311.50		<b>1,592.16</b>		-		<b>303.27</b>		-	1,895.43		-		<b>(2.53)</b>
	Regulation Reserve Cost Distribution Amount	55500-0071	25,543.05		<b>17,594.05</b>		-		<b>3,351.25</b>		-	20,945.30		-		<b>(27.91)</b>
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	10,008.90		<b>6,894.13</b>		-		<b>1,313.17</b>		-	8,207.30		-		<b>(10.94)</b>
	Real Time Spinning Reserve Amount	55500-0072	3,686.06		<b>2,538.96</b>		-		<b>483.61</b>		-	3,022.57		-		<b>(4.03)</b>
	Spinning Reserve Cost Distribution Amount	55500-0073	17,434.20		<b>12,008.68</b>		-		<b>2,287.37</b>		-	14,296.04		-		<b>(19.05)</b>
	Real Time Supplemental Reserve Amount	55500-0074	4.70		<b>3.24</b>		-		<b>0.62</b>		-	3.85		-		<b>(0.01)</b>
	Supplemental Reserve Cost Distribution Amount	55500-0075	6,545.03		<b>4,508.22</b>		-		<b>858.71</b>		-	5,366.92		-		<b>(7.15)</b>
<b>Subtotal</b>			<b>(10,806.43)</b>	<b>790,135</b>	<b>46,616.96</b>	-	<b>(54,060.43)</b>	<b>152,594</b>	<b>8,879.42</b>	-	<b>(10,297.23)</b>	<b>(8,861.27)</b>	-	-	-	<b>(73.94)</b>
<b>Grand Total</b>			<b>3,629,249.59</b>	<b>790,135</b>	<b>4,803,941.47</b>	<b>790,135</b>	<b>(1,343,321.47)</b>	<b>152,594</b>	<b>915,036.47</b>	<b>152,594</b>	<b>(255,870.76)</b>	<b>4,119,785.71</b>	<b>14,351</b>	-	<b>14,351</b>	<b>(3,664.00)</b>

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

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

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

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



MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	December 2014	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																		
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	181,232.85																
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(121,580.23)																
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	181,109.88																
Real Time Financial Bilateral Transaction Congestion	55500-0037	-																
Auction Revenue Rights Transaction Amount	55500-0058	(665,271.99)																
Financial Transmission Rights Annual Transaction Amount	55500-0059	666,236.20																
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	39,066.68																
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(61,622.67)																
Financial Transmission Rights Hourly Allocation	55500-0032	(170,687.94)																
Financial Transmission Rights Monthly Allocation	55500-0033	(10,719.38)																
Financial Transmission Rights Yearly Allocation	55500-0035	-																
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	4,720.71																
FTR Guarantee Uplift Amount	55500-0055	10,138.32																
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-																
Financial Transmission Rights Transaction	55500-0034	-																
<b>Subtotal</b>		<b>52,622.43</b>	<b>44,589</b>	<b>-</b>	<b>44,589</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>62,822</b>	<b>6,150.58</b>	<b>62,822</b>	<b>(5,298.38)</b>	<b>219,734</b>	<b>200,692.92</b>	<b>219,734</b>	<b>(191,082.14)</b>	
<b>RSG &amp; Make Whole Payments</b>																		
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	43,599.30																
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-																
Real Time Price Volatility Make Whole Payment	55500-0057	(17,597.93)																
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	16,826.51																
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-																
<b>Subtotal</b>		<b>42,827.88</b>	<b>44,589</b>	<b>-</b>	<b>44,589</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>62,822</b>	<b>103.39</b>	<b>62,822</b>	<b>(288.99)</b>	<b>219,734</b>	<b>11,231.66</b>	<b>219,734</b>	<b>(3,271.02)</b>	
<b>RNU &amp; Misc Charges</b>																		
Real Time Miscellaneous	55500-0042	(26,358.36)																
Real Time Net Inadvertent Distribution	55500-0044	503.46																
Real Time Revenue Neutrality Uplift Amount	55500-0045	170,102.97																
Real Time Uninstructed Deviation	55500-0048	-																
<b>Subtotal</b>		<b>144,248.07</b>	<b>44,589</b>	<b>-</b>	<b>44,589</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>62,822</b>	<b>154.86</b>	<b>62,822</b>	<b>(815.94)</b>	<b>219,734</b>	<b>31,711.49</b>	<b>219,734</b>	<b>(4,899.36)</b>	



MINNESOTA POWER		Account	December 2014				MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION		Number	Mwh		Cost	Mwh		Revenue	Mwh		Cost	Mwh		Revenue	Mwh		Cost	Mwh		Revenue		
<b>Grandfathered Charge Types</b>																						
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	-																				
<b>Subtotal</b>		-	<b>44,589</b>	-	<b>44,589</b>	-	-	-	-	-	-	-	<b>62,822</b>	-	<b>62,822</b>	-	<b>219,734</b>	-	<b>219,734</b>	-		
<b>ASM Charge Types (12 Other)</b>																						
Day Ahead Regulation Amount	55500-0062	(56,479.26)												<b>331.82</b>		-				<b>(10,498.09)</b>		
Day Ahead Spinning Reserve Amount	55500-0063	(22,005.69)												<b>129.29</b>		-				<b>(4,090.31)</b>		
Day Ahead Supplemental Reserve Amount	55500-0064	-												-		-				-		
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-												-		-				-		
Net Regulation Adjustment Amount	55500-0068	2,145.08												-		<b>(10.26)</b>			<b>398.72</b>	-		
Real Time Regulation Amount	55500-0070	2,311.50												-		<b>(11.05)</b>			<b>429.65</b>	-		
Regulation Reserve Cost Distribution Amount	55500-0071	25,543.05												-		<b>(122.16)</b>			<b>4,747.82</b>	-		
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	10,008.90												-		<b>(47.87)</b>			<b>1,860.41</b>	-		
Real Time Spinning Reserve Amount	55500-0072	3,686.06												-		<b>(17.63)</b>			<b>685.15</b>	-		
Spinning Reserve Cost Distribution Amount	55500-0073	17,434.20												-		<b>(83.38)</b>			<b>3,240.58</b>	-		
Real Time Supplemental Reserve Amount	55500-0074	4.70												-		<b>(0.02)</b>			<b>0.87</b>	-		
Supplemental Reserve Cost Distribution Amount	55500-0075	6,545.03												-		<b>(31.30)</b>			<b>1,216.56</b>	-		
<b>Subtotal</b>		<b>(10,806.43)</b>	-	-	-	-	-	-	-	-	-	-	-	<b>461.11</b>	-	<b>(323.68)</b>	-	<b>12,579.75</b>	-	<b>(14,588.40)</b>		
<b>Grand Total</b>		<b>3,629,249.59</b>	<b>44,589</b>	-	<b>44,589</b>	-	-	-	-	-	-	-	<b>62,822</b>	<b>11,844.12</b>	<b>62,822</b>	<b>(16,038.96)</b>	<b>219,734</b>	<b>575,557.78</b>	<b>219,734</b>	<b>(360,707.46)</b>		

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	January 2015	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	4,853,350.95									-				
5	Day Ahead Non-Asset Energy	55500-0027	(1,128,665.60)									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(2,479,329.88)									-				
	Excessive Energy Amount	55500-0066	92,503.29									-				
	Non-Excessive Energy Amount	55500-0069	26,811.75									-				
22	Real Time Non-Asset Energy	55500-0043	(256,674.77)									-				
<b>Subtotal</b>			<b>1,107,995.74</b>	<b>805,181</b>	<b>1,965,717.24</b>			<b>157,689</b>	<b>374,422.33</b>			<b>2,340,139.57</b>	<b>32,801</b>			
<b>Day Ahead and Real Time Energy Loss</b>																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,374,806.56		942,232.11		-		179,472.78		-	1,121,704.89		-		(582.77)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	137,904.62		94,988.70		-		18,093.09		-	113,081.79		-		(135.52)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(112,768.21)		-		(77,286.38)		-		(14,721.22)	(92,007.60)		-		-
14	Real Time Distribution of Losses	55500-0041	(446,516.64)		-		(307,560.66)		-		(58,582.98)	(366,143.64)		-		-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	(787.92)		-		(542.72)		-		(103.38)	(646.09)		-		-
<b>Subtotal</b>			<b>952,638.42</b>	<b>805,181</b>	<b>1,037,220.81</b>	<b>805,181</b>	<b>(385,389.76)</b>	<b>157,689</b>	<b>197,565.87</b>	<b>157,689</b>	<b>(73,407.57)</b>	<b>775,989.34</b>	<b>32,801</b>	<b>-</b>	<b>32,801</b>	<b>(718.29)</b>
<b>Virtual Energy</b>																
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-		-		-
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>-</b>	<b>805,181</b>	<b>-</b>	<b>805,181</b>	<b>-</b>	<b>157,689</b>	<b>-</b>	<b>157,689</b>	<b>-</b>	<b>-</b>	<b>32,801</b>	<b>-</b>	<b>32,801</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	135,316.35		93,205.90		-		17,753.51		-	110,959.41		-		(132.97)
19	Real Time Market Administration (Schedule 17)	55500-0036	9,328.03		6,425.15		-		1,223.84		-	7,648.98		-		(9.17)
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,765.88		4,660.34		-		887.68		-	5,548.02		-		(6.65)
<b>Subtotal</b>			<b>151,410.26</b>	<b>805,181</b>	<b>104,291.39</b>	<b>805,181</b>	<b>-</b>	<b>157,689</b>	<b>19,865.03</b>	<b>157,689</b>	<b>-</b>	<b>124,156.41</b>	<b>32,801</b>	<b>-</b>	<b>32,801</b>	<b>(148.79)</b>

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	January 2015	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	70,818.97		48,536.21		-		9,244.99		-	57,781.21		-		(30.02)
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(81,612.80)		-		(55,933.83)		-		(10,654.06)	(66,587.90)		-		-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	282,170.75		194,359.21		-		37,020.80		-	231,380.02		-		(277.28)
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	(1,491.88)		-		(1,027.61)		-		(195.73)	(1,223.34)		-		-
	Auction Revenue Rights Transaction Amount	55500-0058	(665,271.99)		-		(458,239.35)		-		(87,283.69)	(545,523.03)		-		-
	Financial Transmission Rights Annual Transaction Amount	55500-0059	666,236.20		458,903.49		-		87,410.19		-	546,313.68		-		(654.70)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	39,067.46		26,909.67		-		5,125.65		-	32,035.32		-		(38.39)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(39,170.23)		-		(26,980.45)		-		(5,139.13)	(32,119.59)		-		-
28	Financial Transmission Rights Hourly Allocation	55500-0032	12,940.26		8,913.25		-		1,697.76		-	10,611.01		-		(12.72)
30	Financial Transmission Rights Monthly Allocation	55500-0033	(2,395.25)		-		(1,649.85)		-		(314.26)	(1,964.11)		-		-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-		-		-		-		-	-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(1,295.32)		-		(892.22)		-		(169.95)	(1,062.16)		-		-
	FTR Guarantee Uplift Amount	55500-0055	5,761.86		3,968.77		-		755.96		-	4,724.73		-		(5.66)
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	17,808.80		12,266.70		-		2,336.51		-	14,603.22		-		(17.50)
31	Financial Transmission Rights Transaction	55500-0034	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>303,566.83</b>	<b>805,181</b>	<b>753,857.31</b>	<b>805,181</b>	<b>(544,723.31)</b>	<b>157,689</b>	<b>143,591.87</b>	<b>157,689</b>	<b>(103,756.82)</b>	<b>248,969.05</b>	<b>32,801</b>	<b>-</b>	<b>32,801</b>	<b>(1,036.27)</b>
<b>RSG &amp; Make Whole Payments</b>																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	34,360.91		23,667.79		-		4,508.15		-	28,175.95		-		(33.77)
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-		-		-		-		-	-		-		-
	Real Time Price Volatility Make Whole Payment	55500-0057	(23,770.50)		-		(16,373.12)		-		(3,118.69)	(19,491.81)		-		-
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	28,372.81		19,543.19		-		3,722.51		-	23,265.70		-		(27.88)
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>38,963.22</b>	<b>805,181</b>	<b>43,210.99</b>	<b>805,181</b>	<b>(16,373.12)</b>	<b>157,689</b>	<b>8,230.66</b>	<b>157,689</b>	<b>(3,118.69)</b>	<b>31,949.84</b>	<b>32,801</b>	<b>-</b>	<b>32,801</b>	<b>(61.65)</b>
<b>RNU &amp; Misc Charges</b>																
20	Real Time Miscellaneous	55500-0042	(69,506.24)		-		(47,875.90)		-		(9,119.22)	(56,995.12)		-		-
21	Real Time Net Inadvertent Distribution	55500-0044	(20,070.53)		-		(13,824.58)		-		(2,633.25)	(16,457.83)		-		-
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	51,103.79		35,200.29		-		6,704.82		-	41,905.11		-		(50.22)
26	Real Time Uninstructed Deviation	55500-0048	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>(38,472.98)</b>	<b>805,181</b>	<b>35,200.29</b>	<b>805,181</b>	<b>(61,700.48)</b>	<b>157,689</b>	<b>6,704.82</b>	<b>157,689</b>	<b>(11,752.47)</b>	<b>(31,547.84)</b>	<b>32,801</b>	<b>-</b>	<b>32,801</b>	<b>(50.22)</b>

MINNESOTA POWER		Account	January 2015		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																	
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	-										-				
<b>Subtotal</b>			-		<b>805,181</b>	-	<b>805,181</b>	-	<b>157,689</b>	-	<b>157,689</b>	-	-	<b>32,801</b>	-	<b>32,801</b>	-
<b>ASM Charge Types (12 Other)</b>																	
	Day Ahead Regulation Amount	55500-0062	(37,302.76)			-	(25,694.14)		-		(4,894.12)	(30,588.26)		-			-
	Day Ahead Spinning Reserve Amount	55500-0063	(16,361.57)			-	(11,269.85)		-		(2,146.64)	(13,416.49)		-			-
	Day Ahead Supplemental Reserve Amount	55500-0064	-			-	-		-		-	-		-			-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	52.51			36.17	-		6.89		-	43.06		-			(0.05)
	Net Regulation Adjustment Amount	55500-0068	332.27			228.87	-		43.59		-	272.46		-			(0.33)
	Real Time Regulation Amount	55500-0070	257.47			177.35	-		33.78		-	211.13		-			(0.25)
	Regulation Reserve Cost Distribution Amount	55500-0071	21,224.44			14,619.39	-		2,784.65		-	17,404.04		-			(20.86)
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	7,560.58			5,207.73	-		991.95		-	6,199.68		-			(7.43)
	Real Time Spinning Reserve Amount	55500-0072	(12,665.55)			-	(8,724.03)		-		(1,661.72)	(10,385.75)		-			-
	Spinning Reserve Cost Distribution Amount	55500-0073	17,134.49			11,802.24	-		2,248.05		-	14,050.28		-			(16.84)
	Real Time Supplemental Reserve Amount	55500-0074	-			-	-		-		-	-		-			-
	Supplemental Reserve Cost Distribution Amount	55500-0075	5,250.28			3,616.39	-		688.84		-	4,305.23		-			(5.16)
<b>Subtotal</b>			<b>(14,517.84)</b>		<b>805,181</b>	<b>35,688.13</b>	-	<b>(45,688.02)</b>	<b>157,689</b>	<b>6,797.74</b>	-	<b>(8,702.48)</b>	<b>(11,904.63)</b>	-	-	-	<b>(50.91)</b>
<b>Grand Total</b>			<b>2,501,583.64</b>		<b>805,181</b>	<b>3,975,186.15</b>	<b>805,181</b>	<b>(1,053,874.69)</b>	<b>157,689</b>	<b>757,178.31</b>	<b>157,689</b>	<b>(200,738.04)</b>	<b>3,477,751.74</b>	<b>32,801</b>	-	<b>32,801</b>	<b>(2,066.13)</b>

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

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

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

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

MINNESOTA POWER		Account	January 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																			
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050		4,853,350.95																
Day Ahead Non-Asset Energy	55500-0027		(1,128,665.60)																
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		(2,479,329.88)																
Excessive Energy Amount	55500-0066		92,503.29																
Non-Excessive Energy Amount	55500-0069		26,811.75																
Real Time Non-Asset Energy	55500-0043		(256,674.77)																
<b>Subtotal</b>			<b>1,107,995.74</b>	<b>66,390</b>							<b>53,675</b>							<b>218,051</b>	
<b>Day Ahead and Real Time Energy Loss</b>																			
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		1,374,806.56																
Day Ahead Financial Bilateral Transaction Loss	55500-0022		137,904.62																
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		(112,768.21)																
Real Time Distribution of Losses	55500-0041		(446,516.64)																
Real Time Financial Bilateral Transaction Loss	55500-0038		(787.92)																
<b>Subtotal</b>			<b>952,638.42</b>	<b>66,390</b>		<b>66,390</b>						<b>53,675</b>	<b>1,284.87</b>	<b>53,675</b>	<b>(1,175.40)</b>	<b>218,051</b>	<b>279,818.19</b>	<b>218,051</b>	<b>(102,560.30)</b>
<b>Virtual Energy</b>																			
Day Ahead Virtual Energy	55500-0030		-																
Real Time Virtual Energy	55500-0049		-																
<b>Subtotal</b>			<b>-</b>	<b>66,390</b>		<b>66,390</b>						<b>53,675</b>		<b>53,675</b>		<b>218,051</b>		<b>218,051</b>	
<b>Schedule 16 &amp; 17 1/</b>																			
Day Ahead Market Administration (Schedule 17)	55500-0020		135,316.35																
Real Time Market Administration (Schedule 17)	55500-0036		9,328.03																
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		6,765.88																
<b>Subtotal</b>			<b>151,410.26</b>	<b>66,390</b>		<b>66,390</b>						<b>53,675</b>		<b>53,675</b>	<b>(243.48)</b>	<b>218,051</b>	<b>27,646.11</b>	<b>218,051</b>	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Account Number	January 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
		Congestion, FTRs & ARRs															
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	70,818.97										-	(49.12)		13,116.90		-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(81,612.80)										91.21	-		-		(15,116.11)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	282,170.75										-	(453.75)		51,521.77		-
Real Time Financial Bilateral Transaction Congestion	55500-0037	(1,491.88)										3.87	-		-		(272.40)
Auction Revenue Rights Transaction Amount	55500-0058	(665,271.99)										1,723.54	-		-		(121,472.50)
Financial Transmission Rights Annual Transaction Amount	55500-0059	666,236.20										-	(1,071.34)		121,648.56		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	39,067.46										-	(62.82)		7,133.36		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(39,170.23)										101.48	-		-		(7,152.12)
Financial Transmission Rights Hourly Allocation	55500-0032	12,940.26										-	(20.81)		2,362.77		-
Financial Transmission Rights Monthly Allocation	55500-0033	(2,395.25)										6.21	-		-		(437.35)
Financial Transmission Rights Yearly Allocation	55500-0035	-										-	-		-		-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(1,295.32)										3.36	-		-		(236.51)
FTR Guarantee Uplift Amount	55500-0055	5,761.86										-	(9.27)		1,052.06		-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	17,808.80										-	(28.64)		3,251.72		-
Financial Transmission Rights Transaction	55500-0034	-										-	-		-		-
<b>Subtotal</b>		<b>303,566.83</b>	<b>66,390</b>	<b>-</b>	<b>66,390</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>53,675</b>	<b>1,929.66</b>	<b>53,675</b>	<b>(1,695.75)</b>	<b>218,051</b>	<b>200,087.14</b>	<b>218,051</b>	<b>(144,687.00)</b>
<b>RSG &amp; Make Whole Payments</b>																	
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	34,360.91										-	(55.25)		6,273.98		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-										-	-		-		-
Real Time Price Volatility Make Whole Payment	55500-0057	(23,770.50)										61.58	-		-		(4,340.27)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	28,372.81										-	(45.62)		5,180.61		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-										-	-		-		-
<b>Subtotal</b>		<b>38,963.22</b>	<b>66,390</b>	<b>-</b>	<b>66,390</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>53,675</b>	<b>61.58</b>	<b>53,675</b>	<b>(100.88)</b>	<b>218,051</b>	<b>11,454.60</b>	<b>218,051</b>	<b>(4,340.27)</b>
<b>RNU &amp; Misc Charges</b>																	
Real Time Miscellaneous	55500-0042	(69,506.24)										180.07	-		-		(12,691.20)
Real Time Net Inadvertent Distribution	55500-0044	(20,070.53)										52.00	-		-		(3,664.69)
Real Time Revenue Neutrality Uplift Amount	55500-0045	51,103.79										-	(82.18)		9,331.08		-
Real Time Uninstructed Deviation	55500-0048	-										-	-		-		-
<b>Subtotal</b>		<b>(38,472.98)</b>	<b>66,390</b>	<b>-</b>	<b>66,390</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>53,675</b>	<b>232.07</b>	<b>53,675</b>	<b>(82.18)</b>	<b>218,051</b>	<b>9,331.08</b>	<b>218,051</b>	<b>(16,355.89)</b>

MINNESOTA POWER		Account	January 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																			
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	-														-			-
<b>Subtotal</b>		-	<b>66,390</b>	-	<b>66,390</b>	-	-	-	-	-	<b>53,675</b>	-	<b>53,675</b>	-	<b>218,051</b>	-	<b>218,051</b>	-	
<b>ASM Charge Types (12 Other)</b>																			
Day Ahead Regulation Amount	55500-0062	(37,302.76)									<b>96.64</b>		-			-			<b>(6,811.14)</b>
Day Ahead Spinning Reserve Amount	55500-0063	(16,361.57)									<b>42.39</b>		-			-			<b>(2,987.47)</b>
Day Ahead Supplemental Reserve Amount	55500-0064	-									-		-			-			-
Contingency Reserve Deployment																			
Failure Charge Amount	55500-0065	52.51									-		<b>(0.08)</b>			<b>9.59</b>			-
Net Regulation Adjustment Amount	55500-0068	332.27									-		<b>(0.53)</b>			<b>60.67</b>			-
Real Time Regulation Amount	55500-0070	257.47									-		<b>(0.41)</b>			<b>47.01</b>			-
Regulation Reserve Cost Distribution Amount	55500-0071	21,224.44									-		<b>(34.13)</b>			<b>3,875.39</b>			-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	7,560.58									-		<b>(12.16)</b>			<b>1,380.49</b>			-
Real Time Spinning Reserve Amount	55500-0072	(12,665.55)									<b>32.81</b>		-			-			<b>(2,312.61)</b>
Spinning Reserve Cost Distribution Amount	55500-0073	17,134.49									-		<b>(27.55)</b>			<b>3,128.60</b>			-
Real Time Supplemental Reserve Amount	55500-0074	-									-		-			-			-
Supplemental Reserve Cost Distribution Amount	55500-0075	5,250.28									-		<b>(8.44)</b>			<b>958.65</b>			-
<b>Subtotal</b>		<b>(14,517.84)</b>	-	-	-	-	-	-	-	-	<b>171.84</b>	-	<b>(83.32)</b>	-	<b>9,460.40</b>	-	<b>(12,111.22)</b>		
<b>Grand Total</b>		<b>2,501,583.64</b>	<b>66,390</b>	-	<b>66,390</b>	-	-	-	-	-	<b>53,675</b>	<b>3,680.03</b>	<b>53,675</b>	<b>(3,381.00)</b>	<b>218,051</b>	<b>537,797.52</b>	<b>218,051</b>	<b>(280,054.69)</b>	

MINNESOTA POWER		Account	February 2015		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																	
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	2,550,388.41										-				
5	Day Ahead Non-Asset Energy	55500-0027	(1,401,312.25)										-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	1,661,020.74										-				
	Excessive Energy Amount	55500-0066	22,445.65										-				
	Non-Excessive Energy Amount	55500-0069	70,995.95										-				
22	Real Time Non-Asset Energy	55500-0043	(506,153.98)										-				
<b>Subtotal</b>			<b>2,397,384.52</b>		<b>754,014</b>	<b>2,680,286.80</b>			<b>144,715</b>	<b>510,530.82</b>			<b>3,190,817.62</b>	<b>13,449</b>			
<b>Day Ahead and Real Time Energy Loss</b>																	
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,564,267.18			1,096,752.23	-			208,905.19	-		1,305,657.41	-			(6,949.79)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	141,297.47			98,512.60	-			18,764.30	-		117,276.90	-			(494.45)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(90,769.56)			-	(63,641.12)			-	(12,122.12)		(75,763.24)	-			-
14	Real Time Distribution of Losses	55500-0041	(534,417.95)			-	(372,596.19)			-	(70,970.70)		(443,566.90)	-			-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	177.92			124.05	-			23.63	-		147.67	-			(0.62)
<b>Subtotal</b>			<b>1,080,555.06</b>		<b>754,014</b>	<b>1,195,388.87</b>	<b>754,014</b>	<b>(436,237.32)</b>	<b>144,715</b>	<b>227,693.12</b>	<b>144,715</b>	<b>(83,092.82)</b>	<b>903,751.85</b>	<b>13,449</b>	<b>-</b>	<b>13,449</b>	<b>(7,444.86)</b>
<b>Virtual Energy</b>																	
12	Day Ahead Virtual Energy	55500-0030	-			-	-			-	-		-				
27	Real Time Virtual Energy	55500-0049	-			-	-			-	-		-				
<b>Subtotal</b>			<b>-</b>		<b>754,014</b>	<b>-</b>	<b>754,014</b>	<b>-</b>	<b>144,715</b>	<b>-</b>	<b>144,715</b>	<b>-</b>	<b>-</b>	<b>13,449</b>	<b>-</b>	<b>13,449</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																	
4	Day Ahead Market Administration (Schedule 17)	55500-0020	167,362.64			116,685.23	-			22,225.76	-		138,910.99	-			(585.66)
19	Real Time Market Administration (Schedule 17)	55500-0036	14,467.14			10,086.49	-			1,921.24	-		12,007.73	-			(50.63)
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,251.52			4,358.56	-			830.20	-		5,188.76	-			(21.88)
<b>Subtotal</b>			<b>188,081.30</b>		<b>754,014</b>	<b>131,130.28</b>	<b>754,014</b>	<b>-</b>	<b>144,715</b>	<b>24,977.20</b>	<b>144,715</b>	<b>-</b>	<b>156,107.48</b>	<b>13,449</b>	<b>-</b>	<b>13,449</b>	<b>(658.16)</b>



MINNESOTA POWER		Account	February 2015		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation								
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue					
<b>Congestion, FTRs &amp; ARRs</b>																						
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	19,050.14			13,356.60		-		2,544.11		-	15,900.71		-		(84.64)					
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(113,632.30)			-		(79,670.84)		-		(15,175.40)	(94,846.23)		-		-					
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	575,290.45			401,092.50		-		76,398.57		-	477,491.07		-		(2,013.13)					
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	336.88			234.87		-		44.74		-	279.61		-		(1.18)					
	Auction Revenue Rights Transaction Amount	55500-0058	(665,271.99)			-		(463,827.63)		-		(88,348.12)	(552,175.75)		-		-					
	Financial Transmission Rights Annual Transaction Amount	55500-0059	666,236.20			464,499.88		-		88,476.17		-	552,976.05		-		(2,331.37)					
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	39,067.46			27,237.83		-		5,188.16		-	32,425.99		-		(136.71)					
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(50,988.00)			-		(35,548.83)		-		(6,771.21)	(42,320.04)		-		-					
28	Financial Transmission Rights Hourly Allocation	55500-0032	(67,897.00)			-		(47,337.79)		-		(9,016.72)	(56,354.51)		-		-					
30	Financial Transmission Rights Monthly Allocation	55500-0033	(4,031.10)			-		(2,810.48)		-		(535.33)	(3,345.81)		-		-					
32	Financial Transmission Rights Yearly Allocation	55500-0035	-			-		-		-		-	-		-		-					
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(1,630.93)			-		(1,137.08)		-		(216.59)	(1,353.67)		-		-					
	FTR Guarantee Uplift Amount	55500-0055	1,750.34			1,220.34		-		232.45		-	1,452.78		-		(6.12)					
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	7,590.51			5,292.10		-		1,008.02		-	6,300.12		-		(26.56)					
31	Financial Transmission Rights Transaction	55500-0034	-			-		-		-		-	-		-		-					
<b>Subtotal</b>			<b>405,870.66</b>		<b>754,014</b>	<b>912,934.12</b>		<b>754,014</b>		<b>(630,332.66)</b>		<b>144,715</b>	<b>173,892.21</b>		<b>144,715</b>		<b>(120,063.36)</b>	<b>336,430.31</b>	<b>13,449</b>		<b>13,449</b>	<b>(4,599.71)</b>
<b>RSG &amp; Make Whole Payments</b>																						
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	47,101.48			32,839.15		-		6,255.08		-	39,094.23		-		(164.82)					
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-			-		-		-		-	-		-		-					
	Real Time Price Volatility Make Whole Payment	55500-0057	(25,284.00)			-		(17,628.00)		-		(3,357.72)	(20,985.72)		-		-					
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	24,159.64			16,844.10		-		3,208.40		-	20,052.50		-		(84.54)					
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-			-		-		-		-	-		-		-					
<b>Subtotal</b>			<b>45,977.12</b>		<b>754,014</b>	<b>49,683.25</b>		<b>754,014</b>		<b>(17,628.00)</b>		<b>144,715</b>	<b>9,463.48</b>		<b>144,715</b>		<b>(3,357.72)</b>	<b>38,161.01</b>	<b>13,449</b>		<b>13,449</b>	<b>(249.37)</b>
<b>RNU &amp; Misc Charges</b>																						
20	Real Time Miscellaneous	55500-0042	(70,826.30)			-		(49,380.10)		-		(9,405.73)	(58,785.83)		-		-					
21	Real Time Net Inadvertent Distribution	55500-0044	(16,989.03)			-		(11,844.75)		-		(2,256.14)	(14,100.89)		-		-					
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	206,835.38			144,205.63		-		27,467.74		-	171,673.37		-		(723.78)					
26	Real Time Uninstructed Deviation	55500-0048	-			-		-		-		-	-		-		-					
<b>Subtotal</b>			<b>119,020.05</b>		<b>754,014</b>	<b>144,205.63</b>		<b>754,014</b>		<b>(61,224.85)</b>		<b>144,715</b>	<b>27,467.74</b>		<b>144,715</b>		<b>(11,661.88)</b>	<b>98,786.64</b>	<b>13,449</b>		<b>13,449</b>	<b>(723.78)</b>

MINNESOTA POWER		Account	February 2015		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																	
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	-										-				
<b>Subtotal</b>			-		<b>754,014</b>	-	<b>754,014</b>	-	<b>144,715</b>	-	<b>144,715</b>	-	-	<b>13,449</b>	-	<b>13,449</b>	-
<b>ASM Charge Types (12 Other)</b>																	
	Day Ahead Regulation Amount	55500-0062	(26,510.73)			-	(18,483.28)		-		(3,520.62)	(22,003.91)		-			-
	Day Ahead Spinning Reserve Amount	55500-0063	(20,152.97)			-	(14,050.65)		-		(2,676.31)	(16,726.97)		-			-
	Day Ahead Supplemental Reserve Amount	55500-0064	-			-	-		-		-	-		-			-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-			-	-		-		-	-		-			-
	Net Regulation Adjustment Amount	55500-0068	(582.06)			-	(405.81)		-		(77.30)	(483.11)		-			-
	Real Time Regulation Amount	55500-0070	4,058.85			2,829.83	-		539.02		-	3,368.85		-			(14.20)
	Regulation Reserve Cost Distribution Amount	55500-0071	19,027.81			13,266.19	-		2,526.89		-	15,793.08		-			(66.58)
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	3,852.55			2,686.00	-		511.62		-	3,197.62		-			(13.48)
	Real Time Spinning Reserve Amount	55500-0072	5,979.96			4,169.23	-		794.14		-	4,963.37		-			(20.93)
	Spinning Reserve Cost Distribution Amount	55500-0073	16,877.36			11,766.90	-		2,241.31		-	14,008.21		-			(59.06)
	Real Time Supplemental Reserve Amount	55500-0074	-			-	-		-		-	-		-			-
	Supplemental Reserve Cost Distribution Amount	55500-0075	8,131.13			5,669.02	-		1,079.81		-	6,748.84		-			(28.45)
<b>Subtotal</b>			<b>10,681.90</b>		<b>754,014</b>	<b>40,387.16</b>	-	<b>(32,939.74)</b>	<b>144,715</b>	<b>7,692.79</b>	-	<b>(6,274.24)</b>	<b>8,865.98</b>	-	-	-	<b>(202.71)</b>
<b>Grand Total</b>			<b>4,247,570.61</b>		<b>754,014</b>	<b>5,154,016.12</b>	<b>754,014</b>	<b>(1,178,362.57)</b>	<b>144,715</b>	<b>981,717.36</b>	<b>144,715</b>	<b>(224,450.01)</b>	<b>4,732,920.89</b>	<b>13,449</b>	-	<b>13,449</b>	<b>(13,878.58)</b>

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

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

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

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



MINNESOTA POWER

MISO MONTHLY ALLOCATION

Congestion, FTRs & ARRr

	Account Number	February 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales				
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	19,050.14																3,568.95	-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(113,632.30)																-	(21,288.44)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	575,290.45																107,777.79	-
Real Time Financial Bilateral Transaction Congestion	55500-0037	336.88																63.11	-
Auction Revenue Rights Transaction Amount	55500-0058	(665,271.99)																-	(124,635.38)
Financial Transmission Rights Annual Transaction Amount	55500-0059	666,236.20																124,816.02	-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	39,067.46																7,319.09	-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(50,988.00)																-	(9,552.35)
Financial Transmission Rights Hourly Allocation	55500-0032	(67,897.00)																-	(12,720.16)
Financial Transmission Rights Monthly Allocation	55500-0033	(4,031.10)																-	(755.21)
Financial Transmission Rights Yearly Allocation	55500-0035	-																-	-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(1,630.93)																-	(305.55)
FTR Guarantee Uplift Amount	55500-0055	1,750.34																327.92	-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	7,590.51																1,422.04	-
Financial Transmission Rights Transaction	55500-0034	-																-	-
<b>Subtotal</b>		<b>405,870.66</b>	<b>42,774</b>	<b>-</b>	<b>42,774</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>53,213</b>	<b>16,201.79</b>	<b>53,213</b>	<b>(18,199.58)</b>	<b>208,939</b>	<b>245,294.93</b>	<b>208,939</b>	<b>(169,257.09)</b>		

RSG & Make Whole Payments

Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	47,101.48																8,824.23	-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	-																-	-
Real Time Price Volatility Make Whole Payment	55500-0057	(25,284.00)																-	(4,736.83)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	24,159.64																4,526.19	-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-																-	-
<b>Subtotal</b>		<b>45,977.12</b>	<b>42,774</b>	<b>-</b>	<b>42,774</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>53,213</b>	<b>438.55</b>	<b>53,213</b>	<b>(986.66)</b>	<b>208,939</b>	<b>13,350.41</b>	<b>208,939</b>	<b>(4,736.83)</b>		

RNU & Misc Charges

Real Time Miscellaneous	55500-0042	(70,826.30)																-	(13,268.95)
Real Time Net Inadvertent Distribution	55500-0044	(16,989.03)																-	(3,182.81)
Real Time Revenue Neutrality Uplift Amount	55500-0045	206,835.38																38,749.57	-
Real Time Uninstructed Deviation	55500-0048	-																-	-
<b>Subtotal</b>		<b>119,020.05</b>	<b>42,774</b>	<b>-</b>	<b>42,774</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>53,213</b>	<b>1,523.16</b>	<b>53,213</b>	<b>(2,863.78)</b>	<b>208,939</b>	<b>38,749.57</b>	<b>208,939</b>	<b>(16,451.76)</b>		

**MINNESOTA POWER**

**MISO MONTHLY ALLOCATION**

Account Number	February 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales				
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	
<b>Grandfathered Charge Types</b>																		
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	-															-	
<b>Subtotal</b>		-	<b>42,774</b>	-	<b>42,774</b>	-					<b>53,213</b>	-	<b>53,213</b>	-		<b>208,939</b>	-	<b>208,939</b>
<b>ASM Charge Types (12 Other)</b>																		
Day Ahead Regulation Amount	55500-0062	(26,510.73)									<b>459.83</b>		-			-	<b>(4,966.65)</b>	
Day Ahead Spinning Reserve Amount	55500-0063	(20,152.97)									<b>349.55</b>		-			-	<b>(3,775.56)</b>	
Day Ahead Supplemental Reserve Amount	55500-0064	-									-		-			-	-	
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-									-		-			-	-	
Net Regulation Adjustment Amount	55500-0068	(582.06)									<b>10.10</b>		-			-	<b>(109.05)</b>	
Real Time Regulation Amount	55500-0070	4,058.85									-		<b>(56.20)</b>		<b>760.41</b>		-	
Regulation Reserve Cost Distribution Amount	55500-0071	19,027.81									-		<b>(263.45)</b>		<b>3,564.77</b>		-	
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	3,852.55									-		<b>(53.34)</b>		<b>721.76</b>		-	
Real Time Spinning Reserve Amount	55500-0072	5,979.96									-		<b>(82.80)</b>		<b>1,120.32</b>		-	
Spinning Reserve Cost Distribution Amount	55500-0073	16,877.36									-		<b>(233.68)</b>		<b>3,161.89</b>		-	
Real Time Supplemental Reserve Amount	55500-0074	-									-		-		-		-	
Supplemental Reserve Cost Distribution Amount	55500-0075	8,131.13									-		<b>(112.58)</b>		<b>1,523.33</b>		-	
<b>Subtotal</b>		<b>10,681.90</b>	-	-	-	-	-	-	-	-	<b>819.48</b>	-	<b>(802.05)</b>	-	<b>10,852.46</b>	-	<b>(8,851.26)</b>	
<b>Grand Total</b>		<b>4,247,570.61</b>	<b>42,774</b>	-	<b>42,774</b>	-	-	-	-	<b>53,213</b>	<b>30,251.37</b>	<b>53,213</b>	<b>(54,913.09)</b>	<b>208,939</b>	<b>663,045.83</b>	<b>208,939</b>	<b>(316,422.70)</b>	

MINNESOTA POWER		Account		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number	March 2015	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	4,706,588.87									-				
5	Day Ahead Non-Asset Energy	55500-0027	(1,421,513.61)									-				
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(709,723.15)									-				
	Excessive Energy Amount	55500-0066	28,536.89									-				
	Non-Excessive Energy Amount	55500-0069	(627,372.36)									-				
22	Real Time Non-Asset Energy	55500-0043	(159,484.13)									-				
<b>Subtotal</b>			<b>1,817,032.51</b>	<b>794,592</b>	<b>2,462,510.81</b>			<b>140,860</b>	<b>434,560.73</b>			<b>2,897,071.54</b>	<b>22,736</b>			
<b>Day Ahead and Real Time Energy Loss</b>																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	1,138,916.01		795,792.81		-		140,434.03		-	936,226.84		-		(1,896.46)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	212,133.93		147,857.35		-		26,092.47		-	173,949.82		-		(206.91)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(53,126.66)		-		(37,121.10)		-		(6,550.78)	(43,671.88)		-		-
14	Real Time Distribution of Losses	55500-0041	(443,160.02)		-		(308,882.53)		-		(54,508.68)	(363,391.22)		-		-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>854,763.25</b>	<b>794,592</b>	<b>943,650.16</b>	<b>794,592</b>	<b>(346,003.63)</b>	<b>140,860</b>	<b>166,526.50</b>	<b>140,860</b>	<b>(61,059.46)</b>	<b>703,113.56</b>	<b>22,736</b>	<b>-</b>	<b>22,736</b>	<b>(2,103.38)</b>
<b>Virtual Energy</b>																
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-				
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-				
<b>Subtotal</b>			<b>-</b>	<b>794,592</b>	<b>-</b>	<b>794,592</b>	<b>-</b>	<b>140,860</b>	<b>-</b>	<b>140,860</b>	<b>-</b>	<b>-</b>	<b>22,736</b>	<b>-</b>	<b>22,736</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	190,333.53		132,662.47		-		23,411.02		-	156,073.49		-		(185.65)
19	Real Time Market Administration (Schedule 17)	55500-0036	16,342.69		11,390.85		-		2,010.15		-	13,401.01		-		(15.94)
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,301.89		4,392.42		-		775.13		-	5,167.55		-		(6.15)
<b>Subtotal</b>			<b>212,978.11</b>	<b>794,592</b>	<b>148,445.74</b>	<b>794,592</b>	<b>-</b>	<b>140,860</b>	<b>26,196.31</b>	<b>140,860</b>	<b>-</b>	<b>174,642.05</b>	<b>22,736</b>	<b>-</b>	<b>22,736</b>	<b>(207.74)</b>

MINNESOTA POWER		Account	March 2015	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	12,520.69	8,748.56		-		1,543.86			-	10,292.42				(20.85)
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(112,143.44)	-		(78,357.79)		-			(13,827.85)	(92,185.63)				-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	458,160.90	319,338.15		-		56,353.79			-	375,691.94				(446.89)
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	-		-		-			-	-				-
	Auction Revenue Rights Transaction Amount	55500-0058	(672,652.43)	-		(468,838.74)		-			(82,736.25)	(551,574.99)				-
	Financial Transmission Rights Annual Transaction Amount	55500-0059	668,456.65	465,914.29		-		82,220.17			-	548,134.45				(652.01)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	53,275.48	37,133.01		-		6,552.88			-	43,685.89				(51.96)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(62,026.94)	-		(43,232.78)		-			(7,629.31)	(50,862.09)				-
28	Financial Transmission Rights Hourly Allocation	55500-0032	(171,321.98)	-		(119,411.42)		-			(21,072.60)	(140,484.02)				-
30	Financial Transmission Rights Monthly Allocation	55500-0033	(3,629.88)	-		(2,530.03)		-			(446.48)	(2,976.50)				-
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-		-		-			-	-				-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(3,521.27)	-		(2,454.33)		-			(433.12)	(2,887.44)				-
	FTR Guarantee Uplift Amount	55500-0055	3,634.75	2,533.42		-		447.07			-	2,980.50				(3.55)
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	-		-		-			-	-				-
31	Financial Transmission Rights Transaction	55500-0034	-	-		-		-			-	-				-
<b>Subtotal</b>			<b>170,752.53</b>	<b>794,592</b>	<b>833,667.42</b>	<b>794,592</b>	<b>(714,825.08)</b>	<b>140,860</b>	<b>147,117.78</b>	<b>140,860</b>	<b>(126,145.60)</b>	<b>139,814.51</b>	<b>22,736</b>	<b>-</b>	<b>22,736</b>	<b>(1,175.26)</b>
<b>RSG &amp; Make Whole Payments</b>																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	152,245.65	106,115.22		-		18,726.21			-	124,841.43				(148.50)
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(38.04)	-		(26.51)		-			(4.68)	(31.19)				-
	Real Time Price Volatility Make Whole Payment	55500-0057	(27,003.58)	-		(18,821.50)		-			(3,321.44)	(22,142.94)				-
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	68,729.08	47,904.17		-		8,453.68			-	56,357.85				(67.04)
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-	-		-		-			-	-				-
<b>Subtotal</b>			<b>193,933.11</b>	<b>794,592</b>	<b>154,019.39</b>	<b>794,592</b>	<b>(18,848.01)</b>	<b>140,860</b>	<b>27,179.89</b>	<b>140,860</b>	<b>(3,326.12)</b>	<b>159,025.15</b>	<b>22,736</b>	<b>-</b>	<b>22,736</b>	<b>(215.54)</b>
<b>RNU &amp; Misc Charges</b>																
20	Real Time Miscellaneous	55500-0042	(73,689.16)	-		(51,361.34)		-			(9,063.77)	(60,425.11)				-
21	Real Time Net Inadvertent Distribution	55500-0044	10,938.28	7,623.98		-		1,345.41			-	8,969.39				(10.67)
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	109,155.35	76,081.28		-		13,426.11			-	89,507.39				(106.47)
26	Real Time Uninstructed Deviation	55500-0048	-	-		-		-			-	-				-
<b>Subtotal</b>			<b>46,404.47</b>	<b>794,592</b>	<b>83,705.26</b>	<b>794,592</b>	<b>(51,361.34)</b>	<b>140,860</b>	<b>14,771.52</b>	<b>140,860</b>	<b>(9,063.77)</b>	<b>38,051.67</b>	<b>22,736</b>	<b>-</b>	<b>22,736</b>	<b>(117.14)</b>

MINNESOTA POWER		Account	March 2015	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																
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	-								-					
<b>Subtotal</b>			-	<b>794,592</b>	-	<b>794,592</b>	-	<b>140,860</b>	-	<b>140,860</b>	-	-	<b>22,736</b>	-	<b>22,736</b>	-
<b>ASM Charge Types (12 Other)</b>																
	Day Ahead Regulation Amount	55500-0062	(51,747.63)	-		<b>(36,068.10)</b>		-		<b>(6,364.96)</b>	(42,433.06)		-			-
	Day Ahead Spinning Reserve Amount	55500-0063	(18,118.07)	-		<b>(12,628.29)</b>		-		<b>(2,228.52)</b>	(14,856.82)		-			-
	Day Ahead Supplemental Reserve Amount	55500-0064	(6.46)	-		<b>(4.50)</b>		-		<b>(0.79)</b>	(5.30)		-			-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	-		-		-		-	-		-			-
	Net Regulation Adjustment Amount	55500-0068	1,070.52	<b>746.15</b>		-		<b>131.67</b>		-	877.83		-			<b>(1.04)</b>
	Real Time Regulation Amount	55500-0070	7,404.67	<b>5,161.05</b>		-		<b>910.77</b>		-	6,071.83		-			<b>(7.22)</b>
	Regulation Reserve Cost Distribution Amount	55500-0071	32,190.26	<b>22,436.61</b>		-		<b>3,959.40</b>		-	26,396.01		-			<b>(31.40)</b>
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	14,064.30	<b>9,802.82</b>		-		<b>1,729.91</b>		-	11,532.73		-			<b>(13.72)</b>
	Real Time Spinning Reserve Amount	55500-0072	1,074.78	<b>749.12</b>		-		<b>132.20</b>		-	881.32		-			<b>(1.05)</b>
	Spinning Reserve Cost Distribution Amount	55500-0073	27,839.16	<b>19,403.89</b>		-		<b>3,424.22</b>		-	22,828.11		-			<b>(27.15)</b>
	Real Time Supplemental Reserve Amount	55500-0074	2.84	<b>1.98</b>		-		<b>0.35</b>		-	2.33		-			<b>(0.00)</b>
	Supplemental Reserve Cost Distribution Amount	55500-0075	10,060.24	<b>7,011.99</b>		-		<b>1,237.41</b>		-	8,249.40		-			<b>(9.81)</b>
<b>Subtotal</b>			<b>23,834.61</b>	<b>794,592</b>	<b>65,313.62</b>	-	<b>(48,700.90)</b>	<b>140,860</b>	<b>11,525.93</b>	-	<b>(8,594.28)</b>	<b>19,544.38</b>	-	-	-	<b>(91.40)</b>
<b>Grand Total</b>			<b>3,319,698.59</b>	<b>794,592</b>	<b>4,691,312.40</b>	<b>794,592</b>	<b>(1,179,738.96)</b>	<b>140,860</b>	<b>827,878.66</b>	<b>140,860</b>	<b>(208,189.23)</b>	<b>4,131,262.86</b>	<b>22,736</b>	-	<b>22,736</b>	<b>(3,910.46)</b>

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

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

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

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



MINNESOTA POWER		Account	March 2015		MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION		Number	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		
<b>Day Ahead and Real Time Energy</b>																				
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050																			
Day Ahead Non-Asset Energy	55500-0027		4,706,588.87	(1,421,513.61)																
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050			(709,723.15)																
Excessive Energy Amount	55500-0066			28,536.89																
Non-Excessive Energy Amount	55500-0069			(627,372.36)																
Real Time Non-Asset Energy	55500-0043			(159,484.13)																
<b>Subtotal</b>			<b>1,817,032.51</b>	<b>72,111</b>							<b>44,286</b>							<b>209,385</b>		
<b>Day Ahead and Real Time Energy Loss</b>																				
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		1,138,916.01																	
Day Ahead Financial Bilateral Transaction Loss	55500-0022		212,133.93																	
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		(53,126.66)																	
Real Time Distribution of Losses	55500-0041		(443,160.02)																	
Real Time Financial Bilateral Transaction Loss	55500-0038		-																	
<b>Subtotal</b>			<b>854,763.25</b>	<b>72,111</b>		<b>72,111</b>						<b>44,286</b>	<b>1,534.99</b>	<b>44,286</b>	<b>(4,096.99)</b>	<b>209,385</b>	<b>247,073.65</b>	<b>209,385</b>	<b>(90,758.57)</b>	
<b>Virtual Energy</b>																				
Day Ahead Virtual Energy	55500-0030		-																	
Real Time Virtual Energy	55500-0049		-																	
<b>Subtotal</b>			<b>-</b>	<b>72,111</b>		<b>72,111</b>						<b>44,286</b>		<b>44,286</b>		<b>209,385</b>		<b>209,385</b>		
<b>Schedule 16 &amp; 17 1/</b>																				
Day Ahead Market Administration (Schedule 17)	55500-0020		190,333.53																	
Real Time Market Administration (Schedule 17)	55500-0036		16,342.69																	
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		6,301.89																	
<b>Subtotal</b>			<b>212,978.11</b>	<b>72,111</b>		<b>72,111</b>						<b>44,286</b>		<b>44,286</b>	<b>(404.64)</b>	<b>209,385</b>	<b>38,948.43</b>	<b>209,385</b>		

**MINNESOTA POWER**

**MISO MONTHLY ALLOCATION**

	Account Number	March 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																		
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	12,520.69																
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(112,143.44)																
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	458,160.90																
Real Time Financial Bilateral Transaction Congestion	55500-0037	-																
Auction Revenue Rights Transaction Amount	55500-0058	(672,652.43)																
Financial Transmission Rights Annual Transaction Amount	55500-0059	668,456.65																
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	53,275.48																
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(62,026.94)																
Financial Transmission Rights Hourly Allocation	55500-0032	(171,321.98)																
Financial Transmission Rights Monthly Allocation	55500-0033	(3,629.88)																
Financial Transmission Rights Yearly Allocation	55500-0035	-																
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(3,521.27)																
FTR Guarantee Uplift Amount	55500-0055	3,634.75																
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-																
Financial Transmission Rights Transaction	55500-0034	-																
<b>Subtotal</b>		<b>170,752.53</b>	<b>72,111</b>	<b>-</b>	<b>72,111</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>44,286</b>	<b>3,176.04</b>	<b>44,286</b>	<b>(2,289.18)</b>	<b>209,385</b>	<b>218,727.71</b>	<b>209,385</b>	<b>(187,501.29)</b>	
<b>RSG &amp; Make Whole Payments</b>																		
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	152,245.65																
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(38.04)																
Real Time Price Volatility Make Whole Payment	55500-0057	(27,003.58)																
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	68,729.08																
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-																
<b>Subtotal</b>		<b>193,933.11</b>	<b>72,111</b>	<b>-</b>	<b>72,111</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>44,286</b>	<b>77.75</b>	<b>44,286</b>	<b>(419.83)</b>	<b>209,385</b>	<b>40,410.82</b>	<b>209,385</b>	<b>(4,945.24)</b>	
<b>RNU &amp; Misc Charges</b>																		
Real Time Miscellaneous	55500-0042	(73,689.16)																
Real Time Net Inadvertent Distribution	55500-0044	10,938.28																
Real Time Revenue Neutrality Uplift Amount	55500-0045	109,155.35																
Real Time Uninstructed Deviation	55500-0048	-																
<b>Subtotal</b>		<b>46,404.47</b>	<b>72,111</b>	<b>-</b>	<b>72,111</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>44,286</b>	<b>211.88</b>	<b>44,286</b>	<b>(228.16)</b>	<b>209,385</b>	<b>21,962.16</b>	<b>209,385</b>	<b>(13,475.93)</b>	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Account Number	March 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
		<b>Grandfathered Charge Types</b>															
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	-															
<b>Subtotal</b>		-	72,111	-	72,111	-	-	-	-	44,286	-	44,286	-	209,385	-	209,385	-
<b>ASM Charge Types (12 Other)</b>																	
Day Ahead Regulation Amount	55500-0062	(51,747.63)								148.79		-					(9,463.36)
Day Ahead Spinning Reserve Amount	55500-0063	(18,118.07)								52.09		-					(3,313.35)
Day Ahead Supplemental Reserve Amount	55500-0064	(6.46)								0.02		-					(1.18)
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-								-		-					-
Net Regulation Adjustment Amount	55500-0068	1,070.52								-		(2.03)				195.77	-
Real Time Regulation Amount	55500-0070	7,404.67								-		(14.07)				1,354.13	-
Regulation Reserve Cost Distribution Amount	55500-0071	32,190.26								-		(61.16)				5,886.80	-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	14,064.30								-		(26.72)				2,572.01	-
Real Time Spinning Reserve Amount	55500-0072	1,074.78								-		(2.04)				196.55	-
Spinning Reserve Cost Distribution Amount	55500-0073	27,839.16								-		(52.89)				5,091.09	-
Real Time Supplemental Reserve Amount	55500-0074	2.84								-		(0.01)				0.52	-
Supplemental Reserve Cost Distribution Amount	55500-0075	10,060.24								-		(19.11)				1,839.77	-
<b>Subtotal</b>		23,834.61	-	-	-	-	-	-	-	200.90	-	(178.03)	-	17,136.65	-	(12,777.89)	
<b>Grand Total</b>		3,319,698.59	72,111	-	72,111	-	-	-	-	44,286	5,201.56	44,286	(7,616.84)	209,385	584,259.42	209,385	(309,458.92)

MINNESOTA POWER		Account	April 2015	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050														
5	Day Ahead Non-Asset Energy	55500-0027	4,158,269.21 (1,178,170.80)								-					
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	1,273,317.88								-					
	Excessive Energy Amount	55500-0066	42,875.04								-					
	Non-Excessive Energy Amount	55500-0069	(225,852.22)								-					
22	Real Time Non-Asset Energy	55500-0043	(67,464.88)								-					
<b>Subtotal</b>			<b>4,002,974.23</b>	<b>720,051</b>	<b>4,178,285.09</b>				<b>125,136</b>	<b>737,344.43</b>		<b>4,915,629.52</b>	<b>4,001</b>			
<b>Day Ahead and Real Time Energy Loss</b>																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	746,668.56		531,064.94	-		93,717.34			-	624,782.28			-	(6,292.48)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	191,544.33		136,762.65	-		24,134.59			-	160,897.24			-	(1,698.67)
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(27,179.19)		-	(19,331.09)		-			(3,411.37)	(22,742.46)			-	-
14	Real Time Distribution of Losses	55500-0041	(206,196.66)		-	(147,224.42)		-			(25,980.78)	(173,205.19)			-	-
16	Real Time Financial Bilateral Transaction Loss	55500-0038	(3,174.78)		-	(2,266.79)		-			(400.02)	(2,666.82)			-	-
<b>Subtotal</b>			<b>701,662.26</b>	<b>720,051</b>	<b>667,827.59</b>	<b>720,051</b>	<b>(168,822.30)</b>	<b>125,136</b>	<b>117,851.93</b>	<b>125,136</b>	<b>(29,792.17)</b>	<b>587,065.05</b>	<b>4,001</b>	<b>-</b>	<b>4,001</b>	<b>(7,991.15)</b>
<b>Virtual Energy</b>																
12	Day Ahead Virtual Energy	55500-0030	-		-	-		-			-					
27	Real Time Virtual Energy	55500-0049	-		-	-		-			-					
<b>Subtotal</b>			<b>-</b>	<b>720,051</b>	<b>-</b>	<b>720,051</b>	<b>-</b>	<b>125,136</b>	<b>-</b>	<b>125,136</b>	<b>-</b>	<b>-</b>	<b>4,001</b>	<b>-</b>	<b>4,001</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	135,652.88		96,856.16	-		17,092.26			-	113,948.42			-	(1,203.01)
19	Real Time Market Administration (Schedule 17)	55500-0036	12,819.64		9,153.22	-		1,615.27			-	10,768.50			-	(113.69)
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,557.43		4,682.01	-		826.24			-	5,508.24			-	(58.15)
<b>Subtotal</b>			<b>155,029.95</b>	<b>720,051</b>	<b>110,691.38</b>	<b>720,051</b>	<b>-</b>	<b>125,136</b>	<b>19,533.77</b>	<b>125,136</b>	<b>-</b>	<b>130,225.16</b>	<b>4,001</b>	<b>-</b>	<b>4,001</b>	<b>(1,374.85)</b>

MINNESOTA POWER		Account	April 2015	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
Congestion, FTRs & ARRs																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	(50,670.24)	-		(36,039.00)					(6,359.82)	(42,398.82)		-		-
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(46,052.35)	-		(32,754.54)					(5,780.21)	(38,534.76)		-		-
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	264,004.60	188,499.28		-		33,264.58			-	221,763.86		-		(2,341.27)
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	(19,390.43)	-		(13,844.77)					(2,443.19)	(16,287.96)		-		-
	Auction Revenue Rights Transaction Amount	55500-0058	(672,652.43)	-		(480,273.84)					(84,754.21)	(565,028.04)		-		-
	Financial Transmission Rights Annual Transaction Amount	55500-0059	668,456.65	477,278.05		-		84,225.54			-	561,503.59		-		(5,928.07)
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	53,275.48	38,038.69		-		6,712.71			-	44,751.40		-		(472.46)
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(61,007.97)	-		(43,559.69)					(7,687.00)	(51,246.69)		-		-
28	Financial Transmission Rights Hourly Allocation	55500-0032	(43,782.22)	-		(31,260.51)					(5,516.56)	(36,777.06)		-		-
30	Financial Transmission Rights Monthly Allocation	55500-0033	(6,250.63)	-		(4,462.95)					(787.58)	(5,250.53)		-		-
32	Financial Transmission Rights Yearly Allocation	55500-0035	(82,670.14)	-		(59,026.48)					(10,416.44)	(69,442.92)		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	85,461.38	61,019.43		-		10,768.13			-	71,787.56		-		(757.90)
	FTR Guarantee Uplift Amount	55500-0055	(20,079.40)	-		(14,336.69)					(2,530.00)	(16,866.70)		-		-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	61,431.17	43,861.86		-		7,740.33			-	51,602.18		-		(544.79)
31	Financial Transmission Rights Transaction	55500-0034	-	-		-		-			-	-		-		-
<b>Subtotal</b>			<b>130,073.47</b>	<b>720,051</b>	<b>808,697.31</b>	<b>720,051</b>	<b>(715,558.46)</b>	<b>125,136</b>	<b>142,711.29</b>	<b>125,136</b>	<b>(126,275.02)</b>	<b>109,575.11</b>	<b>4,001</b>	<b>-</b>	<b>4,001</b>	<b>(10,044.49)</b>
<b>RSG &amp; Make Whole Payments</b>																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	4,336.19	3,096.04		-		546.36			-	3,642.40		-		(38.45)
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	8.09	5.78		-		1.02			-	6.80		-		(0.07)
	Real Time Price Volatility Make Whole Payment	55500-0057	(17,060.05)	-		(12,180.88)					(2,149.57)	(14,330.44)		-		-
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	6,754.97	4,823.05		-		851.13			-	5,674.17		-		(59.91)
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(145.77)	-		(104.08)					(18.37)	(122.45)		-		-
<b>Subtotal</b>			<b>(6,106.57)</b>	<b>720,051</b>	<b>7,924.86</b>	<b>720,051</b>	<b>(12,284.96)</b>	<b>125,136</b>	<b>1,398.51</b>	<b>125,136</b>	<b>(2,167.93)</b>	<b>(5,129.52)</b>	<b>4,001</b>	<b>-</b>	<b>4,001</b>	<b>(98.43)</b>
<b>RNU &amp; Misc Charges</b>																
20	Real Time Miscellaneous	55500-0042	1,411.56	1,007.85		-		177.86			-	1,185.71		-		(12.52)
21	Real Time Net Inadvertent Distribution	55500-0044	(13,602.31)	-		(9,712.05)					(1,713.89)	(11,425.94)		-		-
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	101,497.49	72,469.21		-		12,788.68			-	85,257.89		-		(900.11)
26	Real Time Uninstructed Deviation	55500-0048	-	-		-		-			-	-		-		-
<b>Subtotal</b>			<b>89,306.74</b>	<b>720,051</b>	<b>73,477.06</b>	<b>720,051</b>	<b>(9,712.05)</b>	<b>125,136</b>	<b>12,966.54</b>	<b>125,136</b>	<b>(1,713.89)</b>	<b>75,017.66</b>	<b>4,001</b>	<b>-</b>	<b>4,001</b>	<b>(912.63)</b>

MINNESOTA POWER		Account	April 2015		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																	
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	-										-				
<b>Subtotal</b>			-		<b>720,051</b>	-	<b>720,051</b>	-	<b>125,136</b>	-	<b>125,136</b>	-	-	<b>4,001</b>	-	<b>4,001</b>	-
<b>ASM Charge Types (12 Other)</b>																	
	Day Ahead Regulation Amount	55500-0062	(18,597.70)			-	(13,278.76)		-		(2,343.31)	(15,622.07)		-			-
	Day Ahead Spinning Reserve Amount	55500-0063	(10,709.23)			-	(7,646.39)		-		(1,349.36)	(8,995.75)		-			-
	Day Ahead Supplemental Reserve Amount	55500-0064	1.46			1.04	-		0.18		-	1.23		-			(0.01)
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-			-	-		-		-	-		-			-
	Net Regulation Adjustment Amount	55500-0068	286.71			204.71	-		36.13		-	240.84		-			(2.54)
	Real Time Regulation Amount	55500-0070	(253.19)			-	(180.78)		-		(31.90)	(212.68)		-			-
	Regulation Reserve Cost Distribution Amount	55500-0071	20,437.20			14,592.16	-		2,575.09		-	17,167.25		-			(181.24)
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	3,846.62			2,746.49	-		484.67		-	3,231.16		-			(34.11)
	Real Time Spinning Reserve Amount	55500-0072	1,027.19			733.41	-		129.43		-	862.84		-			(9.11)
	Spinning Reserve Cost Distribution Amount	55500-0073	20,337.08			14,520.68	-		2,562.47		-	17,083.15		-			(180.36)
	Real Time Supplemental Reserve Amount	55500-0074	(3.25)			-	(2.32)		-		(0.41)	(2.73)		-			-
	Supplemental Reserve Cost Distribution Amount	55500-0075	7,209.24			5,147.40	-		908.36		-	6,055.76		-			(63.93)
<b>Subtotal</b>			<b>23,582.13</b>		<b>720,051</b>	<b>37,945.89</b>	-	<b>(21,108.25)</b>	<b>125,136</b>	<b>6,696.33</b>	-	<b>(3,724.98)</b>	<b>19,808.99</b>	-	-	-	<b>(471.31)</b>
<b>Grand Total</b>			<b>5,096,522.21</b>		<b>720,051</b>	<b>5,884,849.18</b>	<b>720,051</b>	<b>(927,486.01)</b>	<b>125,136</b>	<b>1,038,502.80</b>	<b>125,136</b>	<b>(163,674.00)</b>	<b>5,832,191.97</b>	<b>4,001</b>	-	<b>4,001</b>	<b>(20,892.87)</b>

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

DA and RT Asset Energy amounts have been reduced by the generation to load LMP differences (RE) which are then shown in the Day Ahead Loss, Real Time Loss, Day Ahead Congestion and Real Time Congestion lines  
Other Asset Backed Sales includes liquidation sales which are not assessed MISO charges as all margins from liquidation sales are allocated to the FPE  
DA and RT Asset Energy and DA and RT Non-Asset Energy is not allocated to MISO Non-Liquidation, MISO Liquidation, Others-Liquidation, Others-Non-Liquidation and Contract sales as these amounts are not tracked separately by Minnesota Power's systems

MINNESOTA POWER		Account	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
MISO MONTHLY ALLOCATION		Number	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
		April 2015	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																		
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	4,158,269.21																
Day Ahead Non-Asset Energy	55500-0027	(1,178,170.80)																
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	1,273,317.88																
Excessive Energy Amount	55500-0066	42,875.04																
Non-Excessive Energy Amount	55500-0069	(225,852.22)																
Real Time Non-Asset Energy	55500-0043	(67,464.88)																
<b>Subtotal</b>		<b>4,002,974.23</b>	<b>68,944</b>				<b>-</b>				<b>25,401</b>				<b>229,688</b>			
<b>Day Ahead and Real Time Energy Loss</b>																		
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	746,668.56																
Day Ahead Financial Bilateral Transaction Loss	55500-0022	191,544.33																
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(27,179.19)																
Real Time Distribution of Losses	55500-0041	(206,196.66)																
Real Time Financial Bilateral Transaction Loss	55500-0038	(3,174.78)																
<b>Subtotal</b>		<b>701,662.26</b>	<b>68,944</b>	<b>-</b>	<b>68,944</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>25,401</b>	<b>15,328.87</b>	<b>25,401</b>	<b>(50,736.55)</b>	<b>229,688</b>	<b>211,261.07</b>	<b>229,688</b>	<b>(53,265.03)</b>
<b>Virtual Energy</b>																		
Day Ahead Virtual Energy	55500-0030	-																
Real Time Virtual Energy	55500-0049	-																
<b>Subtotal</b>		<b>-</b>	<b>68,944</b>	<b>-</b>	<b>68,944</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>25,401</b>	<b>-</b>	<b>25,401</b>	<b>-</b>	<b>229,688</b>	<b>-</b>	<b>229,688</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																		
Day Ahead Market Administration (Schedule 17)	55500-0020	135,652.88																
Real Time Market Administration (Schedule 17)	55500-0036	12,819.64																
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,557.43																
<b>Subtotal</b>		<b>155,029.95</b>	<b>68,944</b>	<b>-</b>	<b>68,944</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>25,401</b>	<b>-</b>	<b>25,401</b>	<b>(8,729.06)</b>	<b>229,688</b>	<b>34,908.70</b>	<b>229,688</b>	<b>-</b>

MINNESOTA POWER

MISO MONTHLY ALLOCATION

	Account Number	April 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																		
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	(50,670.24)										3,138.20	-			-	(11,409.62)	
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(46,052.35)										2,852.20	-			-	(10,369.79)	
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	264,004.60										-	(14,864.94)		59,446.95	-		
Real Time Financial Bilateral Transaction Congestion	55500-0037	(19,390.43)										1,263.75	-			-	(4,366.22)	
Auction Revenue Rights Transaction Amount	55500-0058	(672,652.43)										43,839.40	-			-	(151,463.78)	
Financial Transmission Rights Annual Transaction Amount	55500-0059	668,456.65										-	(37,637.87)		150,519.00	-		
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	53,275.48										-	(2,999.71)		11,996.25	-		
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(61,007.97)										3,976.13	-			-	(13,737.40)	
Financial Transmission Rights Hourly Allocation	55500-0032	(43,782.22)										2,853.46	-			-	(9,858.61)	
Financial Transmission Rights Monthly Allocation	55500-0033	(6,250.63)										407.38	-			-	(1,407.48)	
Financial Transmission Rights Yearly Allocation	55500-0035	(82,670.14)										5,387.94	-			-	(18,615.16)	
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	85,461.38										-	(4,811.96)		19,243.67	-		
FTR Guarantee Uplift Amount	55500-0055	(20,079.40)										1,308.65	-			-	(4,521.36)	
Financial Transmission Rights Monthly Transaction Amount	55500-0056	61,431.17										-	(3,458.92)		13,832.70	-		
Financial Transmission Rights Transaction	55500-0034	-										-	-			-	-	
<b>Subtotal</b>		<b>130,073.47</b>	<b>68,944</b>	<b>-</b>	<b>68,944</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>25,401</b>	<b>65,027.10</b>	<b>25,401</b>	<b>(63,773.40)</b>	<b>229,688</b>	<b>255,038.58</b>	<b>229,688</b>	<b>(225,749.42)</b>	
<b>RSG &amp; Make Whole Payments</b>																		
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	4,336.19										-	(244.15)		976.40	-		
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	8.09										-	(0.46)		1.82	-		
Real Time Price Volatility Make Whole Payment	55500-0057	(17,060.05)										1,111.87	-			-	(3,841.48)	
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	6,754.97										-	(380.34)		1,521.04	-		
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(145.77)										9.50	-			-	(32.82)	
<b>Subtotal</b>		<b>(6,106.57)</b>	<b>68,944</b>	<b>-</b>	<b>68,944</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>25,401</b>	<b>1,121.37</b>	<b>25,401</b>	<b>(624.95)</b>	<b>229,688</b>	<b>2,499.26</b>	<b>229,688</b>	<b>(3,874.30)</b>	
<b>RNU &amp; Misc Charges</b>																		
Real Time Miscellaneous	55500-0042	1,411.56										-	(79.48)		317.85	-		
Real Time Net Inadvertent Distribution	55500-0044	(13,602.31)										886.52	-			-	(3,062.89)	
Real Time Revenue Neutrality Uplift Amount	55500-0045	101,497.49										-	(5,714.88)		22,854.59	-		
Real Time Uninstructed Deviation	55500-0048	-										-	-			-	-	
<b>Subtotal</b>		<b>89,306.74</b>	<b>68,944</b>	<b>-</b>	<b>68,944</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>25,401</b>	<b>886.52</b>	<b>25,401</b>	<b>(5,794.36)</b>	<b>229,688</b>	<b>23,172.43</b>	<b>229,688</b>	<b>(3,062.89)</b>	



**MINNESOTA POWER**

**MISO MONTHLY ALLOCATION**

Account Number	April 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales					
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		
		<b>Grandfathered Charge Types</b>																	
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	-															-		
<b>Subtotal</b>		-	<b>68,944</b>	-	<b>68,944</b>	-		-		-		<b>25,401</b>	-	<b>25,401</b>	-		<b>229,688</b>	-	<b>229,688</b>
<b>ASM Charge Types (12 Other)</b>																			
Day Ahead Regulation Amount	55500-0062	(18,597.70)									<b>1,212.09</b>		-				-		<b>(4,187.72)</b>
Day Ahead Spinning Reserve Amount	55500-0063	(10,709.23)									<b>697.96</b>		-				-		<b>(2,411.44)</b>
Day Ahead Supplemental Reserve Amount	55500-0064	1.46									-		<b>(0.08)</b>			<b>0.33</b>			-
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-									-		-			-			-
Net Regulation Adjustment Amount	55500-0068	286.71									-		<b>(16.14)</b>			<b>64.56</b>			-
Real Time Regulation Amount	55500-0070	(253.19)									<b>16.50</b>		-			-			<b>(57.01)</b>
Regulation Reserve Cost Distribution Amount	55500-0071	20,437.20									-		<b>(1,150.73)</b>			<b>4,601.92</b>			-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	3,846.62									-		<b>(216.59)</b>			<b>866.16</b>			-
Real Time Spinning Reserve Amount	55500-0072	1,027.19									-		<b>(57.84)</b>			<b>231.30</b>			-
Spinning Reserve Cost Distribution Amount	55500-0073	20,337.08									-		<b>(1,145.09)</b>			<b>4,579.38</b>			-
Real Time Supplemental Reserve Amount	55500-0074	(3.25)									<b>0.21</b>		-			-			<b>(0.73)</b>
Supplemental Reserve Cost Distribution Amount	55500-0075	7,209.24									-		<b>(405.92)</b>			<b>1,623.33</b>			-
<b>Subtotal</b>		<b>23,582.13</b>	-	-	-	-		-		-	<b>1,926.76</b>	-	<b>(2,992.39)</b>	-		<b>11,966.98</b>	-		<b>(6,656.90)</b>
<b>Grand Total</b>		<b>5,096,522.21</b>	<b>68,944</b>	-	<b>68,944</b>	-		-		-	<b>25,401</b>	<b>84,290.61</b>	<b>25,401</b>	<b>(132,650.70)</b>	<b>229,688</b>	<b>538,847.03</b>	<b>229,688</b>	<b>(292,608.54)</b>	

MINNESOTA POWER		Account	May 2015	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050														
5	Day Ahead Non-Asset Energy	55500-0027	5,180,173.37 (1,713,045.35)								-					
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(5,314,665.45)								-					
	Excessive Energy Amount	55500-0066	27,830.77								-					
	Non-Excessive Energy Amount	55500-0069	(246,685.33)								-					
22	Real Time Non-Asset Energy	55500-0043	(55,975.67)								-					
<b>Subtotal</b>			<b>(2,122,367.66)</b>	<b>643,288</b>	<b>313,047.57</b>			<b>121,629</b>	<b>59,628.11</b>			<b>372,675.68</b>	<b>89,263</b>			
<b>Day Ahead and Real Time Energy Loss</b>																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	927,590.75		565,496.08	-		107,713.54			-	673,209.62		29,167.62		-
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	326,111.26		199,971.42	-		38,089.80			-	238,061.22		9,395.07		-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(42,085.26)		-	(25,656.84)		-			(4,887.02)	(30,543.86)		-		(1,323.35)
14	Real Time Distribution of Losses	55500-0041	(225,158.10)		-	(138,066.95)		-			(26,298.47)	(164,365.41)		-		(6,486.67)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	740.78		454.25	-		86.52			-	540.77		21.34		-
<b>Subtotal</b>			<b>987,199.43</b>	<b>643,288</b>	<b>765,921.75</b>	<b>643,288</b>	<b>(163,723.79)</b>	<b>121,629</b>	<b>145,889.86</b>	<b>121,629</b>	<b>(31,185.48)</b>	<b>716,902.33</b>	<b>89,263</b>	<b>38,584.03</b>	<b>89,263</b>	<b>(7,810.02)</b>
<b>Virtual Energy</b>																
12	Day Ahead Virtual Energy	55500-0030	-		-	-		-			-					
27	Real Time Virtual Energy	55500-0049	-		-	-		-			-					
<b>Subtotal</b>			<b>-</b>	<b>643,288</b>	<b>-</b>	<b>643,288</b>	<b>-</b>	<b>121,629</b>	<b>-</b>	<b>121,629</b>	<b>-</b>	<b>-</b>	<b>89,263</b>	<b>-</b>	<b>89,263</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	138,629.71		85,007.74	-		16,191.95			-	101,199.69		3,993.84		-
19	Real Time Market Administration (Schedule 17)	55500-0036	11,636.89		7,135.74	-		1,359.19			-	8,494.93		335.25		-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	6,221.32		3,814.91	-		726.65			-	4,541.56		179.23		-
<b>Subtotal</b>			<b>156,487.92</b>	<b>643,288</b>	<b>95,958.39</b>	<b>643,288</b>	<b>-</b>	<b>121,629</b>	<b>18,277.79</b>	<b>121,629</b>	<b>-</b>	<b>114,236.18</b>	<b>89,263</b>	<b>4,508.32</b>	<b>89,263</b>	<b>-</b>

MINNESOTA POWER		Account	May 2015	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	(340,085.81)	-		(207,329.79)		-		(39,491.39)	(246,821.17)		-		(10,693.83)	
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(76,714.75)	-		(46,768.35)		-		(8,908.26)	(55,676.61)		-		(2,412.26)	
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	548,765.16	336,502.80		-		64,095.77		-	400,598.57		15,809.59		-	
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	4,524.43	2,774.38		-		528.45		-	3,302.83		130.35		-	
	Auction Revenue Rights Transaction Amount	55500-0058	(672,652.43)	-		(412,470.47)		-		(78,565.80)	(491,036.27)		-		(19,378.71)	
	Financial Transmission Rights Annual Transaction Amount	55500-0059	668,456.65	409,897.62		-		78,075.74		-	487,973.35		19,257.83		-	
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	53,275.48	32,668.52		-		6,222.58		-	38,891.10		1,534.83		-	
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(60,945.23)	-		(37,371.62)		-		(7,118.40)	(44,490.02)		-		(1,755.80)	
28	Financial Transmission Rights Hourly Allocation	55500-0032	15,788.87	9,681.74		-		1,844.14		-	11,525.88		454.87		-	
30	Financial Transmission Rights Monthly Allocation	55500-0033	(3,837.83)	-		(2,353.36)		-		(448.26)	(2,801.62)		-		(110.57)	
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-		-		-		-	-		-		-	
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(1,599.89)	-		(981.05)		-		(186.87)	(1,167.92)		-		(46.09)	
	FTR Guarantee Uplift Amount	55500-0055	1,599.89	981.05		-		186.87		-	1,167.92		46.09		-	
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	14,689.28	9,007.47		-		1,715.71		-	10,723.17		423.19		-	
31	Financial Transmission Rights Transaction	55500-0034	-	-		-		-		-	-		-		-	
<b>Subtotal</b>			<b>151,263.82</b>	<b>643,288</b>	<b>801,513.57</b>	<b>643,288</b>	<b>(707,274.63)</b>	<b>121,629</b>	<b>152,669.25</b>	<b>121,629</b>	<b>(134,718.98)</b>	<b>112,189.22</b>	<b>89,263</b>	<b>37,656.75</b>	<b>89,263</b>	<b>(34,397.25)</b>
<b>RSG &amp; Make Whole Payments</b>																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	1,464.96	898.31		-		171.11		-	1,069.42		42.20		-	
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13.55)	-		(8.31)		-		(1.58)	(9.89)		-		(0.39)	
	Real Time Price Volatility Make Whole Payment	55500-0057	(20,320.16)	-		(12,460.32)		-		(2,373.39)	(14,833.72)		-		(585.41)	
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	25,428.61	15,592.82		-		2,970.06		-	18,562.89		732.58		-	
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-	-		-		-		-	-		-		-	
<b>Subtotal</b>			<b>6,559.86</b>	<b>643,288</b>	<b>16,491.14</b>	<b>643,288</b>	<b>(12,468.63)</b>	<b>121,629</b>	<b>3,141.17</b>	<b>121,629</b>	<b>(2,374.98)</b>	<b>4,788.70</b>	<b>89,263</b>	<b>774.79</b>	<b>89,263</b>	<b>(585.80)</b>
<b>RNU &amp; Misc Charges</b>																
20	Real Time Miscellaneous	55500-0042	(39,895.32)	-		(24,463.81)		-		(4,659.77)	(29,123.58)		-		(1,149.36)	
21	Real Time Net Inadvertent Distribution	55500-0044	(7,025.21)	-		(4,307.86)		-		(820.54)	(5,128.40)		-		(202.39)	
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	137,191.66	84,125.93		-		16,023.99		-	100,149.91		3,952.41		-	
26	Real Time Uninstructed Deviation	55500-0048	-	-		-		-		-	-		-		-	
<b>Subtotal</b>			<b>90,271.13</b>	<b>643,288</b>	<b>84,125.93</b>	<b>643,288</b>	<b>(28,771.67)</b>	<b>121,629</b>	<b>16,023.99</b>	<b>121,629</b>	<b>(5,480.32)</b>	<b>65,897.92</b>	<b>89,263</b>	<b>3,952.41</b>	<b>89,263</b>	<b>(1,351.75)</b>

MINNESOTA POWER		Account	May 2015		FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																	
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	-										-				
<b>Subtotal</b>			-		<b>643,288</b>	-	<b>643,288</b>	-	<b>121,629</b>	-	<b>121,629</b>	-	-	<b>89,263</b>	-	<b>89,263</b>	-
<b>ASM Charge Types (12 Other)</b>																	
	Day Ahead Regulation Amount	55500-0062	(43,456.38)			-	(26,647.45)		-		(5,075.71)	(31,723.16)		-			(1,251.95)
	Day Ahead Spinning Reserve Amount	55500-0063	(17,831.98)			-	(10,934.57)		-		(2,082.78)	(13,017.35)		-			(513.73)
	Day Ahead Supplemental Reserve Amount	55500-0064	-			-	-		-		-	-		-			-
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-			-	-		-		-	-		-			-
	Net Regulation Adjustment Amount	55500-0068	(484.86)			-	(297.32)		-		(56.63)	(353.95)		-			(13.97)
	Real Time Regulation Amount	55500-0070	2,189.82			1,342.80	-		255.77		-	1,598.57		63.09			-
	Regulation Reserve Cost Distribution Amount	55500-0071	23,855.66			14,628.29	-		2,786.34		-	17,414.63		687.27			-
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	4,582.61			2,810.06	-		535.25		-	3,345.31		132.02			-
	Real Time Spinning Reserve Amount	55500-0072	1,545.67			947.80	-		180.53		-	1,128.34		44.53			-
	Spinning Reserve Cost Distribution Amount	55500-0073	18,075.42			11,083.85	-		2,111.21		-	13,195.06		520.74			-
	Real Time Supplemental Reserve Amount	55500-0074	0.61			0.37	-		0.07		-	0.45		0.02			-
	Supplemental Reserve Cost Distribution Amount	55500-0075	6,379.50			3,911.91	-		745.13		-	4,657.04		183.79			-
<b>Subtotal</b>			<b>(5,143.93)</b>		<b>643,288</b>	<b>34,725.08</b>	-	<b>(37,879.34)</b>	<b>121,629</b>	<b>6,614.30</b>	-	<b>(7,215.11)</b>	<b>(3,755.07)</b>	-	<b>1,631.46</b>	-	<b>(1,779.65)</b>
<b>Grand Total</b>			<b>(735,729.43)</b>		<b>643,288</b>	<b>2,111,783.43</b>	<b>643,288</b>	<b>(950,118.06)</b>	<b>121,629</b>	<b>402,244.46</b>	<b>121,629</b>	<b>(180,974.87)</b>	<b>1,382,934.97</b>	<b>89,263</b>	<b>87,107.76</b>	<b>89,263</b>	<b>(45,924.47)</b>

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

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

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

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

MINNESOTA POWER		Account	May 2015		MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales					
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		
<b>Day Ahead and Real Time Energy</b>																						
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050		5,180,173.37																			
Day Ahead Non-Asset Energy	55500-0027		(1,713,045.35)																			
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		(5,314,665.45)																			
Excessive Energy Amount	55500-0066		27,830.77																			
Non-Excessive Energy Amount	55500-0069		(246,685.33)																			
Real Time Non-Asset Energy	55500-0043		(55,975.67)																			
<b>Subtotal</b>			<b>(2,122,367.66)</b>		<b>74,390</b>								<b>54,316</b>						<b>236,341</b>			
<b>Day Ahead and Real Time Energy Loss</b>																						
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		927,590.75										17,748.34					207,465.17		-		
Day Ahead Financial Bilateral Transaction Loss	55500-0022		326,111.26										5,716.85					72,938.12		-		
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		(42,085.26)										-					-		(9,412.80)		
Real Time Distribution of Losses	55500-0041		(225,158.10)										-					-		(3,947.10)		
Real Time Financial Bilateral Transaction Loss	55500-0038		740.78										12.99					165.68		-		
<b>Subtotal</b>			<b>987,199.43</b>		<b>74,390</b>		<b>-</b>	<b>74,390</b>		<b>-</b>			<b>54,316</b>	<b>23,478.17</b>	<b>54,316</b>			<b>(4,752.35)</b>	<b>236,341</b>	<b>280,568.98</b>	<b>236,341</b>	<b>(59,771.72)</b>
<b>Virtual Energy</b>																						
Day Ahead Virtual Energy	55500-0030		-																			
Real Time Virtual Energy	55500-0049		-																			
<b>Subtotal</b>			<b>-</b>		<b>74,390</b>		<b>-</b>	<b>74,390</b>		<b>-</b>			<b>54,316</b>	<b>-</b>	<b>54,316</b>			<b>-</b>	<b>236,341</b>	<b>-</b>	<b>236,341</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																						
Day Ahead Market Administration (Schedule 17)	55500-0020		138,629.71										2,430.23					31,005.96		-		
Real Time Market Administration (Schedule 17)	55500-0036		11,636.89										204.00					2,602.71		-		
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		6,221.32										109.06					1,391.46		-		
<b>Subtotal</b>			<b>156,487.92</b>		<b>74,390</b>		<b>-</b>	<b>74,390</b>		<b>-</b>			<b>54,316</b>	<b>2,743.29</b>	<b>54,316</b>			<b>-</b>	<b>236,341</b>	<b>35,000.13</b>	<b>236,341</b>	<b>-</b>

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Congestion, FTRs & ARRs

	Account Number	May 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	(340,085.81)																
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(76,714.75)																
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	548,765.16								9,620.05				122,736.95				
Real Time Financial Bilateral Transaction Congestion	55500-0037	4,524.43								79.31				1,011.94				
Auction Revenue Rights Transaction Amount	55500-0058	(672,652.43)																
Financial Transmission Rights Annual Transaction Amount	55500-0059	668,456.65								11,718.28				149,507.18				
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	53,275.48								933.94				11,915.61				
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(60,945.23)																
Financial Transmission Rights Hourly Allocation	55500-0032	15,788.87								276.78				3,531.34				
Financial Transmission Rights Monthly Allocation	55500-0033	(3,837.83)																
Financial Transmission Rights Yearly Allocation	55500-0035	-																
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(1,599.89)																
FTR Guarantee Uplift Amount	55500-0055	1,599.89								28.05				357.83				
Financial Transmission Rights Monthly Transaction Amount	55500-0056	14,689.28								257.51				3,285.41				
Financial Transmission Rights Transaction	55500-0034	-																
<b>Subtotal</b>		<b>151,263.82</b>	<b>74,390</b>	<b>-</b>	<b>74,390</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>54,316</b>	<b>22,913.93</b>	<b>54,316</b>	<b>(20,930.53)</b>	<b>236,341</b>	<b>292,346.25</b>	<b>236,341</b>	<b>(258,514.55)</b>	

RSG & Make Whole Payments

Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	1,464.96								25.68				327.65				
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(13.55)																
Real Time Price Volatility Make Whole Payment	55500-0057	(20,320.16)																
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	25,428.61								445.77				5,687.37				
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-																
<b>Subtotal</b>		<b>6,559.86</b>	<b>74,390</b>	<b>-</b>	<b>74,390</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>54,316</b>	<b>471.45</b>	<b>54,316</b>	<b>(356.46)</b>	<b>236,341</b>	<b>6,015.02</b>	<b>236,341</b>	<b>(4,547.84)</b>	

RNU & Misc Charges

Real Time Miscellaneous	55500-0042	(39,895.32)																
Real Time Net Inadvertent Distribution	55500-0044	(7,025.21)																
Real Time Revenue Neutrality Uplift Amount	55500-0045	137,191.66								2,405.02				30,684.32				
Real Time Uninstructed Deviation	55500-0048	-																
<b>Subtotal</b>		<b>90,271.13</b>	<b>74,390</b>	<b>-</b>	<b>74,390</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>54,316</b>	<b>2,405.02</b>	<b>54,316</b>	<b>(822.53)</b>	<b>236,341</b>	<b>30,684.32</b>	<b>236,341</b>	<b>(10,494.26)</b>	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Account Number	May 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																	
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	-															-
<b>Subtotal</b>		-	<b>74,390</b>	-	<b>74,390</b>	-	-	-	-	<b>54,316</b>	-	<b>54,316</b>	-	<b>236,341</b>	-	<b>236,341</b>	-
<b>ASM Charge Types (12 Other)</b>																	
Day Ahead Regulation Amount	55500-0062	(43,456.38)									-		(761.81)			-	(9,719.46)
Day Ahead Spinning Reserve Amount	55500-0063	(17,831.98)									-		(312.60)			-	(3,988.31)
Day Ahead Supplemental Reserve Amount	55500-0064	-									-		-			-	-
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-									-		-			-	-
Net Regulation Adjustment Amount	55500-0068	(484.86)									-		(8.50)			-	(108.44)
Real Time Regulation Amount	55500-0070	2,189.82									<b>38.39</b>		-		<b>489.78</b>		-
Regulation Reserve Cost Distribution Amount	55500-0071	23,855.66									<b>418.20</b>		-		<b>5,335.56</b>		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	4,582.61									<b>80.33</b>		-		<b>1,024.95</b>		-
Real Time Spinning Reserve Amount	55500-0072	1,545.67									<b>27.10</b>		-		<b>345.70</b>		-
Spinning Reserve Cost Distribution Amount	55500-0073	18,075.42									<b>316.87</b>		-		<b>4,042.75</b>		-
Real Time Supplemental Reserve Amount	55500-0074	0.61									<b>0.01</b>		-		<b>0.14</b>		-
Supplemental Reserve Cost Distribution Amount	55500-0075	6,379.50									<b>111.83</b>		-		<b>1,426.84</b>		-
<b>Subtotal</b>		<b>(5,143.93)</b>	-	-	-	-	-	-	-	-	<b>992.73</b>	-	<b>(1,082.91)</b>	-	<b>12,665.72</b>	-	<b>(13,816.21)</b>
<b>Grand Total</b>		<b>(735,729.43)</b>	<b>74,390</b>	-	<b>74,390</b>	-	-	-	-	<b>54,316</b>	<b>53,004.59</b>	<b>54,316</b>	<b>(27,944.78)</b>	<b>236,341</b>	<b>657,280.43</b>	<b>236,341</b>	<b>(347,144.58)</b>

MINNESOTA POWER		Account	June 2015	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																
1a	Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050	(1,626,572.26)								-					
5	Day Ahead Non-Asset Energy	55500-0027	(862,396.52)								-					
13a	Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050	2,110,076.22								-					
	Excessive Energy Amount	55500-0066	51,067.78								-					
	Non-Excessive Energy Amount	55500-0069	355,257.19								-					
22	Real Time Non-Asset Energy	55500-0043	(112,073.11)								-					
<b>Subtotal</b>			<b>(84,640.70)</b>	<b>552,283</b>	<b>981,322.31</b>		<b>122,205</b>	<b>215,412.21</b>			<b>1,196,734.52</b>	<b>33,032</b>				
<b>Day Ahead and Real Time Energy Loss</b>																
1c	Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050	939,663.72		568,682.37	-		124,832.72			693,515.09		11,433.69			-
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	347,596.90		210,921.80	-		46,299.91			257,221.71		4,024.79			-
13c	Real Time Loss	44700-0000 or 55500-0000 or 55500-0050	(178,821.80)		-	(108,222.55)		-		(23,756.17)	(131,978.72)		-			(2,175.88)
14	Real Time Distribution of Losses	55500-0041	(233,942.21)		-	(141,956.13)		-		(31,161.10)	(173,117.24)		-			(2,708.79)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	-		-	-		-		-	-		-			-
<b>Subtotal</b>			<b>874,496.61</b>	<b>552,283</b>	<b>779,604.17</b>	<b>552,283</b>	<b>(250,178.68)</b>	<b>122,205</b>	<b>171,132.62</b>	<b>122,205</b>	<b>(54,917.27)</b>	<b>645,640.84</b>	<b>33,032</b>	<b>15,458.47</b>	<b>33,032</b>	<b>(4,884.67)</b>
<b>Virtual Energy</b>																
12	Day Ahead Virtual Energy	55500-0030	-		-	-		-		-	-					
27	Real Time Virtual Energy	55500-0049	-		-	-		-		-	-					
<b>Subtotal</b>			<b>-</b>	<b>552,283</b>	<b>-</b>	<b>552,283</b>	<b>-</b>	<b>122,205</b>	<b>-</b>	<b>122,205</b>	<b>-</b>	<b>-</b>	<b>33,032</b>	<b>-</b>	<b>33,032</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	125,100.13		75,910.76	-		16,663.34			92,574.10		1,448.52			-
19	Real Time Market Administration (Schedule 17)	55500-0036	12,246.35		7,431.09	-		1,631.21			9,062.30		141.80			-
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	5,105.82		3,098.21	-		680.10			3,778.31		59.12			-
<b>Subtotal</b>			<b>142,452.30</b>	<b>552,283</b>	<b>86,440.06</b>	<b>552,283</b>	<b>-</b>	<b>122,205</b>	<b>18,974.65</b>	<b>122,205</b>	<b>-</b>	<b>105,414.70</b>	<b>33,032</b>	<b>1,649.44</b>	<b>33,032</b>	<b>-</b>



MINNESOTA POWER		Account	June 2015	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																
1b	Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	125,686.81	76,065.37		-		16,697.28			-	92,762.65		1,529.34		-
13b	Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(15,893.28)	-		(9,618.58)		-			(2,111.39)	(11,729.97)		-		(193.39)
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	569,577.02	345,619.34		-		75,867.66			-	421,486.99		6,595.07		-
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	-	-		-		-			-	-		-		-
	Auction Revenue Rights Transaction Amount	55500-0058	(192,548.92)	-		(116,838.68)		-			(25,647.52)	(142,486.20)		-		(2,229.50)
	Financial Transmission Rights Annual Transaction Amount	55500-0059	282,534.72	171,442.07		-		37,633.62			-	209,075.69		3,271.44		-
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	12,122.28	7,355.80		-		1,614.69			-	8,970.49		140.36		-
	Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(57,432.89)	-		(34,850.28)		-			(7,650.06)	(42,500.34)		-		(665.01)
28	Financial Transmission Rights Hourly Allocation	55500-0032	(355,457.21)	-		(215,691.44)		-			(47,346.90)	(263,038.34)		-		(4,115.80)
30	Financial Transmission Rights Monthly Allocation	55500-0033	(6,919.15)	-		(4,198.54)		-			(921.63)	(5,120.17)		-		(80.12)
32	Financial Transmission Rights Yearly Allocation	55500-0035	-	-		-		-			-	-		-		-
	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(638.91)	-		(387.69)		-			(85.10)	(472.79)		-		(7.40)
	FTR Guarantee Uplift Amount	55500-0055	638.91	387.69		-		85.10			-	472.79		7.40		-
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	-	-		-		-			-	-		-		-
31	Financial Transmission Rights Transaction	55500-0034	-	-		-		-			-	-		-		-
<b>Subtotal</b>			<b>361,669.38</b>	<b>552,283</b>	<b>600,870.27</b>	<b>552,283</b>	<b>(381,585.20)</b>	<b>122,205</b>	<b>131,898.35</b>	<b>122,205</b>	<b>(83,762.61)</b>	<b>267,420.81</b>	<b>33,032</b>	<b>11,543.61</b>	<b>33,032</b>	<b>(7,291.21)</b>
<b>RSG &amp; Make Whole Payments</b>																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	5,243.27	3,181.62		-		698.40			-	3,880.02		60.71		-
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(56.51)	-		(34.29)		-			(7.53)	(41.82)		-		(0.65)
	Real Time Price Volatility Make Whole Payment	55500-0057	(18,187.96)	-		(11,036.45)		-			(2,422.64)	(13,459.09)		-		(210.60)
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	36,198.05	21,964.98		-		4,821.58			-	26,786.56		419.13		-
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-	-		-		-			-	-		-		-
<b>Subtotal</b>			<b>23,196.85</b>	<b>552,283</b>	<b>25,146.59</b>	<b>552,283</b>	<b>(11,070.74)</b>	<b>122,205</b>	<b>5,519.98</b>	<b>122,205</b>	<b>(2,430.16)</b>	<b>17,165.67</b>	<b>33,032</b>	<b>479.84</b>	<b>33,032</b>	<b>(211.25)</b>
<b>RNU &amp; Misc Charges</b>																
20	Real Time Miscellaneous	55500-0042	4,193.65	2,544.71		-		558.59			-	3,103.30		48.56		-
21	Real Time Net Inadvertent Distribution	55500-0044	2,658.53	1,613.20		-		354.12			-	1,967.31		30.78		-
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	126,707.64	76,886.20		-		16,877.46			-	93,763.65		1,467.13		-
26	Real Time Uninstructed Deviation	55500-0048	-	-		-		-			-	-		-		-
<b>Subtotal</b>			<b>133,559.82</b>	<b>552,283</b>	<b>81,044.10</b>	<b>552,283</b>	<b>-</b>	<b>122,205</b>	<b>17,790.17</b>	<b>122,205</b>	<b>-</b>	<b>98,834.27</b>	<b>33,032</b>	<b>1,546.47</b>	<b>33,032</b>	<b>-</b>

MINNESOTA POWER		Account	June 2015	FPE Retail				FAC Resale				Subtotal FPE and FAC	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION		Number		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																
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	-								-					
<b>Subtotal</b>			-	<b>552,283</b>	-	<b>552,283</b>	-	<b>122,205</b>	-	<b>122,205</b>	-	-	<b>33,032</b>	-	<b>33,032</b>	
<b>ASM Charge Types (12 Other)</b>																
	Day Ahead Regulation Amount	55500-0062	(27,629.40)	-		(16,765.52)		-		(3,680.24)	(20,445.76)		-		(319.92)	
	Day Ahead Spinning Reserve Amount	55500-0063	(23,049.50)	-		(13,986.44)		-		(3,070.19)	(17,056.63)		-		(266.89)	
	Day Ahead Supplemental Reserve Amount	55500-0064	-	-		-		-		-	-		-		-	
	Contingency Reserve Deployment Failure Charge Amount	55500-0065	-	-		-		-		-	-		-		-	
	Net Regulation Adjustment Amount	55500-0068	1,179.89	<b>715.96</b>		-		<b>157.16</b>		-	873.12		<b>13.66</b>		-	
	Real Time Regulation Amount	55500-0070	(3,293.36)	-		(1,998.41)		-		(438.68)	(2,437.09)		-		(38.13)	
	Regulation Reserve Cost Distribution Amount	55500-0071	16,221.10	<b>9,842.96</b>		-		<b>2,160.65</b>		-	12,003.61		<b>187.82</b>		-	
	Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	4,745.56	<b>2,879.61</b>		-		<b>632.11</b>		-	3,511.71		<b>54.95</b>		-	
	Real Time Spinning Reserve Amount	55500-0072	5,876.60	<b>3,565.92</b>		-		<b>782.76</b>		-	4,348.68		<b>68.04</b>		-	
	Spinning Reserve Cost Distribution Amount	55500-0073	18,090.70	<b>10,977.44</b>		-		<b>2,409.68</b>		-	13,387.12		<b>209.47</b>		-	
	Real Time Supplemental Reserve Amount	55500-0074	-	-		-		-		-	-		-		-	
	Supplemental Reserve Cost Distribution Amount	55500-0075	5,401.93	<b>3,277.89</b>		-		<b>719.54</b>		-	3,997.43		<b>62.55</b>		-	
<b>Subtotal</b>			<b>(2,456.48)</b>	<b>552,283</b>	<b>31,259.78</b>	-	<b>(32,750.37)</b>	<b>122,205</b>	<b>6,861.90</b>	-	<b>(7,189.11)</b>	<b>(1,817.80)</b>	-	<b>596.50</b>	-	<b>(624.94)</b>
<b>Grand Total</b>			<b>1,448,277.78</b>	<b>552,283</b>	<b>2,585,687.27</b>	<b>552,283</b>	<b>(675,585.00)</b>	<b>122,205</b>	<b>567,589.89</b>	<b>122,205</b>	<b>(148,299.15)</b>	<b>2,329,393.01</b>	<b>33,032</b>	<b>31,274.33</b>	<b>33,032</b>	<b>(13,012.07)</b>

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

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

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

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

MINNESOTA POWER		Account	June 2015		MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales				
MISO MONTHLY ALLOCATION		Number			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	
<b>Day Ahead and Real Time Energy</b>																					
Day Ahead Asset Energy	44700-0000 or 55500-0000 or 55500-0050		(1,626,572.26)																		
Day Ahead Non-Asset Energy	55500-0027		(862,396.52)																		
Real Time Asset Energy	44700-0000 or 55500-0000 or 55500-0050		2,110,076.22																		
Excessive Energy Amount	55500-0066		51,067.78																		
Non-Excessive Energy Amount	55500-0069		355,257.19																		
Real Time Non-Asset Energy	55500-0043		(112,073.11)																		
<b>Subtotal</b>			<b>(84,640.70)</b>		<b>68,785</b>								<b>76,555</b>							<b>211,637</b>	
<b>Day Ahead and Real Time Energy Loss</b>																					
Day Ahead Loss	44700-0000 or 55500-0000 or 55500-0050		939,663.72										26,499.03					208,215.92			
Day Ahead Financial Bilateral Transaction Loss	55500-0022		347,596.90										9,327.95					77,022.45			
Real Time Loss	44700-0000 or 55500-0000 or 55500-0050		(178,821.80)																	(39,624.33)	
Real Time Distribution of Losses	55500-0041		(233,942.21)																	(51,838.22)	
Real Time Financial Bilateral Transaction Loss	55500-0038		-																	-	
<b>Subtotal</b>			<b>874,496.61</b>		<b>68,785</b>		<b>-</b>	<b>68,785</b>		<b>-</b>		<b>-</b>	<b>76,555</b>	<b>35,826.98</b>	<b>76,555</b>	<b>(11,320.84)</b>		<b>211,637</b>	<b>285,238.37</b>	<b>211,637</b>	<b>(91,462.55)</b>
<b>Virtual Energy</b>																					
Day Ahead Virtual Energy	55500-0030		-																		
Real Time Virtual Energy	55500-0049		-																		
<b>Subtotal</b>			<b>-</b>		<b>68,785</b>		<b>-</b>	<b>68,785</b>		<b>-</b>		<b>-</b>	<b>76,555</b>	<b>-</b>	<b>76,555</b>	<b>-</b>		<b>211,637</b>	<b>-</b>	<b>211,637</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																					
Day Ahead Market Administration (Schedule 17)	55500-0020		125,100.13										3,357.13					27,720.38			
Real Time Market Administration (Schedule 17)	55500-0036		12,246.35										328.64					2,713.61			
Financial Transmission Rights Market Administration (Schedule 16)	55500-0031		5,105.82										137.02					1,131.38			
<b>Subtotal</b>			<b>142,452.30</b>		<b>68,785</b>		<b>-</b>	<b>68,785</b>		<b>-</b>		<b>-</b>	<b>76,555</b>	<b>3,822.79</b>	<b>76,555</b>	<b>-</b>		<b>211,637</b>	<b>31,565.37</b>	<b>211,637</b>	<b>-</b>

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Congestion, FTRs & ARRs

	Account Number	June 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
Day Ahead Congestion	44700-0000 or 55500-0000 or 55500-0050	125,686.81									3,544.44				27,850.38			-
Real Time Congestion	44700-0000 or 55500-0000 or 55500-0050	(15,893.28)									-		(448.20)		-			(3,521.72)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021	569,577.02									15,284.91		-		126,210.04			-
Real Time Financial Bilateral Transaction Congestion	55500-0037	-									-		-		-			-
Auction Revenue Rights Transaction Amount	55500-0058	(192,548.92)									-		(5,167.16)		-			(42,666.06)
Financial Transmission Rights Annual Transaction Amount	55500-0059	282,534.72									7,581.97		-		62,605.62			-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060	12,122.28									325.31		-		2,686.12			-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061	(57,432.89)									-		(1,541.24)		-			(12,726.30)
Financial Transmission Rights Hourly Allocation	55500-0032	(355,457.21)									-		(9,538.89)		-			(78,764.19)
Financial Transmission Rights Monthly Allocation	55500-0033	(6,919.15)									-		(185.68)		-			(1,533.18)
Financial Transmission Rights Yearly Allocation	55500-0035	-									-		-		-			-
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(638.91)									-		(17.15)		-			(141.57)
FTR Guarantee Uplift Amount	55500-0055	638.91									17.15		-		141.57			-
Financial Transmission Rights Monthly Transaction Amount	55500-0056	-									-		-		-			-
Financial Transmission Rights Transaction	55500-0034	-									-		-		-			-
<b>Subtotal</b>		<b>361,669.38</b>	<b>68,785</b>	<b>-</b>	<b>68,785</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>76,555</b>	<b>26,753.77</b>	<b>76,555</b>	<b>(16,898.31)</b>	<b>211,637</b>	<b>219,493.74</b>	<b>211,637</b>	<b>(139,353.02)</b>	

RSG & Make Whole Payments

Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	5,243.27									140.71		-		1,161.83			-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(56.51)									-		(1.52)		-			(12.52)
Real Time Price Volatility Make Whole Payment	55500-0057	(18,187.96)									-		(488.08)		-			(4,030.19)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	36,198.05									971.39		-		8,020.97			-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	-									-		-		-			-
<b>Subtotal</b>		<b>23,196.85</b>	<b>68,785</b>	<b>-</b>	<b>68,785</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>76,555</b>	<b>1,112.10</b>	<b>76,555</b>	<b>(489.60)</b>	<b>211,637</b>	<b>9,182.80</b>	<b>211,637</b>	<b>(4,042.71)</b>	

RNU & Misc Charges

Real Time Miscellaneous	55500-0042	4,193.65									112.54		-		929.25			-
Real Time Net Inadvertent Distribution	55500-0044	2,658.53									71.34		-		589.09			-
Real Time Revenue Neutrality Uplift Amount	55500-0045	126,707.64									3,400.27		-		28,076.58			-
Real Time Uninstructed Deviation	55500-0048	-									-		-		-			-
<b>Subtotal</b>		<b>133,559.82</b>	<b>68,785</b>	<b>-</b>	<b>68,785</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>76,555</b>	<b>3,584.15</b>	<b>76,555</b>	<b>-</b>	<b>211,637</b>	<b>29,594.93</b>	<b>211,637</b>	<b>-</b>	

MINNESOTA POWER

MISO MONTHLY ALLOCATION

Account Number	June 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
		Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Grandfathered Charge Types</b>																	
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	-															-
<b>Subtotal</b>		-	<b>68,785</b>	-	<b>68,785</b>	-	-	-	-	<b>76,555</b>	-	<b>76,555</b>	-	<b>211,637</b>	-	<b>211,637</b>	-
<b>ASM Charge Types (12 Other)</b>																	
Day Ahead Regulation Amount	55500-0062	(27,629.40)									-		(741.45)				(6,122.28)
Day Ahead Spinning Reserve Amount	55500-0063	(23,049.50)									-		(618.55)				(5,107.44)
Day Ahead Supplemental Reserve Amount	55500-0064	-									-		-				-
Contingency Reserve Deployment Failure Charge Amount	55500-0065	-									-		-				-
Net Regulation Adjustment Amount	55500-0068	1,179.89									31.66		-		261.45		-
Real Time Regulation Amount	55500-0070	(3,293.36)									-		(88.38)		-		(729.76)
Regulation Reserve Cost Distribution Amount	55500-0071	16,221.10									435.30		-		3,594.36		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	4,745.56									127.35		-		1,051.55		-
Real Time Spinning Reserve Amount	55500-0072	5,876.60									157.70		-		1,302.17		-
Spinning Reserve Cost Distribution Amount	55500-0073	18,090.70									485.47		-		4,008.64		-
Real Time Supplemental Reserve Amount	55500-0074	-									-		-		-		-
Supplemental Reserve Cost Distribution Amount	55500-0075	5,401.93									144.96		-		1,196.99		-
<b>Subtotal</b>		<b>(2,456.48)</b>	-	-	-	-	-	-	-	-	<b>1,382.45</b>	-	<b>(1,448.38)</b>	-	<b>11,415.15</b>	-	<b>(11,959.47)</b>
<b>Grand Total</b>		<b>1,448,277.78</b>	<b>68,785</b>	-	<b>68,785</b>	-	-	-	-	<b>76,555</b>	<b>72,482.25</b>	<b>76,555</b>	<b>(30,157.13)</b>	<b>211,637</b>	<b>586,490.36</b>	<b>211,637</b>	<b>(246,817.75)</b>

MINNESOTA POWER MISO MONTHLY ALLOCATION		Account Number	July 2014 - June 2015	FPE Retail				FAC Resale				Subtotal FAC	MISO Non-Liquidation			
				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																
1a	Day Ahead Asset Energy	4470-0000 or 55500-0000 or 55500-0050	48,605,929.10									-				
5	Day Ahead Non-Asset Energy	55500-0027	(19,953,660.27)									-				
13a	Real Time Asset Energy	4470-0000 or 55500-0000 or 55500-0050	(2,586,883.35)									-				
	Excessive Energy Amount	55500-0066	472,804.17									-				
	Non-Excessive Energy Amount	55500-0069	211,213.76									-				
22	Real Time Non-Asset Energy	55500-0043	(2,233,893.13)									-				
<b>Subtotal</b>			<b>24,515,510.28</b>	<b>8,647,649</b>	<b>30,842,870</b>			<b>1,638,110</b>	<b>5,734,840</b>			<b>36,577,709.67</b>	<b>247,164</b>			
<b>Day Ahead and Real Time Energy Loss</b>																
1c	Day Ahead Loss	4470-0000 or 55500-0000 or 55500-0050	13,089,867.89		8,980,181.49		-		1,683,586.33		-	10,663,767.82		40,601.31		(44,195.75)
3	Day Ahead Financial Bilateral Transaction Loss	55500-0022	2,581,482.88		1,746,508.71		-		330,296.19		-	2,076,804.91		13,419.85		(6,601.45)
13c	Real Time Loss	4470-0000 or 55500-0000 or 55500-0050	(1,324,035.10)		-		(900,464.56)		-		(173,430.75)	(1,073,895.31)		-		(3,499.23)
14	Real Time Distribution of Losses	55500-0041	(4,978,982.43)		-		(3,437,663.51)		-		(640,962.00)	(4,078,625.51)		-		(9,195.46)
16	Real Time Financial Bilateral Transaction Loss	55500-0038	(5,969.50)		578.29		(4,898.32)		110.15		(872.01)	(5,081.89)		21.34		(0.62)
<b>Subtotal</b>			<b>9,362,363.74</b>	<b>8,647,649</b>	<b>10,727,268.49</b>	<b>8,647,649</b>	<b>(4,343,026.38)</b>	<b>1,638,110</b>	<b>2,013,992.67</b>	<b>1,638,110</b>	<b>(815,264.76)</b>	<b>7,582,970.02</b>	<b>247,164</b>	<b>54,042.51</b>	<b>247,164</b>	<b>(63,492.50)</b>
<b>Virtual Energy</b>																
12	Day Ahead Virtual Energy	55500-0030	-		-		-		-		-	-		-		-
27	Real Time Virtual Energy	55500-0049	-		-		-		-		-	-		-		-
<b>Subtotal</b>			<b>-</b>	<b>8,647,649</b>	<b>-</b>	<b>8,647,649</b>	<b>-</b>	<b>1,638,110</b>	<b>-</b>	<b>1,638,110</b>	<b>-</b>	<b>-</b>	<b>247,164</b>	<b>-</b>	<b>247,164</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																
4	Day Ahead Market Administration (Schedule 17)	55500-0020	1,667,040.71		1,141,354.76		-		213,937.31		-	1,355,292.07		5,442.36		(4,855.65)
19	Real Time Market Administration (Schedule 17)	55500-0036	128,646.30		87,806.20		-		16,505.63		-	104,311.83		477.05		(364.45)
29	Financial Transmission Rights Market Administration (Schedule 16)	55500-0031	76,705.72		52,609.72		-		9,853.58		-	62,463.31		238.35		(236.16)
<b>Subtotal</b>			<b>1,872,392.73</b>	<b>8,647,649</b>	<b>1,281,770.69</b>	<b>8,647,649</b>	<b>-</b>	<b>1,638,110</b>	<b>240,296.52</b>	<b>1,638,110</b>	<b>-</b>	<b>1,522,067.21</b>	<b>247,164</b>	<b>6,157.76</b>	<b>247,164</b>	<b>(5,456.27)</b>

MINNESOTA POWER		Account Number	July 2014 - June 2015	FPE Retail				FAC Resale				Subtotal FAC Cost/(Revenue)	MISO Non-Liquidation			
MISO MONTHLY ALLOCATION				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue		Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																
1b	Day Ahead Congestion	4470-0000 or 55500-0000	(294,306.65)		599,597.24	(797,198.64)		116,810.14		(143,585.89)	(224,377.15)		1,529.34		(13,623.79)	
13b	Real Time Congestion	4470-0000 or 55500-0000	(914,464.85)		159,675.53	(784,116.74)		28,178.03		(147,210.53)	(743,473.71)		-		(3,331.40)	
2	Day Ahead Financial Bilateral Transaction Congestion	55500-0021	4,125,947.32		2,783,797.80	-		527,999.36		-	3,311,797.16		22,404.66		(8,505.24)	
15	Real Time Financial Bilateral Transaction Congestion	55500-0037	(22,790.00)		3,009.25	(19,705.44)		573.19		(3,491.82)	(19,614.82)		130.35		(1.18)	
	Auction Revenue Rights Transaction Amount	55500-0058	(6,932,892.62)		-	(4,767,847.27)		-		(888,005.65)	(5,655,852.92)		-		(21,608.21)	
	Financial Transmission Rights Annual Transaction Amount	55500-0059	6,984,556.88		4,795,972.29	-		895,101.08		-	5,691,073.37		22,529.27		(21,416.40)	
	Auction Revenue Rights Infeasible Uplift Amount	55500-0060	446,588.54		306,651.57	-		56,873.60		-	363,525.18		1,675.20		(1,445.50)	
	Financial Transmission Rights Hourly Allocation	55500-0032	(781,967.01)		-	(537,382.39)		-		(99,927.87)	(637,310.27)		-		(2,420.80)	
28	Financial Transmission Rights Monthly Allocation	55500-0033	(1,575,197.06)		28,032.23	(1,091,791.66)		5,207.30		(213,317.30)	(1,271,869.43)		454.87		(4,161.54)	
30	Financial Transmission Rights Yearly Allocation	55500-0035	(80,318.23)		-	(55,365.99)		-		(10,310.45)	(65,676.45)		-		(190.68)	
32	Financial Transmission Rights Full Funding Guarantee Amount	55500-0054	(1,295.11)		71,839.71	(70,852.03)		12,723.14		(13,394.43)	316.39		-		(855.20)	
	FTR Guarantee Uplift Amount	55500-0055	98,210.52		89,472.81	(21,964.11)		16,927.21		(3,876.02)	80,559.89		53.49		(358.43)	
	Financial Transmission Rights Monthly Transaction Amount	55500-0056	189,254.58		136,781.47	(3,868.42)		24,535.54		(792.33)	156,656.26		423.19		(1,013.51)	
31	Financial Transmission Rights Transaction	55500-0034	-		-	-		-		-	-		-		-	
<b>Subtotal</b>			<b>1,158,656.18</b>	<b>8,647,649</b>	<b>8,974,829.90</b>	<b>8,647,649</b>	<b>(8,209,119.18)</b>	<b>1,638,110</b>	<b>1,684,928.60</b>	<b>1,638,110</b>	<b>(1,534,328.74)</b>	<b>916,310.59</b>	<b>247,164</b>	<b>49,200.36</b>	<b>247,164</b>	<b>(78,931.89)</b>
<b>RSG &amp; Make Whole Payments</b>																
10	Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028	482,798.48		335,542.64	-		61,971.94		-	397,514.58		102.92		(1,204.37)	
11	Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029	(12,851.66)		2,599.43	(11,692.05)		494.33		(2,064.90)	(10,663.19)		-		(15.57)	
	Real Time Price Volatility Make Whole Payment	55500-0057	(287,485.53)		-	(197,531.38)		-		(36,943.82)	(234,475.20)		-		(796.01)	
24	Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046	384,776.29		263,014.64	-		49,320.69		-	312,335.33		1,151.72		(1,114.84)	
25	Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047	(145.77)		-	(104.08)		-		(18.37)	(122.45)		-		-	
<b>Subtotal</b>			<b>567,091.81</b>	<b>8,647,649</b>	<b>601,156.72</b>	<b>8,647,649</b>	<b>(209,327.51)</b>	<b>1,638,110</b>	<b>111,786.97</b>	<b>1,638,110</b>	<b>(39,027.09)</b>	<b>464,589.09</b>	<b>247,164</b>	<b>1,254.63</b>	<b>247,164</b>	<b>(3,130.78)</b>
<b>RNU &amp; Misc Charges</b>																
20	Real Time Miscellaneous	55500-0042	(290,680.15)		3,552.56	(202,584.45)		736.45		(37,737.85)	(236,033.28)		48.56		(1,161.88)	
21	Real Time Net Inadvertent Distribution	55500-0044	(99,090.79)		49,977.72	(117,162.87)		8,893.89		(22,486.94)	(80,778.20)		30.78		(397.20)	
23	Real Time Revenue Neutrality Uplift Amount	55500-0045	1,945,074.15		1,333,830.28	-		251,845.23		-	1,585,675.52		5,419.54		(5,574.19)	
26	Real Time Uninstructed Deviation	55500-0048	-		-	-		-		-	-		-		-	
<b>Subtotal</b>			<b>1,555,303.21</b>	<b>8,647,649</b>	<b>1,387,360.56</b>	<b>8,647,649</b>	<b>(319,747.32)</b>	<b>1,638,110</b>	<b>261,475.57</b>	<b>1,638,110</b>	<b>(60,224.78)</b>	<b>1,268,864.04</b>	<b>247,164</b>	<b>5,498.88</b>	<b>247,164</b>	<b>(7,133.26)</b>
<b>Grandfathered Charge Types</b>																
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	-		-	-		-		-	-		-		-	
<b>Subtotal</b>			<b>-</b>	<b>8,647,649</b>	<b>-</b>	<b>8,647,649</b>	<b>-</b>	<b>1,638,110</b>	<b>-</b>	<b>1,638,110</b>	<b>-</b>	<b>-</b>	<b>247,164</b>	<b>-</b>	<b>247,164</b>	<b>-</b>

**MINNESOTA POWER  
MISO MONTHLY ALLOCATION**

	Account Number	July 2014 - June 2015	FPE Retail				FAC Resale				Subtotal FAC	MISO Non-Liquidation			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Cost/(Revenue)	Mwh	Cost	Mwh	Revenue
<b>ASM Charge Types (12 Other)</b>															
Day Ahead Regulation Amount	55500-0062	(408,237.91)		-		(278,683.59)		-		(52,322.35)	(331,005.95)		-		(1,571.87)
Day Ahead Spinning Reserve Amount	55500-0063	(234,245.37)		-		(159,990.64)		-		(30,158.25)	(190,148.89)		-		(780.62)
Day Ahead Supplemental Reserve Amount	55500-0064	(91.26)		23.07		(85.43)		4.20		(16.60)	(74.76)		-		(0.18)
Contingency Reserve Deployment Failure Charge Amount	55500-0065	287.55		201.99		-		36.15		-	238.14		-		(2.66)
Net Regulation Adjustment Amount	55500-0068	4,996.46		4,736.37		(1,301.97)		891.48		(250.85)	4,075.03		13.66		(31.54)
Real Time Regulation Amount	55500-0070	45,851.73		36,358.32		(4,060.94)		6,643.99		(802.65)	38,138.72		63.09		(244.05)
Regulation Reserve Cost Distribution Amount	55500-0071	300,775.63		206,585.49		-		38,598.01		-	245,183.50		875.09		(880.52)
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	79,765.60		54,832.64		-		10,248.45		-	65,081.09		186.97		(190.66)
Real Time Spinning Reserve Amount	55500-0072	(2,770.40)		13,893.63		(16,420.02)		2,713.30		(3,049.32)	(2,862.41)		112.57		(41.20)
Spinning Reserve Cost Distribution Amount	55500-0073	265,906.65		182,629.07		-		34,157.48		-	216,786.55		730.21		(797.63)
Real Time Supplemental Reserve Amount	55500-0074	19.18		33.66		(21.17)		6.79		(3.95)	15.32		0.02		(0.02)
Supplemental Reserve Cost Distribution Amount	55500-0075	111,221.85		76,747.35		-		14,268.90		-	91,016.25		246.34		(330.12)
<b>Subtotal</b>		<b>163,479.71</b>	<b>8,647,649</b>	<b>576,041.59</b>	<b>8,647,649</b>	<b>(460,563.76)</b>	<b>1,638,110</b>	<b>107,568.74</b>	<b>1,638,110</b>	<b>(86,603.97)</b>	<b>136,442.60</b>	<b>247,164</b>	<b>2,227.95</b>	<b>247,164</b>	<b>(4,871.07)</b>
<b>Grand Total</b>		<b>39,194,797.66</b>	<b>8,647,649</b>	<b>54,391,297.88</b>	<b>8,647,649</b>	<b>(13,541,784.15)</b>	<b>1,638,110</b>	<b>10,154,888.81</b>	<b>1,638,110</b>	<b>(2,535,449.34)</b>	<b>48,468,953.21</b>	<b>247,164</b>	<b>118,382.09</b>	<b>247,164</b>	<b>(163,015.79)</b>

1/ All Administration Charges reflected in the Retail column are now in the base cost of fuel (not recovered in the FAC)

2/ Accounts 5551-0051 through 5551-0053 are not recovered through the FAC

3/ Accounts 5551-0076 are not recovered through FPE for Resource Adequacy since it relates to capacity

NOTE:

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

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

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



MINNESOTA POWER MISO MONTHLY ALLOCATION		Account Number	July 2014 - June 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Day Ahead and Real Time Energy</b>																			
Day Ahead Asset Energy		4470-0000 or 55500-0000 or 55500-0050	48,605,929.10																
Day Ahead Non-Asset Energy		55500-0027	(19,953,660.27)																
Real Time Asset Energy		4470-0000 or 55500-0000 or 55500-0050	(2,586,883.35)																
Excessive Energy Amount		55500-0066	472,804.17																
Non-Excessive Energy Amount		55500-0069	211,213.76																
Real Time Non-Asset Energy		55500-0043	(2,233,893.13)																
<b>Subtotal</b>			<b>24,515,510.28</b>	<b>672,585</b>				<b>-</b>				<b>659,216</b>				<b>2,554,122</b>			
<b>Day Ahead and Real Time Energy Loss</b>																			
Day Ahead Loss		4470-0000 or 55500-0000 or 55500-0050	13,089,867.89		-		-		-		-		44,247.36		(159,656.09)		2,545,103.24		-
Day Ahead Financial Bilateral Transaction Loss		55500-0022	2,581,482.88		-		-		-		-		15,044.80		(30,329.40)		513,144.17		-
Real Time Loss		4470-0000 or 55500-0000 or 55500-0050	(1,324,035.10)		-		-		-		-		15,004.88		(5,848.12)		-		(255,797.32)
Real Time Distribution of Losses		55500-0041	(4,978,982.43)		-		-		-		-		78,182.02		(10,225.07)		-		(959,118.41)
Real Time Financial Bilateral Transaction Loss		55500-0038	(5,969.50)		-		-		-		-		271.92		(2.46)		199.02		(1,376.81)
<b>Subtotal</b>			<b>9,362,363.74</b>	<b>672,585</b>	<b>-</b>	<b>672,585</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>659,216</b>	<b>152,750.98</b>	<b>659,216</b>	<b>(206,061.15)</b>	<b>2,554,122</b>	<b>3,058,446.42</b>	<b>2,554,122</b>	<b>(1,216,292.54)</b>
<b>Virtual Energy</b>																			
Day Ahead Virtual Energy		55500-0030	-																
Real Time Virtual Energy		55500-0049	-																
<b>Subtotal</b>			<b>-</b>	<b>672,585</b>	<b>-</b>	<b>672,585</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>659,216</b>	<b>-</b>	<b>659,216</b>	<b>-</b>	<b>2,554,122</b>	<b>-</b>	<b>2,554,122</b>	<b>-</b>
<b>Schedule 16 &amp; 17 1/</b>																			
Day Ahead Market Administration (Schedule 17)		55500-0020	1,667,040.71		-		-		-		-		5,787.36		(21,008.25)		326,382.82		-
Real Time Market Administration (Schedule 17)		55500-0036	128,646.30		-		-		-		-		532.64		(1,686.14)		25,375.37		-
Financial Transmission Rights Market Administration (Schedule 16)		55500-0031	76,705.72		-		-		-		-		246.08		(1,003.34)		14,997.49		-
<b>Subtotal</b>			<b>1,872,392.73</b>	<b>672,585</b>	<b>-</b>	<b>672,585</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>659,216</b>	<b>6,566.07</b>	<b>659,216</b>	<b>(23,697.73)</b>	<b>2,554,122</b>	<b>366,755.68</b>	<b>2,554,122</b>	<b>-</b>

MINNESOTA POWER MISO MONTHLY ALLOCATION		Account Number	July 2014 - June 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
				Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>Congestion, FTRs &amp; ARRs</b>																			
Day Ahead Congestion	4470-0000 or 55500-0000		(294,306.65)		-		-		-		-		21,802.60		(14,477.43)		171,677.03		(236,837.24)
Real Time Congestion	4470-0000 or 55500-0000		(914,464.85)		-		-		-		-		16,467.31		(4,590.59)		39,692.82		(219,229.28)
Day Ahead Financial Bilateral Transaction Congestion	55500-0021		4,125,947.32		-		-		-		-		24,904.96		(43,560.31)		818,906.09		-
Real Time Financial Bilateral Transaction Congestion	55500-0037		(22,790.00)		-		-		-		-		1,462.58		(4.66)		1,075.05		(5,837.31)
Auction Revenue Rights Transaction Amount	55500-0058		(6,932,892.62)		-		-		-		-		115,779.58		(16,958.99)		-		(1,354,252.07)
Financial Transmission Rights Annual Transaction Amount	55500-0059		6,984,556.88		-		-		-		-		19,300.26		(93,579.35)		1,366,649.73		-
Auction Revenue Rights Infeasible Uplift Amount	55500-0060		446,588.54		-		-		-		-		1,259.25		(6,326.53)		87,900.94		-
Auction Revenue Rights Stage 2 Distribution Amount	55500-0061		(781,967.01)		-		-		-		-		13,667.30		(2,609.63)		-		(153,293.60)
Financial Transmission Rights Hourly Allocation	55500-0032		(1,575,197.06)		-		-		-		-		19,019.36		(9,795.24)		8,436.71		(317,281.79)
Financial Transmission Rights Monthly Allocation	55500-0033		(80,318.23)		-		-		-		-		1,336.14		(252.96)		-		(15,534.28)
Financial Transmission Rights Yearly Allocation	55500-0035		(82,670.14)		-		-		-		-		5,387.94		-		-		(18,615.16)
Financial Transmission Rights Full Funding Guarantee Amount	55500-0054		(1,295.11)		-		-		-		-		1,767.59		(5,022.17)		21,998.30		(19,500.01)
FTR Guarantee Uplift Amount	55500-0055		98,210.52		-		-		-		-		1,536.35		(1,719.96)		24,552.26		(6,413.09)
Financial Transmission Rights Monthly Transaction Amount	55500-0056		189,254.58		-		-		-		-		300.26		(5,055.02)		39,009.24		(1,065.85)
Financial Transmission Rights Transaction	55500-0034		-		-		-		-		-		-		-		-		-
<b>Subtotal</b>			<b>1,158,656.18</b>	<b>672,585</b>	<b>-</b>	<b>672,585</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>659,216</b>	<b>243,991.47</b>	<b>659,216</b>	<b>(203,952.84)</b>	<b>2,554,122</b>	<b>2,579,898.18</b>	<b>2,554,122</b>	<b>(2,347,859.68)</b>
<b>RSG &amp; Make Whole Payments</b>																			
Day Ahead Revenue Sufficiency Guarantee Distribution	55500-0028		482,798.48		-		-		-		-		166.39		(4,337.99)		90,556.95		-
Day Ahead Revenue Sufficiency Guarantee Make Whole Payment	55500-0029		(12,851.66)		-		-		-		-		329.83		(67.43)		713.77		(3,149.07)
Real Time Price Volatility Make Whole Payment	55500-0057		(287,485.53)		-		-		-		-		4,417.75		(844.30)		-		(55,787.77)
Real Time Revenue Sufficiency Guarantee First Pass Dist	55500-0046		384,776.29		-		-		-		-		1,417.17		(3,887.55)		74,874.46		-
Real Time Revenue Sufficiency Guarantee Make Whole Payment	55500-0047		(145.77)		-		-		-		-		9.50		-		-		(32.82)
<b>Subtotal</b>			<b>567,091.81</b>	<b>672,585</b>	<b>-</b>	<b>672,585</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>659,216</b>	<b>6,340.63</b>	<b>659,216</b>	<b>(9,137.28)</b>	<b>2,554,122</b>	<b>166,145.18</b>	<b>2,554,122</b>	<b>(58,969.66)</b>
<b>RNU &amp; Misc Charges</b>																			
Real Time Miscellaneous	55500-0042		(290,680.15)		-		-		-		-		2,183.08		(778.86)		1,247.10		(56,184.87)
Real Time Net Inadvertent Distribution	55500-0044		(99,090.79)		-		-		-		-		3,144.39		(993.28)		13,003.71		(33,100.99)
Real Time Revenue Neutrality Uplift Amount	55500-0045		1,945,074.15		-		-		-		-		5,805.29		(25,830.27)		379,578.26		-
Real Time Uninstructed Deviation	55500-0048		-		-		-		-		-		-		-		-		-
<b>Subtotal</b>			<b>1,555,303.21</b>	<b>672,585</b>	<b>-</b>	<b>672,585</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>659,216</b>	<b>11,132.76</b>	<b>659,216</b>	<b>(27,602.41)</b>	<b>2,554,122</b>	<b>393,829.07</b>	<b>2,554,122</b>	<b>(89,285.86)</b>
<b>Grandfathered Charge Types</b>																			
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		-		-		-		-		-		-		-		-		-
<b>Subtotal</b>			<b>-</b>	<b>672,585</b>	<b>-</b>	<b>672,585</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>659,216</b>	<b>-</b>	<b>659,216</b>	<b>-</b>	<b>2,554,122</b>	<b>-</b>	<b>2,554,122</b>	<b>-</b>

**MINNESOTA POWER  
MISO MONTHLY ALLOCATION**

	Account Number	July 2014 - June 2015	MISO - Liquidation				Others - Liquidation				Others - Non-Liquidation				Contract Sales			
			Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue	Mwh	Cost	Mwh	Revenue
<b>ASM Charge Types (12 Other)</b>																		
Day Ahead Regulation Amount	55500-0062	(408,237.91)		-		-		-		-		4,827.47		(1,503.26)		-		(78,984.30)
Day Ahead Spinning Reserve Amount	55500-0063	(234,245.37)		-		-		-		-		3,415.63		(931.15)		-		(45,800.34)
Day Ahead Supplemental Reserve Amount	55500-0064	(91.26)		-		-		-		-		1.39		(0.61)		6.21		(23.31)
Contingency Reserve Deployment Failure Charge Amount	55500-0065	287.55		-		-		-		-		-		(4.99)		57.06		-
Net Regulation Adjustment Amount	55500-0068	4,996.46		-		-		-		-		51.90		(67.92)		1,336.58		(381.25)
Real Time Regulation Amount	55500-0070	45,851.73		-		-		-		-		108.44		(683.18)		9,762.47		(1,293.76)
Regulation Reserve Cost Distribution Amount	55500-0071	300,775.63		-		-		-		-		853.50		(3,841.10)		58,585.16		-
Real-Time Excessive Deficient Deployment Charge Amount	55500-0067	79,765.60		-		-		-		-		207.68		(804.35)		15,284.86		-
Real Time Spinning Reserve Amount	55500-0072	(2,770.40)		-		-		-		-		517.48		(183.03)		4,177.57		(4,491.39)
Spinning Reserve Cost Distribution Amount	55500-0073	265,906.65		-		-		-		-		802.34		(3,572.51)		51,957.69		-
Real Time Supplemental Reserve Amount	55500-0074	19.18		-		-		-		-		0.82		(0.33)		9.26		(5.90)
Supplemental Reserve Cost Distribution Amount	55500-0075	111,221.85		-		-		-		-		256.80		(1,523.62)		21,556.21		-
<b>Subtotal</b>		<b>163,479.71</b>	<b>672,585</b>	<b>-</b>	<b>672,585</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>659,216</b>	<b>11,043.45</b>	<b>659,216</b>	<b>(13,116.04)</b>	<b>2,554,122</b>	<b>162,733.07</b>	<b>2,554,122</b>	<b>(130,980.25)</b>
<b>Grand Total</b>		<b>39,194,797.66</b>	<b>672,585</b>	<b>-</b>	<b>672,585</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>659,216</b>	<b>431,825.37</b>	<b>659,216</b>	<b>(483,567.45)</b>	<b>2,554,122</b>	<b>6,727,807.61</b>	<b>2,554,122</b>	<b>(3,843,388.00)</b>

## Attachment 10

### **Minnesota Power's July 2014 through June 2015 ASM Cost and Benefit Compliance Filing**

#### **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 8 generating resources that are qualified to supply energy, regulation, and spinning reserves service for MISO. Minnesota Power can fully utilize these resources for energy and spinning reserves at 100% utilization within the ASM. Under normal operating conditions Minnesota Power has the potential of carrying approximately 45MW 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 21MW. Under ASM, Minnesota Power can currently clear up to approximately 45MW 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 FCA 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 cost of \$29,296.87 in July 2014 through June 2015. The Spinning Reserve costs and revenues are provided in Attachment 10-A. The true benefit of ASM Spinning Reserves is far greater.

#### **Supplemental Reserves**

Minnesota Power's cost allocation for supplemental reserves was \$111,914.38 for July 2014 through June 2015. 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 Attachment 10-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 provided a net benefit of \$63,231.29 in July 2014 through June 2015. The Regulation costs and revenues are provided in Attachment 10-A. The true benefit of ASM Regulation is far greater.

### **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. Attachment 10-A provides the July 2014 through June 2015 summary of ASM hourly charges which has provided a net cost of \$161,919.66. 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 July 2014 through June 2015, a net cost of \$115,477.84 was allocated to the Retail FCA.

Attachment 10-B provides a summary of July 2014 through June 2015 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 July 2014 through June 2015.

**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. Attachment 10-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 July 2014 through June 2015, the Schedule 17 rate averaged \$0.07337 for an average monthly billing of \$156,071.78.

**Daily Detail / Negative Benefits**

Attachment 10-D provides the daily details supporting the monthly and quarterly benefits shown in Attachment 10-A. For the reporting period, 256 days or 70% show a net negative benefit. With the exception of 34 days, the negative benefit was not caused by Contingency Reserve Deployment Failure Charges (CRDFC) or Real Time Excessive Deficient Energy Deployment Charges (EDED). The negative benefits appear 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 negative benefits 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 July 2014 through June 2015, Minnesota Power incurred \$287.55 in CRDFC. These charges occurred on 3 operating days.

As shown in Attachment 10-E, the Shortfall MWh totaled 7.2 for an average cost of \$39.94 per MWh of shortfall. During all CRD events, Minnesota Power's generating units responded to the reserve deployments; however, in these few instances they fell short of delivering 100% of the energy requested.

**Real Time Excessive Deficient Energy Deployment Charge Amount (EDED)**

For the period of July 2014 through June 2015, Minnesota Power incurred \$78,916.23 in EDED as shown in Attachment 10-D. The majority of the instances when EDED occurs are during start-up, shut downs, set point deviations or when the unit is having equipment problems and the unit is not considered dispatchable by MISO.

Summary of 12 ASM Charge Types																	
	July '14	August '14	September '14	3rd Quarter '14 Total	October '14	November '14	December '14	4th Quarter '14 Total	January '15	February '15	March '15	1st Quarter '15 Total	April '15	May '15	June '15	2nd Quarter '15 Total	Period-to-date Total
Day Ahead Regulation Amount	\$ (57,944.04)	#####	\$ (29,742.52)	\$ (107,391.61)	\$ (12,460.77)	\$ (34,837.68)	\$ (53,345.13)	\$ (100,643.58)	\$ (31,708.24)	\$ (29,729.29)	\$ (43,297.70)	\$ (104,735.23)	\$ (26,760.99)	\$ (39,244.94)	\$ (27,666.20)	\$ (93,672.13)	\$ (406,442.55)
Real Time Regulation Amount	\$ 13,703.76	\$ 5,546.70	\$ 9,013.95	\$ 28,264.41	\$ (1,296.26)	\$ 1,993.75	\$ 2,576.05	\$ 3,273.54	\$ 574.47	\$ 851.26	\$ 7,706.42	\$ 9,132.15	\$ 1,421.46	\$ (1,178.50)	\$ (55.95)	\$ 187.01	\$ 40,857.11
Regulation Cost Distribution Amount	\$ 23,083.47	\$ 21,378.37	\$ 25,596.52	\$ 70,058.36	\$ 34,582.16	\$ 37,526.38	\$ 26,353.94	\$ 98,462.48	\$ 21,011.83	\$ 23,579.97	\$ 27,983.13	\$ 72,574.93	\$ 22,331.00	\$ 22,226.06	\$ 16,701.32	\$ 61,258.38	\$ 302,354.15
<b>Regulation SubTotal</b>	<b>\$ (21,156.81)</b>	<b>\$ 7,220.02</b>	<b>\$ 4,867.95</b>	<b>\$ (9,068.84)</b>	<b>\$ 20,825.13</b>	<b>\$ 4,682.45</b>	<b>\$ (24,415.14)</b>	<b>\$ 1,092.44</b>	<b>\$ (10,121.94)</b>	<b>\$ (5,298.06)</b>	<b>\$ (7,608.15)</b>	<b>\$ (23,028.15)</b>	<b>\$ (3,008.53)</b>	<b>\$ (18,197.38)</b>	<b>\$ (11,020.83)</b>	<b>\$ (32,226.74)</b>	<b>\$ (63,231.29)</b>
Day Ahead Spinning Reserve Amount	\$ (21,531.52)	#####	\$ (14,531.86)	\$ (61,735.58)	\$ (16,983.51)	\$ (27,057.39)	\$ (21,166.34)	\$ (65,207.24)	\$ (18,777.96)	\$ (20,902.52)	\$ (15,895.70)	\$ (55,576.18)	\$ (10,872.07)	\$ (18,639.56)	\$ (23,395.74)	\$ (52,907.37)	\$ (235,426.37)
Real Time Spinning Reserve Amount	\$ 1,044.02	\$ (6,397.40)	\$ (2,799.29)	\$ (8,152.67)	\$ (997.86)	\$ (166.85)	\$ 3,140.73	\$ 1,976.02	\$ (9,501.22)	\$ 2,024.67	\$ 1,949.39	\$ (5,527.16)	\$ 938.47	\$ 1,539.29	\$ 5,964.69	\$ 8,442.45	\$ (3,261.36)
Spinning Reserve Cost Distribution Amount	\$ 17,945.84	\$ 20,262.38	\$ 23,699.48	\$ 61,907.70	\$ 33,445.52	\$ 33,936.88	\$ 20,898.60	\$ 88,281.00	\$ 17,764.28	\$ 20,639.94	\$ 21,955.74	\$ 60,359.96	\$ 19,708.64	\$ 18,714.55	\$ 19,012.75	\$ 57,435.94	\$ 267,984.60
<b>Spinning Reserve SubTotal</b>	<b>\$ (2,541.66)</b>	<b>\$ (11,807.22)</b>	<b>\$ 6,368.33</b>	<b>\$ (7,980.55)</b>	<b>\$ 15,464.15</b>	<b>\$ 6,712.64</b>	<b>\$ 2,872.99</b>	<b>\$ 25,049.78</b>	<b>\$ (10,514.90)</b>	<b>\$ 1,762.09</b>	<b>\$ 8,009.43</b>	<b>\$ (743.38)</b>	<b>\$ 9,775.04</b>	<b>\$ 1,614.28</b>	<b>\$ 1,581.70</b>	<b>\$ 12,971.02</b>	<b>\$ 29,296.87</b>
Day Ahead Supplemental Reserve Amount	\$ (23.90)	\$ -	\$ (60.46)	\$ (84.36)	\$ (44.15)	\$ -	\$ -	\$ (44.15)	\$ -	\$ -	\$ (5.00)	\$ (5.00)	\$ -	\$ -	\$ -	\$ -	\$ (133.51)
Real Time Supplemental Reserve Amount	\$ 10.90	\$ -	\$ 31.62	\$ 42.52	\$ 7.35	\$ (15.44)	\$ -	\$ (8.09)	\$ -	\$ -	\$ 2.20	\$ 2.20	\$ (2.00)	\$ -	\$ -	\$ (2.00)	\$ 34.63
Supplemental Reserve Cost Distribution Amount	\$ 9,948.68	\$ 9,441.45	\$ 11,611.24	\$ 31,001.37	\$ 21,313.97	\$ 9,811.50	\$ 7,158.76	\$ 38,284.23	\$ 5,510.46	\$ 9,975.77	\$ 7,776.22	\$ 23,262.45	\$ 7,291.99	\$ 6,221.65	\$ 5,951.57	\$ 19,465.21	\$ 112,013.26
<b>Supplemental Reserve SubTotal</b>	<b>\$ 9,935.68</b>	<b>\$ 9,441.45</b>	<b>\$ 11,582.40</b>	<b>\$ 30,959.53</b>	<b>\$ 21,277.17</b>	<b>\$ 9,796.06</b>	<b>\$ 7,158.76</b>	<b>\$ 38,231.99</b>	<b>\$ 5,510.46</b>	<b>\$ 9,975.77</b>	<b>\$ 7,773.42</b>	<b>\$ 23,259.65</b>	<b>\$ 7,289.99</b>	<b>\$ 6,221.65</b>	<b>\$ 5,951.57</b>	<b>\$ 19,463.21</b>	<b>\$ 111,914.38</b>
Contingency Reserve Deployment Failure Charge Amount	\$ -	\$ 235.04	\$ -	\$ 235.04	\$ -	\$ -	\$ -	\$ -	\$ 52.51	\$ -	\$ -	\$ 52.51	\$ -	\$ -	\$ -	\$ -	\$ 287.55
Real Time Excessive Deficient Energy Deployment Charge Amount	\$ 9,927.67	\$ 2,781.44	\$ 5,683.74	\$ 18,392.85	\$ 3,436.23	\$ 9,917.40	\$ 11,176.41	\$ 24,530.04	\$ 4,594.08	\$ 6,458.05	\$ 11,381.60	\$ 22,433.73	\$ 4,340.70	\$ 5,151.77	\$ 4,067.14	\$ 13,559.61	\$ 78,916.23
Net Regulation Adjustment Amount	\$ 1,046.18	\$ 896.85	\$ (1,209.19)	\$ 733.84	\$ 32.78	\$ 379.06	\$ 1,687.56	\$ 2,099.40	\$ 264.48	\$ (152.64)	\$ 762.57	\$ 874.41	\$ 249.01	\$ 33.29	\$ 745.97	\$ 1,028.27	\$ 4,735.92
<b>Other Charge SubTotal</b>	<b>\$ 10,973.85</b>	<b>\$ 3,913.33</b>	<b>\$ 4,474.55</b>	<b>\$ 19,361.73</b>	<b>\$ 3,469.01</b>	<b>\$ 10,296.46</b>	<b>\$ 12,863.97</b>	<b>\$ 26,629.44</b>	<b>\$ 4,911.07</b>	<b>\$ 6,305.41</b>	<b>\$ 12,144.17</b>	<b>\$ 23,360.65</b>	<b>\$ 4,589.71</b>	<b>\$ 5,185.06</b>	<b>\$ 4,813.11</b>	<b>\$ 14,587.88</b>	<b>\$ 83,939.70</b>
<b>Total</b>	<b>\$ (2,788.94)</b>	<b>\$ 8,767.58</b>	<b>\$ 27,293.23</b>	<b>\$ 33,271.87</b>	<b>\$ 61,035.46</b>	<b>\$ 31,487.61</b>	<b>\$ (1,519.42)</b>	<b>\$ 91,003.65</b>	<b>\$ (10,215.31)</b>	<b>\$ 12,745.21</b>	<b>\$ 20,318.87</b>	<b>\$ 22,848.77</b>	<b>\$ 18,646.21</b>	<b>\$ (5,176.39)</b>	<b>\$ 1,325.55</b>	<b>\$ 14,795.37</b>	<b>\$ 161,919.66</b>

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

Summary of MWh of ASM products Purchased and Supplied

	July '14	August '14	September '14	3rd Quarter '14 Total	October '14	November '14	December '14	4th Quarter '14 Total	January '15	February '15	March '15	1st Quarter '15 Total	April '15	May '15	June '15	2nd Quarter '15 Total	Period-to-date Total
Total MISO Reg Procured (MWh)	295,184.81	294,602.02	285,536.29	875,323.12	295,192.40	284,997.49	295,188.41	875,378.30	294,900.38	266,390.11	294,864.01	856,154.50	280,584.65	294,558.00	285,569.38	860,712.03	3,467,567.95
MP Share of Reg Procured by MISO	5,023.69	4,787.51	5,139.95	14,951.15	5,717.41	5,563.81	5,547.97	16,829.19	5,258.91	4,820.87	5,502.57	15,582.35	5,316.18	4,517.63	3,638.42	13,472.23	60,834.92
MP Supplied Reg Volume	4,800.57	1,493.18	2,053.40	8,347.15	1,264.30	3,052.87	6,338.85	10,656.02	3,940.80	3,979.25	3,943.22	11,863.27	3,572.65	4,512.23	4,047.14	12,132.02	42,998.46
<b>MP Net Buyer or (Seller) of Regulation</b>	<b>223.12</b>	<b>3,294.33</b>	<b>3,086.55</b>	<b>6,604.00</b>	<b>4,453.11</b>	<b>2,510.94</b>	<b>(790.88)</b>	<b>6,173.17</b>	<b>1,318.11</b>	<b>841.62</b>	<b>1,559.35</b>	<b>3,719.08</b>	<b>1,743.53</b>	<b>5.40</b>	<b>(408.72)</b>	<b>1,340.21</b>	<b>17,836.46</b>
Total MISO Spin Procured (MWh)	736,955.77	733,201.69	700,996.30	2,171,153.76	734,458.94	717,655.54	722,988.22	2,175,102.70	780,773.94	668,185.23	732,688.36	2,181,647.53	728,738.84	742,277.54	693,594.20	2,164,610.58	8,692,514.57
MP Share of Spin Procured by MISO	12,684.85	12,030.22	12,717.70	37,432.77	14,306.09	14,066.25	13,680.34	42,052.68	13,984.20	12,156.45	13,741.75	39,882.40	13,709.31	11,523.49	8,915.79	34,148.59	153,516.44
MP Supplied Spin Volume	17,580.71	25,556.35	12,698.12	55,835.18	8,962.79	11,108.61	11,022.21	31,093.61	12,946.78	11,483.17	8,545.36	32,975.31	5,758.22	8,299.76	9,325.54	23,383.52	143,287.62
<b>MP Net Buyer or (Seller) of Spinning Reserves</b>	<b>(4,895.86)</b>	<b>(13,526.13)</b>	<b>19.58</b>	<b>(18,402.41)</b>	<b>5,343.30</b>	<b>2,957.64</b>	<b>2,658.13</b>	<b>10,959.07</b>	<b>1,037.42</b>	<b>673.28</b>	<b>5,196.39</b>	<b>6,907.09</b>	<b>7,951.09</b>	<b>3,223.73</b>	<b>(409.75)</b>	<b>10,765.07</b>	<b>10,228.82</b>
Total MISO Supp Procured (MWh)	783,829.49	787,061.87	770,630.14	2,341,521.50	786,245.69	774,611.33	806,490.34	2,367,347.36	775,404.31	705,364.11	787,428.48	2,268,196.90	743,025.39	775,464.19	778,050.96	2,296,540.54	9,273,606.30
MP Share of Supp Procured by MISO	13,327.28	12,814.95	13,908.80	40,051.03	15,292.62	15,143.51	15,164.96	45,601.09	13,831.55	12,771.88	14,725.09	41,328.52	13,816.06	11,881.36	9,924.72	35,622.14	162,602.78
MP Supplied Supp Volume	-	-	-	-	1.32	58.81	-	60.13	-	-	-	-	3.00	-	-	3.00	63.13
<b>MP Net Buyer or (Seller) of Supplemental Reserves</b>	<b>13,327.28</b>	<b>12,814.95</b>	<b>13,908.80</b>	<b>40,051.03</b>	<b>15,291.30</b>	<b>15,084.70</b>	<b>15,164.96</b>	<b>45,540.96</b>	<b>13,831.55</b>	<b>12,771.88</b>	<b>14,725.09</b>	<b>41,328.52</b>	<b>13,813.06</b>	<b>11,881.36</b>	<b>9,924.72</b>	<b>35,619.14</b>	<b>162,539.65</b>

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



**Comparison of MISO Schedule 17 Rates and Amounts  
before and after the start of the ASM Market**

**Monthly Average Schedule 17 Amount**

April '05 through December '08	\$ 140,922.50
July '14 through June '15	\$ 156,071.78
Average Monthly Increase	\$ 15,149.28

**Monthly Average Schedule 17 Rate per MWh**

April '05 through December '08	\$ 0.07223
July '14 through June '15	\$ 0.07337
Average Monthly Increase	\$ 0.00114

NOTE: A negative number is a payment from MISO and a positive number is a payment to MISO

Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
7/1/2014	(2,136.72)	839.03	848.48	\$ (449.21)	(1,038.20)	144.02	573.80	\$ (320.38)	-	-	265.92	\$ 265.92	-	48.84	6.54	\$ 55.38	\$ (448.29)
7/2/2014	(949.98)	77.26	648.79	\$ (223.93)	(694.53)	67.55	546.44	\$ (80.54)	-	-	254.56	\$ 254.56	-	71.99	31.17	\$ 103.16	\$ 53.25
7/3/2014	(1,133.16)	(1,390.69)	706.36	\$ (1,817.49)	(551.61)	4.94	694.23	\$ 147.56	-	-	248.17	\$ 248.17	-	187.20	(70.71)	\$ 116.49	\$ (1,305.27)
7/4/2014	(2,080.47)	918.93	877.31	\$ (284.23)	(346.24)	2.77	339.53	\$ (3.94)	(23.90)	10.90	251.14	\$ 238.14	-	408.89	(244.43)	\$ 164.46	\$ 114.43
7/5/2014	(2,266.03)	642.39	1,091.14	\$ (532.50)	(392.16)	(0.73)	470.17	\$ 77.28	-	-	268.32	\$ 268.32	-	434.94	80.58	\$ 515.52	\$ 328.62
7/6/2014	(1,519.37)	(966.44)	852.98	\$ (1,632.83)	(772.76)	184.54	557.24	\$ (30.98)	-	-	245.74	\$ 245.74	-	1,010.92	(31.01)	\$ 979.91	\$ (438.16)
7/7/2014	(1,981.74)	23.87	605.30	\$ (1,352.57)	(1,389.18)	454.78	1,022.06	\$ 87.66	-	-	223.03	\$ 223.03	-	963.96	564.22	\$ 1,528.18	\$ 486.30
7/8/2014	(2,251.93)	186.54	777.44	\$ (1,287.95)	(1,061.19)	98.68	743.57	\$ (218.94)	-	-	391.15	\$ 391.15	-	350.75	(14.88)	\$ 335.87	\$ (779.87)
7/9/2014	(1,360.09)	(338.59)	770.58	\$ (928.10)	(678.83)	37.63	695.41	\$ 54.21	-	-	271.30	\$ 271.30	-	76.66	12.93	\$ 89.59	\$ (513.00)
7/10/2014	(1,741.76)	411.00	665.45	\$ (665.31)	(596.51)	29.17	593.29	\$ 25.95	-	-	247.37	\$ 247.37	-	253.36	66.86	\$ 320.22	\$ (71.77)
7/11/2014	(710.50)	(143.81)	655.85	\$ (198.46)	(612.29)	50.28	590.06	\$ 28.05	-	-	493.35	\$ 493.35	-	90.64	(4.76)	\$ 85.88	\$ 408.82
7/12/2014	(2,849.14)	876.06	611.19	\$ (1,361.89)	(634.85)	67.14	665.11	\$ 97.40	-	-	598.97	\$ 598.97	-	263.75	1.19	\$ 264.94	\$ (400.58)
7/13/2014	(2,901.86)	(968.57)	551.58	\$ (3,318.85)	(592.36)	(638.58)	466.40	\$ (764.54)	-	-	394.80	\$ 394.80	-	1,308.06	487.19	\$ 1,795.25	\$ (1,893.34)
7/14/2014	(2,175.05)	1,197.83	723.97	\$ (253.25)	(498.18)	(14.48)	429.48	\$ (83.18)	-	-	288.61	\$ 288.61	-	39.40	(42.36)	\$ (2.96)	\$ (50.78)
7/15/2014	(2,590.52)	856.23	820.27	\$ (914.02)	(470.45)	18.60	452.22	\$ 0.37	-	-	260.28	\$ 260.28	-	268.21	(20.21)	\$ 248.00	\$ (405.37)
7/16/2014	(2,798.60)	594.03	817.60	\$ (1,386.97)	(503.23)	21.68	535.36	\$ 53.81	-	-	261.76	\$ 261.76	-	509.22	39.13	\$ 548.35	\$ (523.05)
7/17/2014	(2,905.66)	907.89	680.01	\$ (1,317.76)	(711.37)	194.71	575.55	\$ 58.89	-	-	277.03	\$ 277.03	-	535.99	(18.13)	\$ 517.86	\$ (463.98)
7/18/2014	(3,453.21)	1,623.11	730.99	\$ (1,099.11)	(530.47)	(0.36)	588.00	\$ 57.17	-	-	285.48	\$ 285.48	-	529.64	3.66	\$ 533.30	\$ (223.16)
7/19/2014	(2,559.34)	1,030.39	908.20	\$ (620.75)	(478.63)	(159.53)	533.50	\$ (104.66)	-	-	283.95	\$ 283.95	-	334.63	(19.01)	\$ 315.62	\$ (125.84)
7/20/2014	(1,342.89)	84.11	831.89	\$ (426.89)	(663.71)	(94.32)	508.51	\$ (249.52)	-	-	281.94	\$ 281.94	-	350.94	64.42	\$ 415.36	\$ 20.89
7/21/2014	(975.20)	(16.13)	894.36	\$ (96.97)	(745.55)	159.37	562.56	\$ (23.62)	-	-	499.48	\$ 499.48	-	213.28	9.21	\$ 222.49	\$ 601.38
7/22/2014	(726.32)	176.87	1,103.11	\$ 553.66	(1,501.72)	(10.54)	1,116.41	\$ (395.85)	-	-	986.11	\$ 986.11	-	29.63	(8.36)	\$ 21.27	\$ 1,165.19
7/23/2014	(892.65)	295.13	686.62	\$ 89.10	(1,028.41)	74.90	716.17	\$ (237.34)	-	-	238.19	\$ 238.19	-	45.76	41.92	\$ 87.68	\$ 177.63
7/24/2014	(2,185.54)	2,496.60	428.97	\$ 740.03	(597.31)	70.07	436.19	\$ (91.05)	-	-	247.22	\$ 247.22	-	83.22	(73.03)	\$ 10.19	\$ 906.39
7/25/2014	(712.98)	64.71	676.21	\$ 27.94	(592.30)	(53.30)	483.31	\$ (162.29)	-	-	273.32	\$ 273.32	-	73.28	(66.98)	\$ 6.30	\$ 145.27
7/26/2014	(2,021.58)	(372.64)	792.99	\$ (1,601.23)	(855.80)	(20.56)	845.18	\$ (31.18)	-	-	324.94	\$ 324.94	-	137.63	26.65	\$ 164.28	\$ (1,143.19)
7/27/2014	(1,401.89)	1,198.42	764.07	\$ 560.60	(378.38)	(201.13)	283.80	\$ (295.71)	-	-	240.63	\$ 240.63	-	41.15	(0.94)	\$ 40.21	\$ 545.73
7/28/2014	(1,575.98)	730.07	728.80	\$ (117.11)	(620.81)	(103.56)	478.55	\$ (245.82)	-	-	255.63	\$ 255.63	-	219.62	36.43	\$ 256.05	\$ 148.75
7/29/2014	(2,094.21)	327.81	723.62	\$ (1,042.78)	(526.55)	(22.44)	406.18	\$ (142.81)	-	-	260.30	\$ 260.30	-	163.40	44.12	\$ 207.52	\$ (717.77)
7/30/2014	(1,383.41)	609.64	437.59	\$ (336.18)	(600.99)	53.42	455.08	\$ (92.49)	-	-	250.67	\$ 250.67	-	591.13	166.28	\$ 757.41	\$ 579.41
7/31/2014	(2,266.26)	1,732.71	671.75	\$ 138.20	(866.95)	629.30	582.48	\$ 344.83	-	-	279.32	\$ 279.32	-	291.58	(21.51)	\$ 270.07	\$ 1,032.42
<b>July Total</b>	<b>\$ (57,944.04)</b>	<b>\$ 13,703.76</b>	<b>\$ 23,083.47</b>	<b>\$ (21,156.81)</b>	<b>\$ (21,531.52)</b>	<b>\$ 1,044.02</b>	<b>\$ 17,945.84</b>	<b>\$ (2,541.66)</b>	<b>\$ (23.90)</b>	<b>\$ 10.90</b>	<b>\$ 9,948.68</b>	<b>\$ 9,935.68</b>	<b>\$ -</b>	<b>\$ 9,927.67</b>	<b>\$ 1,046.18</b>	<b>\$ 10,973.85</b>	<b>\$ (2,788.94)</b>

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Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
8/1/2014	(792.66)	(36.25)	814.21	\$ (14.70)	(494.54)	(137.75)	749.32	\$ 117.03	-	-	269.94	\$ 269.94	-	164.14	105.16	\$ 269.30	\$ 641.57
8/2/2014	-	-	864.78	\$ 864.78	(395.40)	(647.83)	676.42	\$ (366.81)	-	-	284.68	\$ 284.68	-	9.61	-	\$ 9.61	\$ 792.26
8/3/2014	(531.08)	293.46	684.70	\$ 447.08	(288.78)	(1,069.09)	418.39	\$ (939.48)	-	-	270.74	\$ 270.74	-	19.14	(2.18)	\$ 16.96	\$ (204.70)
8/4/2014	(389.95)	249.47	753.07	\$ 612.59	(542.92)	(100.58)	634.07	\$ (9.43)	-	-	275.58	\$ 275.58	-	49.71	0.60	\$ 50.31	\$ 929.05
8/5/2014	(935.22)	878.72	680.66	\$ 624.16	(598.52)	(209.08)	688.43	\$ (119.17)	-	-	263.67	\$ 263.67	-	24.46	2.69	\$ 27.15	\$ 795.81
8/6/2014	(1,007.92)	1,489.77	452.78	\$ 934.63	(384.92)	(190.64)	494.10	\$ (81.46)	-	-	230.53	\$ 230.53	-	86.69	(2.13)	\$ 84.56	\$ 1,168.26
8/7/2014	(1,344.82)	1,023.07	516.05	\$ 194.30	(589.52)	(236.71)	656.21	\$ (170.02)	-	-	266.87	\$ 266.87	-	48.57	35.60	\$ 84.17	\$ 375.32
8/8/2014	(990.65)	417.38	640.89	\$ 67.62	(569.26)	(278.38)	733.80	\$ (113.84)	-	-	255.64	\$ 255.64	-	113.46	8.36	\$ 121.82	\$ 331.24
8/9/2014	(344.20)	(59.56)	718.25	\$ 314.49	(165.64)	(1,009.96)	465.21	\$ (710.39)	-	-	265.34	\$ 265.34	126.92	234.38	41.82	\$ 403.12	\$ 272.56
8/10/2014	(297.70)	147.98	706.62	\$ 556.90	(224.86)	(735.61)	602.51	\$ (357.96)	-	-	267.40	\$ 267.40	-	31.42	(5.66)	\$ 25.76	\$ 492.10
8/11/2014	(1,478.71)	412.07	936.49	\$ (130.15)	(617.38)	(166.20)	766.30	\$ (17.28)	-	-	256.99	\$ 256.99	-	15.33	2.59	\$ 17.92	\$ 127.48
8/12/2014	(1,405.22)	237.24	688.30	\$ (479.68)	(382.92)	(129.28)	472.14	\$ (40.06)	-	-	196.90	\$ 196.90	-	32.35	(17.41)	\$ 14.94	\$ (307.90)
8/13/2014	(62.90)	(68.28)	699.82	\$ 568.64	(217.40)	(980.40)	486.25	\$ (711.55)	-	-	210.28	\$ 210.28	-	50.22	0.01	\$ 50.23	\$ 117.60
8/14/2014	(1,317.97)	103.73	549.45	\$ (664.79)	(589.58)	24.47	488.07	\$ (77.04)	-	-	218.23	\$ 218.23	-	431.74	92.26	\$ 524.00	\$ 0.40
8/15/2014	(1,485.11)	1,522.54	735.30	\$ 772.73	(468.06)	(131.01)	405.07	\$ (194.00)	-	-	238.53	\$ 238.53	-	23.59	73.42	\$ 97.01	\$ 914.27
8/16/2014	-	-	744.47	\$ 744.47	(1,831.42)	22.07	590.71	\$ (1,218.64)	-	-	256.40	\$ 256.40	108.12	34.44	-	\$ 142.56	\$ (75.21)
8/17/2014	(64.70)	47.22	571.64	\$ 554.16	(1,278.08)	(24.60)	422.03	\$ (880.65)	-	-	242.44	\$ 242.44	-	27.20	-	\$ 27.20	\$ (56.85)
8/18/2014	(748.27)	(454.07)	484.53	\$ (717.81)	(746.48)	(27.25)	594.67	\$ (179.06)	-	-	240.56	\$ 240.56	-	33.91	86.32	\$ 120.23	\$ (536.08)
8/19/2014	(774.16)	251.71	623.86	\$ 101.41	(879.48)	(2.64)	701.21	\$ (180.91)	-	-	215.00	\$ 215.00	-	7.09	27.51	\$ 34.60	\$ 170.10
8/20/2014	(218.13)	88.86	729.36	\$ 600.09	(1,229.24)	15.51	904.57	\$ (309.16)	-	-	294.79	\$ 294.79	-	41.87	2.08	\$ 43.95	\$ 629.67
8/21/2014	(363.96)	150.23	939.77	\$ 726.04	(1,013.00)	(66.49)	872.46	\$ (207.03)	-	-	510.44	\$ 510.44	-	22.82	10.46	\$ 33.28	\$ 1,062.73
8/22/2014	(643.32)	12.48	910.74	\$ 279.90	(1,276.28)	(245.37)	1,121.91	\$ (399.74)	-	-	338.11	\$ 338.11	-	35.72	37.11	\$ 72.83	\$ 291.10
8/23/2014	(34.90)	(0.31)	590.85	\$ 555.64	(1,475.76)	(3.24)	416.81	\$ (1,062.19)	-	-	242.21	\$ 242.21	-	41.56	0.56	\$ 42.12	\$ (222.22)
8/24/2014	-	(11.45)	661.40	\$ 649.95	(1,930.16)	(147.30)	561.48	\$ (1,515.98)	-	-	256.27	\$ 256.27	-	42.25	(0.25)	\$ 42.00	\$ (567.76)
8/25/2014	(464.53)	(56.36)	937.28	\$ 416.39	(1,424.08)	(63.45)	1,355.51	\$ (132.02)	-	-	1,214.57	\$ 1,214.57	-	59.28	(20.93)	\$ 38.35	\$ 1,537.29
8/26/2014	(1,477.63)	(294.62)	742.50	\$ (1,029.75)	(2,723.02)	263.07	952.72	\$ (1,507.23)	-	-	387.09	\$ 387.09	-	50.06	(11.51)	\$ 38.55	\$ (2,111.34)
8/27/2014	(322.19)	(626.71)	517.53	\$ (431.37)	(713.80)	(68.23)	637.95	\$ (144.08)	-	-	388.17	\$ 388.17	-	621.69	204.12	\$ 825.81	\$ 638.53
8/28/2014	(1,022.12)	(158.53)	498.39	\$ (682.26)	(699.92)	(27.39)	620.68	\$ (106.63)	-	-	262.82	\$ 262.82	-	147.07	215.04	\$ 362.11	\$ (163.96)
8/29/2014	(163.79)	(117.28)	656.54	\$ 375.47	(714.44)	42.12	616.91	\$ (55.41)	-	-	267.93	\$ 267.93	-	37.55	(1.97)	\$ 35.58	\$ 623.57
8/30/2014	(123.54)	(139.02)	696.33	\$ 433.77	(717.38)	(16.37)	612.02	\$ (121.73)	-	-	286.09	\$ 286.09	-	213.57	(4.10)	\$ 209.47	\$ 807.60
8/31/2014	(899.70)	243.21	631.81	\$ (24.68)	(489.96)	(49.79)	544.45	\$ 4.70	-	-	267.24	\$ 267.24	-	30.55	17.28	\$ 47.83	\$ 295.09
<b>Aug Total</b>	<b>\$ (19,705.05)</b>	<b>\$ 5,546.70</b>	<b>\$ 21,378.37</b>	<b>\$ 7,220.02</b>	<b>\$ (25,672.20)</b>	<b>\$ (6,397.40)</b>	<b>\$ 20,262.38</b>	<b>\$ (11,807.22)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 9,441.45</b>	<b>\$ 9,441.45</b>	<b>\$ 235.04</b>	<b>\$ 2,781.44</b>	<b>\$ 896.85</b>	<b>\$ 3,913.33</b>	<b>\$ 8,767.58</b>

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Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
9/1/2014	(1,131.05)	530.63	657.88	\$ 57.46	(542.12)	64.78	471.24	\$ (6.10)	-	-	401.88	\$ 401.88	-	301.51	(5.68)	\$ 295.83	\$ 749.07
9/2/2014	(1,116.00)	665.96	909.17	\$ 459.13	(314.70)	91.46	618.34	\$ 395.10	-	-	349.98	\$ 349.98	-	85.06	(30.18)	\$ 54.88	\$ 1,259.09
9/3/2014	(483.96)	211.16	514.66	\$ 241.86	(70.62)	(50.83)	493.60	\$ 372.15	-	-	265.94	\$ 265.94	-	232.32	(11.44)	\$ 220.88	\$ 1,100.83
9/4/2014	(175.00)	(308.38)	575.12	\$ 91.74	(384.94)	(32.33)	849.62	\$ 432.35	(49.90)	25.40	432.07	\$ 407.57	-	579.73	48.16	\$ 627.89	\$ 1,559.55
9/5/2014	-	(1,711.80)	329.07	\$ (1,382.73)	(278.12)	(229.91)	648.15	\$ 140.12	(10.56)	6.22	371.26	\$ 366.92	-	259.85	89.06	\$ 348.91	\$ (526.78)
9/6/2014	(572.60)	(70.12)	826.72	\$ 184.00	(281.10)	(438.89)	760.79	\$ 40.80	-	-	266.67	\$ 266.67	-	38.07	(18.91)	\$ 19.16	\$ 510.63
9/7/2014	(1,116.88)	354.47	765.43	\$ 3.02	(233.44)	(560.11)	692.36	\$ (101.19)	-	-	279.32	\$ 279.32	-	725.63	(133.44)	\$ 592.19	\$ 773.34
9/8/2014	(1,322.93)	380.96	1,043.49	\$ 101.52	(212.42)	(327.51)	562.17	\$ 22.24	-	-	267.49	\$ 267.49	-	47.93	(488.34)	\$ (440.41)	\$ (49.16)
9/9/2014	(1,319.61)	567.69	865.29	\$ 113.37	(338.66)	(84.58)	1,045.90	\$ 622.66	-	-	534.57	\$ 534.57	-	76.07	(11.18)	\$ 64.89	\$ 1,335.49
9/10/2014	(312.18)	(1,053.19)	629.48	\$ (735.89)	(451.40)	(30.44)	643.48	\$ 161.64	-	-	457.88	\$ 457.88	-	85.96	8.34	\$ 94.30	\$ (22.07)
9/11/2014	(1,707.93)	1,250.85	1,047.41	\$ 590.33	(341.76)	(56.31)	737.21	\$ 339.14	-	-	250.73	\$ 250.73	-	5.96	6.39	\$ 12.35	\$ 1,192.55
9/12/2014	(1,524.96)	237.39	1,256.09	\$ (31.48)	(263.26)	(104.05)	732.12	\$ 364.81	-	-	325.65	\$ 325.65	-	83.39	37.39	\$ 120.78	\$ 779.76
9/13/2014	(1,095.20)	810.53	1,076.27	\$ 791.60	(831.70)	(351.33)	866.43	\$ (316.60)	-	-	369.96	\$ 369.96	-	350.07	0.90	\$ 350.97	\$ 1,195.93
9/14/2014	(181.02)	(331.84)	939.36	\$ 426.50	(1,069.40)	(164.18)	907.83	\$ (325.75)	-	-	279.12	\$ 279.12	-	137.81	25.24	\$ 163.05	\$ 542.92
9/15/2014	(1,047.05)	400.74	852.92	\$ 206.61	(804.71)	132.53	964.22	\$ 292.04	-	-	390.23	\$ 390.23	-	29.66	(21.82)	\$ 7.84	\$ 896.72
9/16/2014	(970.76)	566.34	902.86	\$ 498.44	(624.17)	(25.58)	796.21	\$ 146.46	-	-	342.26	\$ 342.26	-	29.87	(25.23)	\$ 4.64	\$ 991.80
9/17/2014	(1,147.88)	296.69	930.21	\$ 79.02	(692.73)	(11.00)	864.94	\$ 161.21	-	-	501.06	\$ 501.06	-	488.09	13.92	\$ 502.01	\$ 1,243.30
9/18/2014	(2,559.21)	1,377.39	842.27	\$ (339.55)	(536.74)	(34.95)	707.91	\$ 136.22	-	-	354.41	\$ 354.41	-	302.21	(24.01)	\$ 278.20	\$ 429.28
9/19/2014	(1,760.56)	1,016.13	873.03	\$ 128.60	(262.30)	(44.60)	403.81	\$ 96.91	-	-	391.65	\$ 391.65	-	127.76	16.42	\$ 144.18	\$ 761.34
9/20/2014	(1,558.11)	873.56	941.64	\$ 257.09	(1,041.84)	(393.17)	826.67	\$ (608.34)	-	-	548.74	\$ 548.74	-	270.79	25.13	\$ 295.92	\$ 493.41
9/21/2014	(556.89)	26.78	1,075.76	\$ 545.65	(1,111.39)	(74.60)	938.23	\$ (247.76)	-	-	651.37	\$ 651.37	-	269.30	(28.20)	\$ 241.10	\$ 1,190.36
9/22/2014	(1,741.81)	687.46	954.23	\$ (100.12)	(771.23)	103.07	971.04	\$ 302.88	-	-	348.56	\$ 348.56	-	356.67	(91.13)	\$ 265.54	\$ 816.86
9/23/2014	(2,198.56)	1,249.22	950.03	\$ 0.69	(466.36)	(58.72)	807.63	\$ 282.55	-	-	479.48	\$ 479.48	-	346.13	(25.09)	\$ 321.04	\$ 1,083.76
9/24/2014	(548.02)	(79.95)	871.96	\$ 243.99	(255.25)	(164.65)	843.35	\$ 423.45	-	-	397.96	\$ 397.96	-	57.55	34.34	\$ 91.89	\$ 1,157.29
9/25/2014	(865.59)	270.99	806.20	\$ 211.60	(266.02)	(35.12)	864.70	\$ 563.56	-	-	336.20	\$ 336.20	-	116.69	0.83	\$ 117.52	\$ 1,228.88
9/26/2014	(743.05)	95.60	955.86	\$ 308.41	(244.88)	1.39	795.45	\$ 551.96	-	-	374.00	\$ 374.00	-	168.95	6.89	\$ 175.84	\$ 1,410.21
9/27/2014	(487.60)	527.24	870.76	\$ 910.40	(837.04)	433.83	1,097.92	\$ 694.71	-	-	438.99	\$ 438.99	-	12.56	10.58	\$ 23.14	\$ 2,067.24
9/28/2014	(366.30)	218.53	703.43	\$ 555.66	(266.96)	(12.87)	1,190.28	\$ 910.45	-	-	194.61	\$ 194.61	-	16.95	(0.49)	\$ 16.46	\$ 1,677.18
9/29/2014	(70.84)	(823.09)	760.78	\$ (133.15)	(280.66)	(40.23)	878.80	\$ 557.91	-	-	474.14	\$ 474.14	-	23.80	(617.72)	\$ (593.92)	\$ 304.98
9/30/2014	(1,060.97)	776.01	869.14	\$ 584.18	(455.94)	(300.39)	719.08	\$ (37.25)	-	-	535.06	\$ 535.06	-	57.40	0.08	\$ 57.48	\$ 1,139.47
<b>Sept Total</b>	<b>\$ (29,742.52)</b>	<b>\$ 9,013.95</b>	<b>\$ 25,596.52</b>	<b>\$ 4,867.95</b>	<b>\$ (14,531.86)</b>	<b>\$ (2,799.29)</b>	<b>\$ 23,699.48</b>	<b>\$ 6,368.33</b>	<b>\$ (60.46)</b>	<b>\$ 31.62</b>	<b>\$ 11,611.24</b>	<b>\$ 11,582.40</b>	<b>-</b>	<b>\$ 5,683.74</b>	<b>(1,209.19)</b>	<b>\$ 4,474.55</b>	<b>\$ 27,293.23</b>



NOTE: A negative number is a payment from MISO and a positive number is a payment to MISO

Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
10/1/2014	(384.65)	81.71	805.91	\$ 502.97	(1,005.60)	254.94	1,343.63	\$ 592.97	-	-	1,282.43	\$ 1,282.43	-	43.89	3.16	\$ 47.05	\$ 2,425.42
10/2/2014	(203.28)	70.80	1,036.67	\$ 904.19	(685.41)	197.28	881.58	\$ 393.45	-	-	727.37	\$ 727.37	-	57.56	9.56	\$ 67.12	\$ 2,092.13
10/3/2014	(1,509.16)	578.89	931.16	\$ 0.89	(313.47)	(106.90)	456.48	\$ 36.11	-	-	430.41	\$ 430.41	-	106.21	(31.85)	\$ 74.36	\$ 541.77
10/4/2014	(447.19)	249.78	1,145.60	\$ 948.19	(949.68)	(129.75)	1,268.09	\$ 188.66	-	-	1,037.29	\$ 1,037.29	-	84.06	5.14	\$ 89.20	\$ 2,263.34
10/5/2014	-	(180.97)	1,126.32	\$ 945.35	(1,173.00)	(80.71)	1,480.12	\$ 226.41	-	-	341.76	\$ 341.76	-	87.35	13.00	\$ 100.35	\$ 1,613.87
10/6/2014	(469.05)	(1,707.99)	1,195.00	\$ (982.04)	(317.04)	(615.49)	1,428.23	\$ 495.70	-	-	819.53	\$ 819.53	-	125.43	(37.18)	\$ 88.25	\$ 421.44
10/7/2014	(545.87)	(438.54)	1,205.22	\$ 220.81	(934.28)	3.47	1,032.05	\$ 101.24	-	(2.13)	798.94	\$ 796.81	-	254.60	68.08	\$ 322.68	\$ 1,441.54
10/8/2014	-	(156.77)	1,228.38	\$ 1,071.61	(388.92)	(98.39)	1,033.17	\$ 545.86	-	-	709.36	\$ 709.36	-	51.75	(4.47)	\$ 47.28	\$ 2,374.11
10/9/2014	(85.12)	(233.24)	1,084.93	\$ 766.57	(570.11)	61.77	997.77	\$ 489.43	-	-	717.37	\$ 717.37	-	32.90	37.91	\$ 70.81	\$ 2,044.18
10/10/2014	(607.86)	443.37	1,350.20	\$ 1,185.71	(797.11)	193.43	1,226.17	\$ 622.49	-	-	935.95	\$ 935.95	-	11.82	3.67	\$ 15.49	\$ 2,759.64
10/11/2014	(378.80)	218.66	1,213.37	\$ 1,053.23	(266.89)	(122.27)	775.93	\$ 386.77	-	-	699.74	\$ 699.74	-	24.60	4.56	\$ 29.16	\$ 2,168.90
10/12/2014	(1,008.40)	156.23	1,185.72	\$ 333.55	(192.04)	(60.43)	579.27	\$ 326.80	-	-	521.96	\$ 521.96	-	629.68	30.42	\$ 660.10	\$ 1,842.41
10/13/2014	(127.20)	(373.77)	1,225.71	\$ 724.74	(208.18)	(24.92)	986.80	\$ 753.70	-	-	750.26	\$ 750.26	-	52.19	15.56	\$ 67.75	\$ 2,296.45
10/14/2014	(752.94)	239.47	1,140.96	\$ 627.49	(321.04)	38.24	940.38	\$ 657.58	-	-	506.65	\$ 506.65	-	131.38	(26.74)	\$ 104.64	\$ 1,896.36
10/15/2014	-	(2,580.07)	1,137.53	\$ (1,442.54)	(577.16)	(15.95)	1,538.71	\$ 945.60	-	-	912.30	\$ 912.30	-	511.73	(7.66)	\$ 504.07	\$ 919.43
10/16/2014	(1,168.26)	727.82	669.39	\$ 228.95	(1,115.22)	69.99	1,041.01	\$ (4.22)	-	-	737.93	\$ 737.93	-	153.44	(24.09)	\$ 129.35	\$ 1,092.01
10/17/2014	(390.58)	312.57	999.30	\$ 921.29	(623.46)	(569.16)	954.12	\$ (238.50)	(44.15)	9.48	619.16	\$ 584.49	-	43.38	2.44	\$ 45.82	\$ 1,313.10
10/18/2014	(1,089.72)	823.87	1,139.82	\$ 873.97	(375.54)	(299.11)	975.38	\$ 300.73	-	-	598.79	\$ 598.79	-	50.79	(0.04)	\$ 50.75	\$ 1,824.24
10/19/2014	(1,032.64)	915.85	966.85	\$ 850.06	(522.18)	(96.32)	952.57	\$ 334.07	-	-	607.66	\$ 607.66	-	48.80	(1.51)	\$ 47.29	\$ 1,839.08
10/20/2014	(47.20)	(32.98)	1,200.82	\$ 1,120.64	(546.00)	16.63	1,331.55	\$ 802.18	-	-	748.14	\$ 748.14	-	64.87	1.06	\$ 65.93	\$ 2,736.89
10/21/2014	(48.60)	(102.42)	1,045.54	\$ 894.52	(495.18)	7.93	1,195.94	\$ 708.69	-	-	678.74	\$ 678.74	-	49.98	(7.35)	\$ 42.63	\$ 2,324.58
10/22/2014	(696.18)	347.85	1,077.98	\$ 729.65	(548.94)	(43.96)	1,330.24	\$ 737.34	-	-	830.64	\$ 830.64	-	153.96	23.80	\$ 177.76	\$ 2,475.39
10/23/2014	-	(94.18)	1,138.54	\$ 1,044.36	(531.66)	1.54	1,341.69	\$ 811.57	-	-	914.33	\$ 914.33	-	75.48	(5.02)	\$ 70.46	\$ 2,840.72
10/24/2014	-	(199.55)	1,084.16	\$ 884.61	(390.84)	5.08	937.20	\$ 551.44	-	-	449.45	\$ 449.45	-	85.54	1.39	\$ 86.93	\$ 1,972.43
10/25/2014	(112.02)	(119.66)	1,254.48	\$ 1,022.80	(416.36)	8.90	1,127.91	\$ 720.45	-	-	597.60	\$ 597.60	-	70.10	3.51	\$ 73.61	\$ 2,414.46
10/26/2014	(1,131.36)	203.55	1,117.91	\$ 190.10	(306.94)	0.59	879.78	\$ 573.43	-	-	702.34	\$ 702.34	-	114.71	(31.55)	\$ 83.16	\$ 1,549.03
10/27/2014	-	(173.42)	1,171.92	\$ 998.50	(479.56)	5.57	1,209.41	\$ 735.42	-	-	657.96	\$ 657.96	-	63.39	3.10	\$ 66.49	\$ 2,458.37
10/28/2014	(164.36)	154.99	880.65	\$ 871.28	(357.30)	158.13	812.58	\$ 613.41	-	-	576.32	\$ 576.32	-	27.38	(5.44)	\$ 21.94	\$ 2,082.95
10/29/2014	-	(58.24)	1,146.79	\$ 1,088.55	(334.72)	(17.72)	1,123.47	\$ 771.03	-	-	761.72	\$ 761.72	-	83.09	-	\$ 83.09	\$ 2,704.39
10/30/2014	(57.24)	(208.80)	1,187.10	\$ 921.06	(836.42)	261.43	1,208.49	\$ 633.50	-	-	314.79	\$ 314.79	-	113.88	(7.20)	\$ 106.68	\$ 1,976.03
10/31/2014	(3.09)	(161.07)	1,488.23	\$ 1,324.07	(403.26)	(1.70)	1,055.80	\$ 650.84	-	-	327.08	\$ 327.08	-	32.29	(3.48)	\$ 28.81	\$ 2,330.80
<b>Oct Total</b>	<b>\$ (12,460.77)</b>	<b>\$ (1,296.26)</b>	<b>\$ 34,582.16</b>	<b>\$ 20,825.13</b>	<b>\$ (16,983.51)</b>	<b>\$ (997.86)</b>	<b>\$ 33,445.52</b>	<b>\$ 15,464.15</b>	<b>\$ (44.15)</b>	<b>\$ 7.35</b>	<b>\$ 21,313.97</b>	<b>\$ 21,277.17</b>	<b>-</b>	<b>3,436.23</b>	<b>32.78</b>	<b>\$ 3,469.01</b>	<b>\$ 61,035.46</b>

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Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
11/1/2014	(1,133.70)	521.40	1,189.52	\$ 577.22	(449.22)	105.44	674.48	\$ 330.70	-	-	316.08	\$ 316.08	-	102.67	(37.47)	\$ 65.20	\$ 1,289.20
11/2/2014	(1,044.57)	585.71	1,100.76	\$ 641.90	(287.32)	(13.64)	495.55	\$ 194.59	-	-	277.93	\$ 277.93	-	93.68	0.12	\$ 93.80	\$ 1,208.22
11/3/2014	(1,369.45)	585.75	1,055.80	\$ 272.10	(434.02)	(397.95)	1,107.44	\$ 275.47	-	-	312.23	\$ 312.23	-	312.14	141.01	\$ 453.15	\$ 1,312.95
11/4/2014	(354.45)	17.90	1,258.27	\$ 921.72	(651.13)	88.63	931.72	\$ 369.22	-	(2.24)	313.02	\$ 310.78	-	123.88	2.15	\$ 126.03	\$ 1,727.75
11/5/2014	(369.46)	(659.67)	1,202.76	\$ 173.63	(851.50)	235.36	1,029.53	\$ 413.39	-	-	292.57	\$ 292.57	-	212.61	8.10	\$ 220.71	\$ 1,100.30
11/6/2014	(788.38)	662.95	1,373.90	\$ 1,248.47	(1,137.99)	13.23	1,631.91	\$ 507.15	-	-	285.05	\$ 285.05	-	132.13	(221.76)	\$ (89.63)	\$ 1,951.04
11/7/2014	(258.78)	(592.17)	1,230.23	\$ 379.28	(832.43)	1.90	1,238.45	\$ 407.92	-	(1.33)	241.77	\$ 240.44	-	351.01	25.43	\$ 376.44	\$ 1,404.08
11/8/2014	(143.30)	101.00	1,215.68	\$ 1,173.38	(1,026.74)	0.51	941.83	\$ (84.40)	-	-	234.04	\$ 234.04	-	42.90	(4.30)	\$ 38.60	\$ 1,361.62
11/9/2014	(84.38)	(0.37)	1,443.19	\$ 1,358.44	(1,121.70)	(7.32)	1,009.38	\$ (119.64)	-	-	292.75	\$ 292.75	-	101.73	0.47	\$ 102.20	\$ 1,633.75
11/10/2014	(742.73)	135.06	881.80	\$ 274.13	(712.49)	17.99	997.49	\$ 302.99	-	(7.62)	271.29	\$ 263.67	-	97.08	2.05	\$ 99.13	\$ 939.92
11/11/2014	(1,235.43)	(581.56)	1,281.40	\$ (535.59)	(796.58)	(26.20)	1,058.36	\$ 235.58	-	(4.25)	271.93	\$ 267.68	-	1,589.48	(35.22)	\$ 1,554.26	\$ 1,521.93
11/12/2014	(1,314.70)	532.60	1,078.78	\$ 296.68	(923.08)	(15.74)	1,423.62	\$ 484.80	-	-	111.30	\$ 111.30	-	572.94	88.43	\$ 661.37	\$ 1,554.15
11/13/2014	(1,117.55)	292.22	1,501.03	\$ 675.70	(1,170.46)	12.37	1,448.17	\$ 290.08	-	-	304.57	\$ 304.57	-	843.94	(6.65)	\$ 837.29	\$ 2,107.64
11/14/2014	-	(4.61)	2,025.52	\$ 2,020.91	(1,917.87)	(124.03)	2,444.21	\$ 402.31	-	-	624.24	\$ 624.24	-	0.03	2.54	\$ 2.57	\$ 3,050.03
11/15/2014	-	(54.00)	1,480.95	\$ 1,426.95	(989.78)	11.07	1,345.48	\$ 366.77	-	-	281.96	\$ 281.96	-	67.02	1.15	\$ 68.17	\$ 2,143.85
11/16/2014	(1,472.10)	456.84	1,058.14	\$ 42.88	(631.54)	4.64	873.74	\$ 246.84	-	-	380.23	\$ 380.23	-	29.77	9.42	\$ 39.19	\$ 709.14
11/17/2014	(1,976.30)	1,531.25	1,396.22	\$ 951.17	(892.05)	110.51	1,382.76	\$ 601.22	-	-	801.84	\$ 801.84	-	393.29	(13.09)	\$ 380.20	\$ 2,734.43
11/18/2014	(63.60)	(801.74)	1,786.10	\$ 920.76	(1,786.08)	62.72	2,362.79	\$ 639.43	-	-	904.84	\$ 904.84	-	591.42	47.50	\$ 638.92	\$ 3,103.95
11/19/2014	(512.65)	(2,776.66)	1,256.92	\$ (2,032.39)	(1,056.17)	(334.15)	1,460.09	\$ 69.77	-	-	255.97	\$ 255.97	-	1,189.36	(20.57)	\$ 1,168.79	\$ (537.86)
11/20/2014	-	(67.25)	1,653.76	\$ 1,586.51	(826.44)	163.60	1,314.72	\$ 651.88	-	-	549.08	\$ 549.08	-	53.57	(9.53)	\$ 44.04	\$ 2,831.51
11/21/2014	(288.75)	(1,997.99)	1,235.05	\$ (1,051.69)	(895.22)	(555.70)	1,352.61	\$ (98.31)	-	-	278.29	\$ 278.29	-	122.96	69.03	\$ 191.99	\$ (679.72)
11/22/2014	(2,697.51)	930.63	1,070.30	\$ (696.58)	(868.12)	(21.37)	1,155.06	\$ 265.57	-	-	243.21	\$ 243.21	-	98.39	(16.13)	\$ 82.26	\$ (105.54)
11/23/2014	(3,178.24)	1,435.09	1,152.30	\$ (590.85)	(882.80)	94.26	830.10	\$ 41.56	-	-	256.18	\$ 256.18	-	60.93	81.56	\$ 142.49	\$ (150.62)
11/24/2014	(1,738.30)	(26.99)	1,143.20	\$ (622.09)	(949.61)	57.93	820.92	\$ (70.76)	-	-	238.20	\$ 238.20	-	372.74	(25.80)	\$ 346.94	\$ (107.71)
11/25/2014	(834.23)	(1,365.27)	1,260.62	\$ (938.88)	(1,235.20)	76.49	1,051.39	\$ (107.32)	-	-	229.03	\$ 229.03	-	177.67	19.34	\$ 197.01	\$ (620.16)
11/26/2014	(1,776.28)	(627.25)	1,084.92	\$ (1,318.61)	(862.83)	78.52	783.22	\$ (1.09)	-	-	228.36	\$ 228.36	-	464.09	238.98	\$ 703.07	\$ (388.27)
11/27/2014	(2,795.14)	1,386.94	1,087.35	\$ (320.85)	(775.95)	33.69	816.93	\$ 74.67	-	-	252.37	\$ 252.37	-	268.71	157.23	\$ 425.94	\$ 432.13
11/28/2014	(3,435.02)	2,088.07	1,079.85	\$ (267.10)	(839.93)	90.20	721.87	\$ (27.86)	-	-	240.60	\$ 240.60	-	287.82	(79.30)	\$ 208.52	\$ 154.16
11/29/2014	(2,215.51)	(24.79)	933.47	\$ (1,306.83)	(665.99)	11.36	710.07	\$ 55.44	-	-	254.27	\$ 254.27	-	698.13	(52.16)	\$ 645.97	\$ (351.15)
11/30/2014	(1,897.17)	310.66	1,008.59	\$ (577.92)	(587.15)	58.83	522.99	\$ (5.33)	-	-	268.30	\$ 268.30	-	465.31	6.53	\$ 471.84	\$ 156.89
<b>Nov Total</b>	<b>\$ (34,837.68)</b>	<b>\$ 1,993.75</b>	<b>\$ 37,526.38</b>	<b>\$ 4,682.45</b>	<b>\$ (27,057.39)</b>	<b>\$ (166.85)</b>	<b>\$ 33,936.88</b>	<b>\$ 6,712.64</b>	<b>\$ -</b>	<b>\$ (15.44)</b>	<b>\$ 9,811.50</b>	<b>\$ 9,796.06</b>	<b>\$ -</b>	<b>\$ 9,917.40</b>	<b>\$ 379.06</b>	<b>\$ 10,296.46</b>	<b>\$ 31,487.61</b>

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Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
12/1/2014	(787.38)	(476.79)	1,660.26	\$ 396.09	(1,122.82)	128.55	905.80	\$ (88.47)	-	-	226.79	\$ 226.79	-	296.58	(26.91)	\$ 269.67	\$ 804.08
12/2/2014	(1,337.49)	(748.03)	856.36	\$ (1,229.16)	(653.68)	124.57	902.20	\$ 373.09	-	-	220.34	\$ 220.34	-	471.21	290.99	\$ 762.20	\$ 126.47
12/3/2014	(1,524.45)	(4.51)	1,242.03	\$ (286.93)	(773.70)	88.85	820.86	\$ 136.01	-	-	218.91	\$ 218.91	-	345.08	48.71	\$ 393.79	\$ 461.78
12/4/2014	(2,039.59)	1,092.01	1,126.40	\$ 178.82	(1,051.45)	207.94	894.90	\$ 51.39	-	-	279.10	\$ 279.10	-	19.74	23.82	\$ 43.56	\$ 552.87
12/5/2014	(1,077.32)	(2,531.15)	1,081.38	\$ (2,527.09)	(1,306.85)	598.53	1,155.73	\$ 447.41	-	-	259.67	\$ 259.67	-	421.15	370.15	\$ 791.30	\$ (1,028.71)
12/6/2014	(1,633.58)	(684.07)	1,011.78	\$ (1,305.87)	(762.09)	113.43	786.36	\$ 137.70	-	-	239.72	\$ 239.72	-	509.48	37.79	\$ 547.27	\$ (381.18)
12/7/2014	(2,560.55)	226.91	634.56	\$ (1,699.08)	(574.80)	68.46	499.87	\$ (6.47)	-	-	228.42	\$ 228.42	-	541.51	64.66	\$ 606.17	\$ (870.96)
12/8/2014	(1,795.47)	(91.23)	804.54	\$ (1,082.16)	(780.59)	68.49	555.76	\$ (156.34)	-	-	205.90	\$ 205.90	-	326.02	56.59	\$ 382.61	\$ (649.99)
12/9/2014	(604.78)	(287.34)	883.81	\$ (8.31)	(1,035.50)	62.80	783.67	\$ (189.03)	-	-	204.53	\$ 204.53	-	139.31	71.74	\$ 211.05	\$ 218.24
12/10/2014	(1,132.19)	152.52	906.75	\$ (72.92)	(1,036.97)	46.51	777.76	\$ (212.70)	-	-	202.76	\$ 202.76	-	208.10	44.50	\$ 252.60	\$ 169.74
12/11/2014	(574.76)	(333.34)	808.72	\$ (99.38)	(901.30)	(0.56)	836.50	\$ (65.36)	-	-	207.22	\$ 207.22	-	267.75	50.50	\$ 318.25	\$ 360.73
12/12/2014	(1,472.89)	(510.92)	714.00	\$ (1,269.81)	(701.59)	50.36	564.48	\$ (86.75)	-	-	202.94	\$ 202.94	-	351.44	(47.56)	\$ 303.88	\$ (849.74)
12/13/2014	(3,724.09)	1,347.15	768.10	\$ (1,608.84)	(641.36)	72.65	559.79	\$ (8.92)	-	-	223.12	\$ 223.12	-	757.68	(21.43)	\$ 736.25	\$ (658.39)
12/14/2014	(3,809.72)	2,698.85	918.55	\$ (192.32)	(618.25)	99.30	541.48	\$ 22.53	-	-	245.52	\$ 245.52	-	386.97	43.33	\$ 430.30	\$ 506.03
12/15/2014	(2,596.58)	1,607.17	791.20	\$ (198.21)	(565.80)	118.79	429.84	\$ (17.17)	-	-	220.92	\$ 220.92	-	346.78	48.55	\$ 395.33	\$ 400.87
12/16/2014	(1,908.23)	242.35	934.78	\$ (731.10)	(711.42)	44.86	513.96	\$ (152.60)	-	-	213.38	\$ 213.38	-	427.11	43.47	\$ 470.58	\$ (199.74)
12/17/2014	(745.71)	508.52	885.34	\$ 648.15	(645.50)	88.75	599.31	\$ 42.56	-	-	250.45	\$ 250.45	-	45.83	(5.67)	\$ 40.16	\$ 981.32
12/18/2014	(339.15)	(604.69)	751.79	\$ (192.05)	(559.52)	(20.49)	624.58	\$ 44.57	-	-	207.41	\$ 207.41	-	164.54	13.46	\$ 178.00	\$ 237.93
12/19/2014	(442.03)	(469.02)	616.71	\$ (294.34)	(633.24)	50.38	705.54	\$ 122.68	-	-	223.12	\$ 223.12	-	267.82	30.58	\$ 298.40	\$ 349.86
12/20/2014	(1,066.94)	(180.72)	625.32	\$ (622.34)	(311.71)	4.76	540.74	\$ 233.79	-	-	234.41	\$ 234.41	-	231.52	190.45	\$ 421.97	\$ 267.83
12/21/2014	(1,783.48)	241.56	613.27	\$ (928.65)	(411.98)	172.44	536.94	\$ 297.40	-	-	234.96	\$ 234.96	-	167.90	(2.07)	\$ 165.83	\$ (230.46)
12/22/2014	(858.33)	(251.20)	648.03	\$ (461.50)	(563.64)	51.30	669.66	\$ 157.32	-	-	237.86	\$ 237.86	-	160.91	58.98	\$ 219.89	\$ 153.57
12/23/2014	(1,733.51)	82.71	855.19	\$ (795.61)	(602.35)	116.15	725.35	\$ 239.15	-	-	235.21	\$ 235.21	-	137.75	3.24	\$ 140.99	\$ (180.26)
12/24/2014	(1,550.37)	(526.17)	556.29	\$ (1,520.25)	(471.18)	46.57	568.99	\$ 144.38	-	-	246.22	\$ 246.22	-	502.11	95.14	\$ 597.25	\$ (532.40)
12/25/2014	(3,369.14)	1,759.59	718.21	\$ (891.34)	(377.30)	50.18	385.75	\$ 58.63	-	-	250.00	\$ 250.00	-	315.80	59.54	\$ 375.34	\$ (207.37)
12/26/2014	(3,244.14)	255.95	1,034.67	\$ (1,953.52)	(585.04)	58.10	705.14	\$ 178.20	-	-	251.35	\$ 251.35	-	720.88	(28.38)	\$ 692.50	\$ (831.47)
12/27/2014	(3,190.77)	425.47	728.25	\$ (2,037.05)	(505.15)	74.33	582.82	\$ 152.00	-	-	254.28	\$ 254.28	-	1,034.36	20.37	\$ 1,054.73	\$ (576.04)
12/28/2014	(2,193.15)	(197.10)	886.14	\$ (1,504.11)	(594.52)	112.20	719.31	\$ 236.99	-	-	251.32	\$ 251.32	-	344.04	35.87	\$ 379.91	\$ (635.89)
12/29/2014	(1,323.43)	(370.67)	817.58	\$ (876.52)	(609.92)	134.47	643.03	\$ 167.58	-	-	231.02	\$ 231.02	-	457.39	47.11	\$ 504.50	\$ 26.58
12/30/2014	(642.34)	(339.09)	621.76	\$ (359.67)	(573.61)	247.01	748.36	\$ 421.76	-	-	233.26	\$ 233.26	-	283.05	71.10	\$ 354.15	\$ 649.50
12/31/2014	(2,283.57)	541.33	852.17	\$ (890.07)	(483.51)	61.05	614.12	\$ 191.66	-	-	218.65	\$ 218.65	-	526.60	(1.06)	\$ 525.54	\$ 45.78
<b>Dec Total</b>	<b>\$ (53,345.13)</b>	<b>\$ 2,576.05</b>	<b>\$ 26,353.94</b>	<b>\$ (24,415.14)</b>	<b>\$ (21,166.34)</b>	<b>\$ 3,140.73</b>	<b>\$ 20,898.60</b>	<b>\$ 2,872.99</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,158.76</b>	<b>\$ 7,158.76</b>	<b>\$ -</b>	<b>\$ 11,176.41</b>	<b>\$ 1,687.56</b>	<b>\$ 12,863.97</b>	<b>\$ (1,519.42)</b>



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Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
1/1/2015	(1,819.07)	1,250.82	931.92	\$ 363.67	(464.60)	(128.35)	582.81	\$ (10.14)	-	-	231.53	\$ 231.53	-	127.32	(12.27)	\$ 115.05	\$ 700.11
1/2/2015	(941.20)	88.96	926.36	\$ 74.12	(534.22)	(23.82)	804.59	\$ 246.55	-	-	249.99	\$ 249.99	-	185.19	(0.84)	\$ 184.35	\$ 755.01
1/3/2015	(2,268.30)	813.46	844.70	\$ (610.14)	(496.76)	39.98	522.18	\$ 65.40	-	-	239.67	\$ 239.67	-	138.12	3.21	\$ 141.33	\$ (163.74)
1/4/2015	(1,399.86)	113.13	942.12	\$ (344.61)	(442.91)	48.20	553.23	\$ 158.52	-	-	227.75	\$ 227.75	-	542.51	12.00	\$ 554.51	\$ 596.17
1/5/2015	(364.02)	(11.74)	614.96	\$ 239.20	(547.42)	16.09	708.96	\$ 177.63	-	-	205.90	\$ 205.90	-	58.25	13.53	\$ 71.78	\$ 694.51
1/6/2015	(217.48)	(64.46)	566.87	\$ 284.93	(494.54)	(20.81)	635.08	\$ 119.73	-	-	198.06	\$ 198.06	-	82.93	(0.44)	\$ 82.49	\$ 685.21
1/7/2015	(336.96)	(64.28)	686.70	\$ 285.46	(816.14)	46.79	1,070.77	\$ 301.42	-	-	128.81	\$ 128.81	-	140.27	91.72	\$ 231.99	\$ 947.68
1/8/2015	(2,251.01)	(4,528.41)	635.67	\$ (6,143.75)	(1,377.57)	(10,526.32)	1,862.75	\$ (10,041.14)	-	-	(792.44)	\$ (792.44)	-	666.50	275.74	\$ 942.24	\$ (16,035.09)
1/9/2015	(1,430.51)	479.51	921.11	\$ (29.89)	(536.51)	68.30	595.37	\$ 127.16	-	-	208.93	\$ 208.93	-	24.32	41.78	\$ 66.10	\$ 372.30
1/10/2015	(801.42)	336.18	716.13	\$ 250.89	(294.86)	49.09	461.82	\$ 216.05	-	-	203.39	\$ 203.39	-	9.79	25.10	\$ 34.89	\$ 705.22
1/11/2015	(272.96)	(23.59)	575.67	\$ 279.12	(246.35)	(20.16)	482.78	\$ 216.27	-	-	223.43	\$ 223.43	-	50.14	11.45	\$ 61.59	\$ 780.41
1/12/2015	(247.94)	(40.02)	648.21	\$ 360.25	(515.21)	93.49	632.94	\$ 211.22	-	-	210.07	\$ 210.07	-	59.85	4.75	\$ 64.60	\$ 846.14
1/13/2015	(493.84)	105.61	770.24	\$ 382.01	(529.93)	63.05	606.59	\$ 139.71	-	-	201.15	\$ 201.15	-	34.27	(0.80)	\$ 33.47	\$ 756.34
1/14/2015	(556.38)	(189.08)	681.42	\$ (64.04)	(536.30)	61.75	521.96	\$ 47.41	-	-	185.55	\$ 185.55	-	198.41	18.21	\$ 216.62	\$ 385.54
1/15/2015	(1,428.35)	363.55	648.38	\$ (416.42)	(603.68)	53.72	432.99	\$ (116.97)	-	-	194.21	\$ 194.21	-	150.91	40.71	\$ 191.62	\$ (147.56)
1/16/2015	(1,156.85)	382.75	861.38	\$ 87.28	(656.86)	47.13	615.32	\$ 5.59	-	-	215.44	\$ 215.44	-	95.05	6.49	\$ 101.54	\$ 409.85
1/17/2015	(805.40)	(655.48)	755.00	\$ (705.88)	(607.00)	(38.93)	371.87	\$ (274.06)	-	-	208.97	\$ 208.97	-	178.74	(57.87)	\$ 120.87	\$ (650.10)
1/18/2015	(605.29)	(182.31)	541.01	\$ (246.59)	(656.52)	41.20	476.99	\$ (138.33)	-	-	222.48	\$ 222.48	-	244.78	1.83	\$ 246.61	\$ 84.17
1/19/2015	(1,679.72)	251.22	627.71	\$ (800.79)	(445.12)	14.78	407.52	\$ (22.82)	-	-	212.73	\$ 212.73	-	215.28	(17.50)	\$ 197.78	\$ (413.10)
1/20/2015	(1,174.43)	19.76	574.68	\$ (579.99)	(597.90)	85.01	407.29	\$ (105.60)	-	-	210.91	\$ 210.91	-	339.58	(15.64)	\$ 323.94	\$ (150.74)
1/21/2015	(1,422.58)	343.27	642.56	\$ (436.75)	(619.44)	42.66	450.59	\$ (126.19)	-	-	200.22	\$ 200.22	-	90.42	(6.67)	\$ 83.75	\$ (278.97)
1/22/2015	(1,012.07)	(111.60)	552.21	\$ (571.46)	(565.44)	48.70	427.74	\$ (89.00)	-	-	194.47	\$ 194.47	-	185.71	(3.68)	\$ 182.03	\$ (283.96)
1/23/2015	(1,021.12)	(75.03)	542.47	\$ (553.68)	(544.83)	82.43	341.09	\$ (121.31)	-	-	203.36	\$ 203.36	52.51	127.42	2.28	\$ 182.21	\$ (289.42)
1/24/2015	(971.93)	103.15	530.37	\$ (338.41)	(587.36)	22.29	351.48	\$ (213.59)	-	-	210.83	\$ 210.83	-	176.21	0.93	\$ 177.14	\$ (164.03)
1/25/2015	(583.01)	198.82	531.23	\$ 147.04	(579.16)	16.41	399.37	\$ (163.38)	-	-	218.52	\$ 218.52	-	74.98	6.70	\$ 81.68	\$ 283.86
1/26/2015	(1,403.74)	205.83	690.41	\$ (507.50)	(821.16)	34.62	498.27	\$ (288.27)	-	-	216.37	\$ 216.37	-	95.00	(100.69)	\$ (5.69)	\$ (585.09)
1/27/2015	(1,122.82)	238.32	709.58	\$ (174.92)	(1,000.36)	86.92	724.62	\$ (188.82)	-	-	219.50	\$ 219.50	-	81.24	(14.32)	\$ 66.92	\$ (77.32)
1/28/2015	(1,228.81)	347.90	662.66	\$ (218.25)	(809.54)	40.26	421.71	\$ (347.57)	-	-	209.61	\$ 209.61	-	52.83	9.32	\$ 62.15	\$ (294.06)
1/29/2015	(326.32)	30.45	459.00	\$ 163.13	(450.74)	15.69	305.87	\$ (129.18)	-	-	201.69	\$ 201.69	-	94.83	(0.89)	\$ 93.94	\$ 329.58
1/30/2015	(1,278.58)	486.71	748.18	\$ (43.69)	(757.22)	56.00	670.41	\$ (30.81)	-	-	223.79	\$ 223.79	-	64.29	(72.49)	\$ (8.20)	\$ 141.09
1/31/2015	(1,086.27)	361.07	472.92	\$ (252.28)	(642.31)	82.61	419.32	\$ (140.38)	-	-	225.57	\$ 225.57	-	8.94	2.83	\$ 11.77	\$ (155.32)
Jan Total	\$ (31,708.24)	\$ 574.47	\$ 21,011.83	\$ (10,121.94)	\$ (18,777.96)	\$ (9,501.22)	\$ 17,764.28	\$ (10,514.90)	\$ -	\$ -	\$ 5,510.46	\$ 5,510.46	\$ 52.51	\$ 4,594.08	\$ 264.48	\$ 4,911.07	\$ (10,215.31)



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Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
2/1/2015	(730.47)	295.52	523.62	\$ 88.67	(596.44)	73.83	393.14	\$ (129.47)	-	-	221.10	\$ 221.10	-	11.45	21.32	\$ 32.77	\$ 213.07
2/2/2015	(476.03)	70.61	873.58	\$ 468.16	(973.59)	89.08	790.99	\$ (93.52)	-	-	210.00	\$ 210.00	-	54.77	(8.94)	\$ 45.83	\$ 630.47
2/3/2015	(428.98)	155.08	737.37	\$ 463.47	(914.01)	62.05	840.94	\$ (11.02)	-	-	209.98	\$ 209.98	-	53.63	(4.57)	\$ 49.06	\$ 711.49
2/4/2015	(567.82)	173.97	540.37	\$ 146.52	(641.81)	56.57	469.77	\$ (115.47)	-	-	215.91	\$ 215.91	-	56.26	(1.17)	\$ 55.09	\$ 302.05
2/5/2015	(681.30)	164.95	581.55	\$ 65.20	(778.61)	101.56	589.49	\$ (87.56)	-	-	212.37	\$ 212.37	-	11.71	(3.73)	\$ 7.98	\$ 197.99
2/6/2015	(835.51)	4.76	557.23	\$ (273.52)	(716.46)	131.25	495.42	\$ (89.79)	-	-	226.92	\$ 226.92	-	96.60	(1.77)	\$ 94.83	\$ (41.56)
2/7/2015	(689.70)	289.17	401.38	\$ 0.85	(372.58)	45.04	319.61	\$ (7.93)	-	-	230.51	\$ 230.51	-	68.07	(5.33)	\$ 62.74	\$ 286.17
2/8/2015	(614.97)	191.61	374.98	\$ (48.38)	(237.04)	(26.75)	355.54	\$ 91.75	-	-	242.69	\$ 242.69	-	26.94	2.72	\$ 29.66	\$ 315.72
2/9/2015	(1,007.63)	626.30	603.59	\$ 222.26	(735.82)	8.86	679.69	\$ (47.27)	-	-	223.82	\$ 223.82	-	73.31	(29.05)	\$ 44.26	\$ 443.07
2/10/2015	(852.94)	(193.01)	496.63	\$ (549.32)	(481.77)	(75.70)	433.26	\$ (124.21)	-	-	215.24	\$ 215.24	-	133.28	(43.37)	\$ 89.91	\$ (368.38)
2/11/2015	(846.51)	(148.99)	752.97	\$ (242.53)	(688.19)	79.50	458.42	\$ (150.27)	-	-	212.24	\$ 212.24	-	67.76	(8.33)	\$ 59.43	\$ (121.13)
2/12/2015	(328.64)	1.81	979.05	\$ 652.22	(774.75)	140.38	713.02	\$ 78.65	-	-	210.85	\$ 210.85	-	102.99	21.70	\$ 124.69	\$ 1,066.41
2/13/2015	(632.57)	142.07	625.73	\$ 135.23	(900.72)	185.85	676.74	\$ (38.13)	-	-	216.02	\$ 216.02	-	93.23	(8.06)	\$ 85.17	\$ 398.29
2/14/2015	(737.54)	241.99	506.92	\$ 11.37	(615.22)	28.41	439.10	\$ (147.71)	-	-	216.12	\$ 216.12	-	106.11	(27.08)	\$ 79.03	\$ 158.81
2/15/2015	(1,384.71)	498.95	674.00	\$ (211.76)	(620.33)	188.69	504.35	\$ 72.71	-	-	211.61	\$ 211.61	-	99.16	10.93	\$ 110.09	\$ 182.65
2/16/2015	(996.30)	(106.63)	743.69	\$ (359.24)	(493.69)	99.90	549.96	\$ 156.17	-	-	209.68	\$ 209.68	-	81.58	46.05	\$ 127.63	\$ 134.24
2/17/2015	(1,700.94)	528.12	729.44	\$ (443.38)	(542.94)	260.06	727.50	\$ 444.62	-	-	214.16	\$ 214.16	-	116.10	63.31	\$ 179.41	\$ 394.81
2/18/2015	(1,913.30)	304.73	865.55	\$ (743.02)	(741.35)	57.50	670.24	\$ (13.61)	-	-	199.15	\$ 199.15	-	163.01	(24.49)	\$ 138.52	\$ (418.96)
2/19/2015	(243.44)	(837.47)	1,544.80	\$ 463.89	(1,215.26)	494.83	1,593.48	\$ 873.05	-	-	1,183.75	\$ 1,183.75	-	220.36	124.68	\$ 345.04	\$ 2,865.73
2/20/2015	(1,061.96)	(1,444.41)	763.54	\$ (1,742.83)	(812.97)	16.88	949.42	\$ 153.33	-	-	520.63	\$ 520.63	-	509.80	(426.23)	\$ 83.57	\$ (985.30)
2/21/2015	(3,278.09)	400.02	821.45	\$ (2,056.62)	(466.51)	66.67	376.83	\$ (23.01)	-	-	226.94	\$ 226.94	-	1,099.58	87.14	\$ 1,186.72	\$ (665.97)
2/22/2015	(1,693.11)	(215.22)	1,028.10	\$ (880.23)	(585.13)	108.63	564.15	\$ 87.65	-	-	232.27	\$ 232.27	-	586.21	9.51	\$ 595.72	\$ 35.41
2/23/2015	(1,319.70)	75.37	1,792.77	\$ 548.44	(1,770.13)	(69.55)	2,123.66	\$ 283.98	-	-	1,658.99	\$ 1,658.99	-	328.88	(46.03)	\$ 282.85	\$ 2,774.26
2/24/2015	(2,258.26)	(456.05)	1,095.35	\$ (1,618.96)	(1,042.07)	(35.92)	791.40	\$ (286.59)	-	-	541.61	\$ 541.61	-	820.98	89.70	\$ 910.68	\$ (453.26)
2/25/2015	(970.38)	(733.05)	1,242.23	\$ (461.20)	(889.92)	(114.08)	1,084.34	\$ 80.34	-	-	260.93	\$ 260.93	-	714.61	18.25	\$ 732.86	\$ 612.93
2/26/2015	(474.33)	(442.34)	995.25	\$ 78.58	(858.36)	(22.33)	977.56	\$ 96.87	-	-	547.51	\$ 547.51	-	334.91	(27.87)	\$ 307.04	\$ 1,030.00
2/27/2015	(334.40)	(157.15)	1,561.20	\$ 1,069.65	(894.75)	(110.59)	1,310.30	\$ 304.96	-	-	627.13	\$ 627.13	-	112.09	(4.35)	\$ 107.74	\$ 2,109.48
2/28/2015	(2,669.76)	1,420.55	1,167.63	\$ (81.58)	(542.10)	184.05	761.62	\$ 403.57	-	-	277.64	\$ 277.64	-	314.67	22.42	\$ 337.09	\$ 936.72
<b>Feb Total</b>	<b>\$ (29,729.29)</b>	<b>\$ 851.26</b>	<b>\$ 23,579.97</b>	<b>\$ (5,298.06)</b>	<b>\$ (20,902.52)</b>	<b>\$ 2,024.67</b>	<b>\$ 20,639.94</b>	<b>\$ 1,762.09</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 9,975.77</b>	<b>\$ 9,975.77</b>	<b>\$ -</b>	<b>\$ 6,458.05</b>	<b>\$ (152.64)</b>	<b>\$ 6,305.41</b>	<b>\$ 12,745.21</b>

NOTE: A negative number is a payment from MISO and a positive number is a payment to MISO

Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
3/1/2015	(2,332.49)	1,910.42	827.41	\$ 405.34	(638.52)	250.27	764.38	\$ 376.13	-	-	179.43	\$ 179.43	-	555.58	(3.03)	\$ 552.55	\$ 1,513.45
3/2/2015	(1,331.89)	1,169.39	941.23	\$ 778.73	(424.08)	94.13	808.03	\$ 478.08	-	-	308.76	\$ 308.76	-	184.19	-	\$ 184.19	\$ 1,749.76
3/3/2015	(161.45)	(522.02)	796.21	\$ 112.74	(287.23)	12.16	560.78	\$ 285.71	-	-	217.07	\$ 217.07	-	270.15	(33.65)	\$ 236.50	\$ 852.02
3/4/2015	(778.88)	(93.57)	1,203.20	\$ 330.75	(384.20)	(77.15)	705.93	\$ 244.58	(5.00)	2.20	199.67	\$ 196.87	-	380.65	(3.70)	\$ 376.95	\$ 1,149.15
3/5/2015	(1,118.09)	(849.94)	1,353.38	\$ (614.65)	(777.54)	433.73	1,134.87	\$ 791.06	-	-	1,078.45	\$ 1,078.45	-	1,137.38	295.81	\$ 1,433.19	\$ 2,688.05
3/6/2015	(5,693.20)	(588.27)	1,296.42	\$ (4,985.05)	(1,090.30)	923.79	1,415.69	\$ 1,249.18	-	-	(441.31)	\$ (441.31)	-	1,727.02	316.78	\$ 2,043.80	\$ (2,133.38)
3/7/2015	(2,135.94)	1,159.63	1,079.27	\$ 102.96	(491.13)	47.59	755.52	\$ 311.98	-	-	253.15	\$ 253.15	-	61.17	1.20	\$ 62.37	\$ 730.46
3/8/2015	(728.25)	223.87	824.75	\$ 320.37	(358.97)	33.92	586.83	\$ 261.78	-	-	251.39	\$ 251.39	-	153.23	(2.52)	\$ 150.71	\$ 984.25
3/9/2015	(932.75)	305.74	1,015.00	\$ 387.99	(760.54)	49.74	1,055.64	\$ 344.84	-	-	207.98	\$ 207.98	-	115.79	(1.63)	\$ 114.16	\$ 1,054.97
3/10/2015	(2,073.12)	71.42	1,036.19	\$ (965.51)	(479.00)	25.45	582.96	\$ 129.41	-	-	220.23	\$ 220.23	-	945.90	(33.88)	\$ 912.02	\$ 296.15
3/11/2015	(1,790.16)	143.20	938.07	\$ (708.89)	(657.71)	37.06	783.25	\$ 162.60	-	-	228.75	\$ 228.75	-	667.99	61.49	\$ 729.48	\$ 411.94
3/12/2015	(1,314.67)	626.52	587.09	\$ (101.06)	(707.66)	(12.19)	609.50	\$ (110.35)	-	-	241.12	\$ 241.12	-	340.57	(8.26)	\$ 332.31	\$ 362.02
3/13/2015	(2,272.81)	1,261.24	1,014.23	\$ 2.66	(614.62)	20.59	610.18	\$ 16.15	-	-	229.54	\$ 229.54	-	175.99	4.70	\$ 180.69	\$ 429.04
3/14/2015	(1,598.05)	780.57	840.35	\$ 22.87	(408.65)	79.74	387.14	\$ 58.23	-	-	255.18	\$ 255.18	-	411.70	(5.29)	\$ 406.41	\$ 742.69
3/15/2015	(310.49)	(118.15)	591.87	\$ 163.23	(390.73)	(296.69)	361.07	\$ (326.35)	-	-	260.00	\$ 260.00	-	313.95	(21.42)	\$ 292.53	\$ 389.41
3/16/2015	(1,077.03)	320.53	1,033.22	\$ 276.72	(524.12)	(15.20)	648.74	\$ 109.42	-	-	241.94	\$ 241.94	-	153.72	(17.44)	\$ 136.28	\$ 764.36
3/17/2015	(1,561.34)	16.04	1,084.93	\$ (460.37)	(607.96)	(320.08)	794.51	\$ (133.53)	-	-	351.36	\$ 351.36	-	508.69	117.66	\$ 626.35	\$ 383.81
3/18/2015	(1,458.31)	(0.54)	1,011.56	\$ (447.29)	(333.16)	42.72	611.08	\$ 320.64	-	-	251.41	\$ 251.41	-	352.42	(31.83)	\$ 320.59	\$ 445.35
3/19/2015	(2,250.47)	256.62	985.13	\$ (1,008.72)	(364.00)	(266.15)	731.70	\$ 101.55	-	-	316.65	\$ 316.65	-	651.43	21.81	\$ 673.24	\$ 82.72
3/20/2015	(1,454.83)	92.96	944.39	\$ (417.48)	(419.48)	55.92	781.02	\$ 417.46	-	-	248.41	\$ 248.41	-	270.15	16.66	\$ 286.81	\$ 535.20
3/21/2015	(1,588.79)	(161.00)	752.59	\$ (997.20)	(380.37)	56.00	604.52	\$ 280.15	-	-	263.18	\$ 263.18	-	651.18	51.63	\$ 702.81	\$ 248.94
3/22/2015	(1,212.07)	(28.30)	669.91	\$ (570.46)	(466.00)	67.73	501.09	\$ 102.82	-	-	254.73	\$ 254.73	-	421.60	(16.60)	\$ 405.00	\$ 192.09
3/23/2015	(1,242.17)	160.54	957.22	\$ (124.41)	(659.96)	102.56	833.92	\$ 276.52	-	-	223.46	\$ 223.46	-	205.76	(22.44)	\$ 183.32	\$ 558.89
3/24/2015	(1,284.02)	339.70	864.49	\$ (79.83)	(400.36)	70.66	532.75	\$ 203.05	-	-	247.58	\$ 247.58	-	199.08	39.80	\$ 238.88	\$ 609.68
3/25/2015	(1,029.38)	269.32	671.45	\$ (88.61)	(262.97)	60.47	438.92	\$ 236.42	-	-	204.35	\$ 204.35	-	64.20	19.73	\$ 83.93	\$ 436.09
3/26/2015	(504.40)	(1.14)	843.40	\$ 337.86	(469.86)	118.01	742.06	\$ 390.21	-	-	277.11	\$ 277.11	-	45.62	14.46	\$ 60.08	\$ 1,065.26
3/27/2015	(474.65)	64.77	882.85	\$ 472.97	(442.48)	36.34	1,156.19	\$ 750.05	-	-	256.67	\$ 256.67	-	91.43	(1.17)	\$ 90.26	\$ 1,569.95
3/28/2015	(1,637.73)	900.64	834.61	\$ 97.52	(549.29)	94.92	686.74	\$ 232.37	-	-	242.32	\$ 242.32	-	95.18	2.32	\$ 97.50	\$ 669.71
3/29/2015	(348.13)	141.29	649.75	\$ 442.91	(459.32)	75.74	410.20	\$ 26.62	-	-	233.46	\$ 233.46	-	20.06	(2.35)	\$ 17.71	\$ 720.70
3/30/2015	(1,063.34)	116.40	816.00	\$ (130.94)	(612.58)	80.62	659.13	\$ 127.17	-	-	245.87	\$ 245.87	-	108.36	(3.75)	\$ 104.61	\$ 346.71
3/31/2015	(538.80)	(261.46)	636.96	\$ (163.30)	(472.91)	66.99	701.40	\$ 295.48	-	-	228.31	\$ 228.31	-	101.46	7.48	\$ 108.94	\$ 469.43
<b>Mar Total</b>	<b>\$ (43,297.70)</b>	<b>\$ 7,706.42</b>	<b>\$ 27,983.13</b>	<b>\$ (7,608.15)</b>	<b>\$ (15,895.70)</b>	<b>\$ 1,949.39</b>	<b>\$ 21,955.74</b>	<b>\$ 8,009.43</b>	<b>\$ (5.00)</b>	<b>\$ 2.20</b>	<b>\$ 7,776.22</b>	<b>\$ 7,773.42</b>	<b>\$ -</b>	<b>\$ 11,381.60</b>	<b>\$ 762.57</b>	<b>\$ 12,144.17</b>	<b>\$ 20,318.87</b>

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Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
4/1/2015	(498.65)	63.01	804.44	\$ 368.80	(378.29)	59.98	589.43	\$ 271.12	-	-	254.75	\$ 254.75	-	104.54	2.49	\$ 107.03	\$ 1,001.70
4/2/2015	(406.47)	145.82	721.73	\$ 461.08	(452.00)	48.15	687.81	\$ 283.96	-	-	246.90	\$ 246.90	-	30.00	1.47	\$ 31.47	\$ 1,023.41
4/3/2015	(205.12)	(160.00)	643.82	\$ 278.70	(272.60)	(13.46)	545.02	\$ 258.96	-	-	277.22	\$ 277.22	-	116.74	16.24	\$ 132.98	\$ 947.86
4/4/2015	(537.10)	(49.38)	789.68	\$ 203.20	(348.97)	37.01	569.73	\$ 257.77	-	-	246.83	\$ 246.83	-	76.16	(7.77)	\$ 68.39	\$ 776.19
4/5/2015	(552.88)	155.52	678.97	\$ 281.61	(295.37)	39.88	485.77	\$ 230.28	-	-	240.52	\$ 240.52	-	129.07	(16.00)	\$ 113.07	\$ 865.48
4/6/2015	(947.10)	(170.29)	720.56	\$ (396.83)	(564.58)	61.34	879.35	\$ 376.11	-	-	266.03	\$ 266.03	-	373.01	35.27	\$ 408.28	\$ 653.59
4/7/2015	(1,124.15)	119.79	898.53	\$ (105.83)	(557.70)	81.27	800.72	\$ 324.29	-	-	268.83	\$ 268.83	-	101.47	(6.87)	\$ 94.60	\$ 581.89
4/8/2015	(1,273.70)	257.28	532.34	\$ (484.08)	(429.74)	177.04	868.26	\$ 615.56	-	-	250.75	\$ 250.75	-	110.83	228.64	\$ 339.47	\$ 721.70
4/9/2015	(1,375.65)	206.09	545.00	\$ (624.56)	(353.13)	18.85	596.54	\$ 262.26	-	-	310.48	\$ 310.48	-	163.38	49.10	\$ 212.48	\$ 160.66
4/10/2015	(916.99)	(265.92)	658.61	\$ (524.30)	(136.82)	(22.30)	487.07	\$ 327.95	-	-	276.64	\$ 276.64	-	114.27	11.78	\$ 126.05	\$ 206.34
4/11/2015	(688.42)	216.11	601.20	\$ 128.89	(318.70)	69.88	442.70	\$ 193.88	-	-	232.16	\$ 232.16	-	42.38	(11.98)	\$ 30.40	\$ 585.33
4/12/2015	(118.81)	(733.76)	617.03	\$ (235.54)	(145.57)	35.24	268.57	\$ 158.24	-	-	212.59	\$ 212.59	-	181.37	(1.21)	\$ 180.16	\$ 315.45
4/13/2015	(1,081.44)	(111.98)	455.00	\$ (738.42)	(353.83)	2.86	644.42	\$ 293.45	-	-	181.38	\$ 181.38	-	183.53	57.12	\$ 240.65	\$ (22.94)
4/14/2015	(1,010.44)	(126.36)	691.86	\$ (444.94)	(343.49)	(32.98)	744.10	\$ 367.63	-	-	233.29	\$ 233.29	-	257.78	(31.87)	\$ 225.91	\$ 381.89
4/15/2015	(1,721.46)	717.66	840.67	\$ (163.13)	(449.27)	69.79	798.94	\$ 419.46	-	-	271.90	\$ 271.90	-	105.64	13.52	\$ 119.16	\$ 647.39
4/16/2015	(1,449.24)	(718.15)	948.17	\$ (1,219.22)	(472.10)	(42.99)	1,138.83	\$ 623.74	-	(2.00)	252.76	\$ 250.76	-	488.27	36.30	\$ 524.57	\$ 179.85
4/17/2015	(781.26)	169.49	873.58	\$ 261.81	(571.34)	(16.25)	1,117.87	\$ 530.28	-	-	213.14	\$ 213.14	-	80.46	4.14	\$ 84.60	\$ 1,089.83
4/18/2015	(890.91)	153.26	904.77	\$ 167.12	(290.00)	64.92	416.98	\$ 191.90	-	-	256.72	\$ 256.72	-	170.32	5.04	\$ 175.36	\$ 791.10
4/19/2015	(366.68)	(43.44)	704.95	\$ 294.83	(168.51)	(10.84)	385.54	\$ 206.19	-	-	248.59	\$ 248.59	-	117.30	(1.39)	\$ 115.91	\$ 865.52
4/20/2015	(711.68)	324.63	1,088.42	\$ 701.37	(354.55)	15.87	688.84	\$ 350.16	-	-	237.03	\$ 237.03	-	32.00	(10.07)	\$ 21.93	\$ 1,310.49
4/21/2015	(613.75)	160.13	777.33	\$ 323.71	(339.38)	20.29	595.77	\$ 276.68	-	-	189.41	\$ 189.41	-	109.11	(7.48)	\$ 101.63	\$ 891.43
4/22/2015	(592.20)	168.09	670.61	\$ 246.50	(441.06)	9.02	803.94	\$ 371.90	-	-	213.58	\$ 213.58	-	111.35	(9.66)	\$ 101.69	\$ 933.67
4/23/2015	(533.96)	(166.33)	750.92	\$ 50.63	(490.24)	22.94	808.72	\$ 341.42	-	-	233.84	\$ 233.84	-	126.50	(2.86)	\$ 123.64	\$ 749.53
4/24/2015	(1,756.51)	581.82	781.04	\$ (393.65)	(382.17)	46.19	650.96	\$ 314.98	-	-	249.00	\$ 249.00	-	116.75	(11.26)	\$ 105.49	\$ 275.82
4/25/2015	(1,007.23)	317.44	486.48	\$ (203.31)	(288.38)	56.26	355.94	\$ 123.82	-	-	219.23	\$ 219.23	-	131.43	(28.16)	\$ 103.27	\$ 243.01
4/26/2015	(1,148.99)	95.38	548.82	\$ (504.79)	(274.38)	67.13	398.43	\$ 191.18	-	-	229.09	\$ 229.09	-	134.87	(17.05)	\$ 117.82	\$ 33.30
4/27/2015	(1,662.04)	(131.69)	1,041.74	\$ (751.99)	(297.10)	(10.64)	731.60	\$ 423.86	-	-	221.36	\$ 221.36	-	357.74	2.37	\$ 360.11	\$ 253.34
4/28/2015	(840.51)	(42.27)	916.23	\$ 33.45	(319.97)	12.80	719.66	\$ 412.49	-	-	288.69	\$ 288.69	-	96.75	(12.38)	\$ 84.37	\$ 819.00
4/29/2015	(1,206.51)	168.36	1,006.12	\$ (32.03)	(471.32)	43.47	851.70	\$ 423.85	-	-	224.91	\$ 224.91	-	123.13	(3.83)	\$ 119.30	\$ 736.03
4/30/2015	(741.14)	121.15	632.38	\$ 12.39	(311.51)	27.75	635.43	\$ 351.67	-	-	244.37	\$ 244.37	-	54.55	(34.63)	\$ 19.92	\$ 628.35
<b>Apr total</b>	<b>\$ (26,760.99)</b>	<b>\$ 1,421.46</b>	<b>\$ 22,331.00</b>	<b>\$ (3,008.53)</b>	<b>\$ (10,872.07)</b>	<b>\$ 938.47</b>	<b>\$ 19,708.64</b>	<b>\$ 9,775.04</b>	<b>\$ -</b>	<b>\$ (2.00)</b>	<b>\$ 7,291.99</b>	<b>\$ 7,289.99</b>	<b>\$ -</b>	<b>\$ 4,340.70</b>	<b>\$ 249.01</b>	<b>\$ 4,589.71</b>	<b>\$ 18,646.21</b>



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Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
5/1/2015	(940.50)	(28.83)	428.67	\$ (540.66)	(256.96)	50.48	403.43	\$ 196.95	-	-	197.57	\$ 197.57	-	231.21	(52.04)	\$ 179.17	\$ 33.03
5/2/2015	(1,057.90)	842.22	480.23	\$ 264.55	(317.37)	26.01	452.58	\$ 161.22	-	-	204.11	\$ 204.11	-	188.58	(40.08)	\$ 148.50	\$ 778.38
5/3/2015	(1,160.91)	(38.32)	729.81	\$ (469.42)	(529.23)	103.70	589.37	\$ 163.84	-	-	211.62	\$ 211.62	-	111.04	(50.18)	\$ 60.86	\$ (33.10)
5/4/2015	(1,289.44)	(16.62)	837.23	\$ (468.83)	(475.69)	17.99	778.01	\$ 320.31	-	-	222.85	\$ 222.85	-	179.96	4.46	\$ 184.42	\$ 258.75
5/5/2015	(1,324.17)	64.34	835.14	\$ (424.69)	(347.07)	16.97	485.78	\$ 155.68	-	-	227.25	\$ 227.25	-	43.67	31.07	\$ 74.74	\$ 32.98
5/6/2015	(1,420.50)	582.81	886.74	\$ 49.05	(370.19)	27.46	442.90	\$ 100.17	-	-	204.69	\$ 204.69	-	150.58	0.32	\$ 150.90	\$ 504.81
5/7/2015	(1,722.73)	265.63	1,011.61	\$ (445.49)	(438.90)	14.75	529.46	\$ 105.31	-	-	207.08	\$ 207.08	-	30.72	(11.36)	\$ 19.36	\$ (113.74)
5/8/2015	(800.86)	(506.62)	974.35	\$ (333.13)	(878.12)	22.46	1,032.49	\$ 176.83	-	-	170.70	\$ 170.70	-	108.92	67.14	\$ 176.06	\$ 190.46
5/9/2015	(1,581.86)	34.40	700.60	\$ (846.86)	(773.07)	189.18	602.20	\$ 18.31	-	-	216.41	\$ 216.41	-	406.16	(19.47)	\$ 386.69	\$ (225.45)
5/10/2015	(1,235.68)	(22.77)	713.36	\$ (545.09)	(366.46)	65.76	365.18	\$ 64.48	-	-	214.62	\$ 214.62	-	87.91	(17.18)	\$ 70.73	\$ (195.26)
5/11/2015	(1,555.42)	307.50	686.62	\$ (561.30)	(583.81)	71.55	550.63	\$ 38.37	-	-	270.94	\$ 270.94	-	72.23	(8.01)	\$ 64.22	\$ (187.77)
5/12/2015	(1,549.99)	46.57	572.26	\$ (931.16)	(572.19)	82.32	532.63	\$ 42.76	-	-	231.77	\$ 231.77	-	162.64	14.88	\$ 177.52	\$ (479.11)
5/13/2015	(106.55)	(271.53)	548.75	\$ 170.67	(375.03)	172.49	280.02	\$ 77.48	-	-	247.05	\$ 247.05	-	91.19	9.19	\$ 100.38	\$ 595.58
5/14/2015	(371.43)	(324.19)	635.24	\$ (60.38)	(433.81)	85.28	426.67	\$ 78.14	-	-	223.43	\$ 223.43	-	58.93	22.30	\$ 81.23	\$ 322.42
5/15/2015	(1,703.30)	173.92	791.26	\$ (738.12)	(786.60)	131.58	774.20	\$ 119.18	-	-	222.12	\$ 222.12	-	455.79	46.42	\$ 502.21	\$ 105.39
5/16/2015	(2,221.27)	7.04	730.90	\$ (1,483.33)	(639.50)	78.30	603.81	\$ 42.61	-	-	190.28	\$ 190.28	-	298.97	(68.55)	\$ 230.42	\$ (1,020.02)
5/17/2015	(1,801.31)	292.82	726.67	\$ (781.82)	(911.44)	145.99	578.69	\$ (186.76)	-	-	183.64	\$ 183.64	-	125.09	(84.93)	\$ 40.16	\$ (744.78)
5/18/2015	(2,410.54)	463.91	1,025.31	\$ (921.32)	(790.30)	(423.25)	713.84	\$ (499.71)	-	-	151.28	\$ 151.28	-	250.89	(145.21)	\$ 105.68	\$ (1,164.07)
5/19/2015	(1,932.75)	405.64	789.20	\$ (737.91)	(819.46)	(46.14)	809.07	\$ (56.53)	-	-	210.38	\$ 210.38	-	60.55	73.67	\$ 134.22	\$ (449.84)
5/20/2015	(777.94)	(658.71)	816.95	\$ (619.70)	(716.15)	44.85	711.44	\$ 40.14	-	-	187.34	\$ 187.34	-	48.96	28.24	\$ 77.20	\$ (315.02)
5/21/2015	(1,751.55)	497.37	737.40	\$ (516.78)	(911.13)	99.61	831.90	\$ 20.38	-	-	184.29	\$ 184.29	-	22.50	(14.93)	\$ 7.57	\$ (304.54)
5/22/2015	(1,583.72)	(152.97)	742.67	\$ (994.02)	(634.91)	50.02	663.25	\$ 78.36	-	-	196.85	\$ 196.85	-	252.00	17.32	\$ 269.32	\$ (449.49)
5/23/2015	(732.01)	(624.86)	566.99	\$ (789.88)	(604.64)	74.95	606.29	\$ 76.60	-	-	188.61	\$ 188.61	-	56.49	(4.11)	\$ 52.38	\$ (472.29)
5/24/2015	(471.82)	(429.57)	635.21	\$ (266.18)	(467.25)	70.12	496.96	\$ 99.83	-	-	192.22	\$ 192.22	-	86.49	(9.76)	\$ 76.73	\$ 102.60
5/25/2015	(1,122.23)	(939.66)	630.86	\$ (1,431.03)	(507.76)	52.47	505.22	\$ 49.93	-	-	181.23	\$ 181.23	-	218.02	66.25	\$ 284.27	\$ (915.60)
5/26/2015	(495.61)	(929.70)	797.68	\$ (627.63)	(821.10)	117.33	788.14	\$ 84.37	-	-	195.16	\$ 195.16	-	117.56	43.75	\$ 161.31	\$ (186.79)
5/27/2015	(664.99)	150.01	908.76	\$ 393.78	(893.27)	27.11	984.09	\$ 117.93	-	-	177.08	\$ 177.08	-	75.59	(1.33)	\$ 74.26	\$ 763.05
5/28/2015	(1,406.42)	445.36	577.31	\$ (383.75)	(737.92)	37.25	695.93	\$ (4.74)	-	-	178.37	\$ 178.37	-	120.19	14.80	\$ 134.99	\$ (75.13)
5/29/2015	(1,537.65)	84.96	565.92	\$ (886.77)	(874.79)	56.05	702.54	\$ (116.20)	-	-	179.64	\$ 179.64	-	367.20	18.59	\$ 385.79	\$ (437.54)
5/30/2015	(1,062.91)	(477.79)	483.51	\$ (1,057.19)	(449.82)	(6.52)	446.53	\$ (9.81)	-	-	168.97	\$ 168.97	-	305.05	61.79	\$ 366.84	\$ (531.19)
5/31/2015	(1,450.98)	(420.86)	658.85	\$ (1,212.99)	(355.62)	83.17	331.30	\$ 58.85	-	-	184.10	\$ 184.10	-	366.69	40.24	\$ 406.93	\$ (563.11)
<b>May Total</b>	<b>\$ (39,244.94)</b>	<b>\$ (1,178.50)</b>	<b>\$ 22,226.06</b>	<b>\$ (18,197.38)</b>	<b>\$ (18,639.56)</b>	<b>\$ 1,539.29</b>	<b>\$ 18,714.55</b>	<b>\$ 1,614.28</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,221.65</b>	<b>\$ 6,221.65</b>	<b>\$ -</b>	<b>\$ 5,151.77</b>	<b>\$ 33.29</b>	<b>\$ 5,185.06</b>	<b>\$ (5,176.39)</b>

NOTE: A negative number is a payment from MISO and a positive number is a payment to MISO

Date	Day Ahead Regulation Amount	Real Time Regulation Amount	Regulation Cost Distribution Amount	Regulation SubTotal	Day Ahead Spinning Reserve Amount	Real Time Spinning Reserve Amount	Spinning Reserve Cost Distribution Amount	Spinning Reserve SubTotal	Day Ahead Supplemental Reserve Amount	Real Time Supplemental Reserve Amount	Supplemental Reserve Cost Distribution Amount	Supplemental Reserve SubTotal	Contingency Reserve Deployment Failure Charge Amount	Real Time Excessive Deficient Energy Deployment Charge Amount	Net Regulation Adjustment Amount	Other Charge SubTotal	Net Benefit
42,156.00	(331.73)	(795.64)	798.70	\$ (328.67)	(976.23)	365.38	594.77	\$ (16.08)	-	-	173.15	\$ 173.15	-	229.08	(23.65)	\$ 205.43	\$ 33.83
42,157.00	(1,100.09)	179.72	643.64	\$ (276.73)	(505.94)	26.20	534.12	\$ 54.38	-	-	202.40	\$ 202.40	-	113.58	64.78	\$ 178.36	\$ 158.41
42,158.00	(1,380.03)	91.18	587.83	\$ (701.02)	(606.22)	(81.30)	645.82	\$ (41.70)	-	-	184.50	\$ 184.50	-	291.71	(10.31)	\$ 281.40	\$ (276.82)
42,159.00	(245.83)	(236.40)	626.90	\$ 144.67	(895.44)	26.67	678.21	\$ (190.56)	-	-	171.17	\$ 171.17	-	33.62	37.84	\$ 71.46	\$ 196.74
42,160.00	(1,070.99)	396.91	518.57	\$ (155.51)	(733.38)	52.91	517.87	\$ (162.60)	-	-	172.90	\$ 172.90	-	85.58	(0.49)	\$ 85.09	\$ (60.12)
42,161.00	(946.85)	242.40	506.93	\$ (197.52)	(355.73)	30.19	232.03	\$ (93.51)	-	-	162.74	\$ 162.74	-	84.87	10.30	\$ 95.17	\$ (33.12)
42,162.00	(1,623.72)	206.53	673.34	\$ (743.85)	(484.33)	145.29	347.73	\$ 8.69	-	-	147.21	\$ 147.21	-	254.47	(12.22)	\$ 242.25	\$ (345.70)
42,163.00	(377.38)	(196.41)	560.92	\$ (12.87)	(832.74)	165.67	581.07	\$ (86.00)	-	-	158.83	\$ 158.83	-	153.68	2.02	\$ 155.70	\$ 215.66
42,164.00	(245.20)	(32.30)	449.82	\$ 172.32	(546.68)	204.26	471.50	\$ 129.08	-	-	325.23	\$ 325.23	-	83.56	8.15	\$ 91.71	\$ 718.34
42,165.00	(300.93)	(770.00)	445.78	\$ (625.15)	(712.10)	(1.77)	739.99	\$ 26.12	-	-	313.68	\$ 313.68	-	126.85	41.33	\$ 168.18	\$ (117.17)
42,166.00	(1,042.58)	(98.31)	494.28	\$ (646.61)	(311.54)	146.83	434.41	\$ 269.70	-	-	168.90	\$ 168.90	-	120.16	2.59	\$ 122.75	\$ (85.26)
42,167.00	(306.82)	(683.04)	488.47	\$ (501.39)	(321.86)	62.09	646.73	\$ 386.96	-	-	170.12	\$ 170.12	-	201.21	10.49	\$ 211.70	\$ 267.39
42,168.00	(1,165.51)	66.36	448.07	\$ (651.08)	(284.13)	37.00	488.70	\$ 241.57	-	-	159.51	\$ 159.51	-	153.53	53.69	\$ 207.22	\$ (42.78)
42,169.00	(904.40)	(341.19)	445.51	\$ (800.08)	(485.11)	67.79	615.84	\$ 198.52	-	-	140.76	\$ 140.76	-	126.95	81.72	\$ 208.67	\$ (252.13)
42,170.00	(1,171.43)	250.38	512.05	\$ (409.00)	(693.58)	(27.21)	765.79	\$ 45.00	-	-	155.41	\$ 155.41	-	28.89	23.95	\$ 52.84	\$ (155.75)
42,171.00	(859.39)	(457.03)	332.33	\$ (984.09)	(419.18)	(849.66)	492.66	\$ (776.18)	-	-	142.60	\$ 142.60	-	78.25	233.04	\$ 311.29	\$ (1,306.38)
42,172.00	(1,284.98)	281.78	494.06	\$ (509.14)	(479.22)	(3.12)	568.54	\$ 86.20	-	-	162.84	\$ 162.84	-	43.23	25.98	\$ 69.21	\$ (190.89)
42,173.00	(1,728.95)	591.13	636.38	\$ (501.44)	(1,118.40)	156.80	887.54	\$ (74.06)	-	-	181.98	\$ 181.98	-	90.44	16.47	\$ 106.91	\$ (286.61)
42,174.00	(1,481.10)	334.12	538.62	\$ (608.36)	(735.60)	62.42	514.64	\$ (158.54)	-	-	174.21	\$ 174.21	-	130.39	9.23	\$ 139.62	\$ (453.07)
42,175.00	(1,204.19)	280.38	519.72	\$ (404.09)	(932.82)	173.24	587.35	\$ (172.23)	-	-	149.50	\$ 149.50	-	109.26	2.34	\$ 111.60	\$ (315.22)
42,176.00	(1,565.30)	400.61	502.86	\$ (661.83)	(2,523.75)	2,855.24	977.57	\$ 1,309.06	-	-	(30.73)	\$ (30.73)	-	416.24	(63.46)	\$ 352.78	\$ 969.28
42,177.00	(1,476.16)	8.87	460.58	\$ (1,006.71)	(1,026.60)	458.59	637.20	\$ 69.19	-	-	484.70	\$ 484.70	-	174.60	90.97	\$ 265.57	\$ (187.25)
42,178.00	(479.05)	(441.10)	629.99	\$ (290.16)	(1,263.55)	412.79	624.34	\$ (226.42)	-	-	181.94	\$ 181.94	-	32.86	65.55	\$ 98.41	\$ (236.23)
42,179.00	(732.56)	(7.57)	654.46	\$ (85.67)	(1,025.56)	26.16	934.21	\$ (65.19)	-	-	429.07	\$ 429.07	-	93.01	12.42	\$ 105.43	\$ 383.64
42,180.00	(453.29)	(134.25)	528.42	\$ (59.12)	(1,159.27)	145.69	741.51	\$ (272.07)	-	-	404.22	\$ 404.22	-	114.24	1.07	\$ 115.31	\$ 188.34
42,181.00	(997.14)	652.95	539.95	\$ 195.76	(1,113.53)	515.45	658.75	\$ 60.67	-	-	163.77	\$ 163.77	-	96.10	(19.50)	\$ 76.60	\$ 496.80
42,182.00	(1,055.65)	183.12	557.95	\$ (314.58)	(635.04)	200.94	743.40	\$ 309.30	-	-	177.22	\$ 177.22	-	394.49	7.50	\$ 401.99	\$ 573.93
42,183.00	(1,152.29)	192.46	690.69	\$ (269.14)	(500.82)	75.19	542.27	\$ 116.64	-	-	164.72	\$ 164.72	-	69.59	4.60	\$ 74.19	\$ 86.41
42,184.00	(521.77)	(128.72)	659.18	\$ 8.69	(839.51)	348.39	750.35	\$ 259.23	-	-	173.23	\$ 173.23	-	40.23	74.25	\$ 114.48	\$ 555.63
42,185.00	(460.89)	(92.89)	755.32	\$ 201.54	(877.88)	166.57	1,057.84	\$ 346.53	-	-	185.79	\$ 185.79	-	96.47	(4.68)	\$ 91.79	\$ 825.65
<b>June Total</b>	<b>\$ (27,666.20)</b>	<b>\$ (55.95)</b>	<b>\$ 16,701.32</b>	<b>\$ (11,020.83)</b>	<b>\$ (23,395.74)</b>	<b>\$ 5,964.69</b>	<b>\$ 19,012.75</b>	<b>\$ 1,581.70</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,951.57</b>	<b>\$ 5,951.57</b>	<b>\$ -</b>	<b>\$ 4,067.14</b>	<b>\$ 745.97</b>	<b>\$ 4,813.11</b>	<b>\$ 1,325.55</b>
<b>Period to Date Total</b>	<b>\$ (406,442.55)</b>	<b>\$ 40,857.11</b>	<b>\$ 302,354.15</b>	<b>\$ (63,231.29)</b>	<b>\$ (235,426.37)</b>	<b>\$ (3,261.36)</b>	<b>\$ 267,984.60</b>	<b>\$ 29,296.87</b>	<b>\$ (133.51)</b>	<b>\$ 34.63</b>	<b>\$ 112,013.26</b>	<b>\$ 111,914.38</b>	<b>\$ 287.55</b>	<b>\$ 78,916.23</b>	<b>\$ 4,735.92</b>	<b>\$ 83,939.70</b>	<b>\$ 161,919.66</b>

**CRD Events**

Date	Day of Week	Node	Contingency Reserve Deployment Failure Charge Amount	HE	Shortfall Mw	Event MW Provided
8/9/2014	Saturday	MP.LASKIN2	\$ 126.92	17	2.0	6.0
8/16/2014	Saturday	MP.TACHB3	\$ 108.12	20	3.0	8.2
1/23/2015	Friday	MP.LASKIN1	\$ 52.51	13	2.2	2.2
Total			\$ 287.55		7.2	

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

**PUBLIC DOCUMENT –  
TRADE SECRET DATA HAS BEEN EXCISED**

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

**[TRADE SECRET DATA HAS BEEN EXCISED]**

**Minnesota Power’s Self Scheduled FTRs from the 2014/2015 and 2015/2016 Annual Allocation:**

		2014/2015 Annual Allocation							
		Summer 2014		Fall 2014		Winter 2014/2015		Spring 2015	
Source	Sink	On Peak	Off peak	On Peak	Off Peak	On Peak	Off Peak	On Peak	Off Peak
<b>[TRADE SECRET DATA EXCISED]</b>									
[REDACTED]									
<b>[TRADE SECRET DATA EXCISED]</b>									

***Annual FTR Allocation Continued:***

		2015/2016 Annual Allocation	
		Summer 2015	
Source	Sink	On Peak	Off Peak
<b>[TRADE SECRET DATA EXCISED]</b>			
[REDACTED]			





**PUBLIC DOCUMENT –  
TRADE SECRET DATA HAS BEEN EXCISED**

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

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

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 555 of the General Ledger and included in the FAC recovery.

Charge Type		July '13	August '13	September '13	October '13	November '13	December '13	January '14	February '14	March '14	April '14	May '14	June '14	Total
Financial Transmission Rights Market Administration Amount	Cost	7,435.60	7,576.48	5,041.60	6,535.76	6,006.40	6,901.84	6,657.36	7,367.36	7,598.88	6,758.88	7,234.80	7,152.10	82,267.06
Auction Revenue Rights Transaction Amount	Revenue	(372,830.26)	(372,830.26)	(298,018.27)	(298,018.27)	(298,018.27)	(273,408.92)	(273,408.92)	(273,408.92)	(397,783.73)	(397,783.73)	(397,783.73)	(512,442.17)	(4,165,735.45)
Financial Transmission Rights Annual Transaction Amount	Cost	372,796.73	372,796.73	298,003.38	298,003.38	298,003.38	273,410.55	273,410.55	273,410.55	397,778.38	397,778.38	397,778.38	508,969.36	4,162,139.75
Auction Revenue Rights Infeasible Uplift Amount	Revenue	35,414.26	35,320.72	43,608.64	43,608.64	43,608.64	28,317.92	28,317.92	28,317.92	45,902.58	45,902.58	45,902.58	34,883.02	459,105.42
Auction Revenue Rights Stage 2 Distribution Amount	Revenue	(142,724.95)	(141,305.23)	(194,887.55)	(195,179.85)	(195,183.51)	(175,275.46)	(177,839.68)	(177,839.68)	(137,449.11)	(137,951.38)	(138,073.86)	(111,642.38)	(1,925,352.64)
Financial Transmission Rights Hourly Allocation Amount	Revenue	(456,780.00)	(75,851.45)	(2,377,793.52)	(132,551.68)	(315,153.83)	(758,960.83)	(2,950,350.43)	(3,317,732.54)	(1,844,710.10)	(522,443.24)	(626,676.76)	(269,706.17)	(13,648,710.55)
Financial Transmission Rights Monthly Allocation Amount	Revenue	(13,747.95)	(6,904.22)	(92,958.54)	(2,860.53)	(10,366.22)	(31,932.27)	(86,003.14)	(125,792.38)	(123,796.91)	(22,144.98)	(23,314.38)	-	(539,821.52)
Financial Transmission Rights Transaction Amount	Cost													-
Financial Transmission Rights Yearly Allocation Amount	Revenue	-	-	-	-	-	(22,931.48)	-	-	-	-	-	-	(22,931.48)
Financial Transmission Rights Full Funding Guarantee Amount	Revenue	-	-	-	(7,159.56)	(24,425.42)	14,552.03	-	(147,981.60)	(9,617.53)	(121,887.23)	(19,889.88)	(17,795.48)	(334,204.67)
FTR Guarantee Uplift Amount	Revenue	-	-	-	11,162.93	25,317.09	148,659.44	-	113,903.37	13,050.58	124,440.80	24,444.97	17,795.48	478,774.66
Financial Transmission Rights Monthly Transaction Amount	Cost	94,339.67	11,154.14	4,565.80	2,954.79	6,158.59	3,661.84	22,132.96	-	12,281.54	92,646.69	19,538.41	41,483.21	310,917.64
Costs of hold FTRs	Cost	474,572.00	391,527.35	307,610.78	307,493.93	310,168.37	283,974.23	302,200.87	280,777.91	417,658.80	497,183.95	424,551.59	557,604.67	4,555,324.45
Revenue Generated from ARRs/FTRs	Revenue	(950,668.90)	(561,570.44)	(2,920,049.24)	(580,998.32)	(774,221.52)	(1,070,979.57)	(3,459,284.25)	(3,900,533.83)	(2,454,404.22)	(1,031,867.18)	(1,135,391.06)	(858,907.70)	(19,698,876.23)

Minnesota Power's Generation Facilities  
Maintenance Expenses

(Docket No. E999/AA-06-1208 dated February 6, 2008)

	FERC Acct	Final Rates		
		2014 Actual Expenses	Test Year 2010	2013 Actual Expenses
<b><u>Steam Power Generation</u></b>				
Maintenance Supervision and Engineering	510	5,116,835	6,911,666	5,002,857
Maintenance of Structures	511	1,581,838	5,790,920	1,549,679
Maintenance of Boiler Plant	512	18,800,545	10,366,204	18,280,808
Maintenance of Electric Plant	513	2,995,960	1,386,050	3,256,789
Maintenance of Misc. Steam Plant	514	4,900,806	5,977,730	4,439,875
		<u>33,395,984</u>	<u>30,432,570</u>	<u>32,530,008</u>
<b><u>Hydraulic Power Generation</u></b>				
Maintenance Supervision and Engineering	541	550,753	1,255,984	572,946
Maintenance of Structures	542	196,550	950,000	261,524
Maintenance of Reservoirs, Dams and Waterways	543	781,297	-	960,020
Maintenance of Electric Plant	544	1,167,143	980,640	1,295,548
Maintenance of Misc. Hydraulic Plant	545	1,584,546	-	945,605
		<u>4,280,289</u>	<u>3,186,624</u>	<u>4,035,643</u>

1/ 2014 FERC Form 1 page 320.

2/Attachment 12 page 3 of 5, lines 10, 6, 11, 12, 7, 20, 21 and 23.

3/ 2013 FERC Form 1 page 320.

**Docket E015/GR-09-1151**  
**Minnesota Power**  
**FINAL 2010 General Rates**

				Total Company Compliance 2010	
<u>Utility Operating Expense</u>	FERC	Total	Final	Cost of	
Operations & Maintenance Exp.	<u>Acct No.</u>	<u>Amounts</u>	<u>Adjustments</u>	<u>Service Model</u>	<u>Allocator</u>
<b>Steam Production Demand</b>					
1 Supervision & Engineering	500	1,629,651			DPROD
2 Steam Expenses	502	26,664,197			DPROD
3 Steam from other sources	503	3,034,305			DPROD
4 Electric Expenses	505	7,624,740			DPROD
5 Miscellaneous	506	6,142,546			DPROD
6 Maint. Structures	511	5,790,920			DPROD
7 Misc Maint Plant	514	5,977,730			DPROD
<b>8 Total Demand Steam Production</b>		<b>56,864,089</b>			<b>DPROD</b>
<b>9 Steam Production Energy:</b>					
10 Maint. Supervision & Engineering	510	6,911,666			EPROD
11 Maint. Boiler Plant	512	13,485,442	(3,119,238)	10,366,204	EPROD
12 Main. Electric Plant	513	1,386,050			EPROD
<b>13 Total Steam Energy</b>		<b>21,783,158</b>			<b>EPROD</b>
14 Total Steam per COSS Vol I		78,647,247	(3,119,238)		
15 MP Compliance Filing Section IX COSS page 10 line 3				75,528,009	
<b>Hydro Production:</b>					
<b>Demand</b>					
16 Operations Supervision & Engineering	535	821,496			
17 Hydraulic Expenses	537	442,590			
18 Electric Expenses	538	575,380			
19 Miscellaneous	539	739,947			
20 Maintenance Supervision & Engineering	541	1,255,984			
21 Maint. Structures	542	950,000			
<b>22 Total Demand Hydro</b>		<b>4,785,397</b>			<b>DPROD</b>
<b>Energy</b>					
23 Electric Plant	544	980,640			EPROD
24 Total Hydro per COSS Vol I		5,766,037		5,766,037	
25 MP Compliance Filing Section IX COSS page 10 line 6					
<b>Other Power Generation</b>					
26 Operation & Engineering	546	-			DPROD
27 Maintenance Supervision & Engineering	551	1,111,330			
28 Total Other Power per COSS Vol II		1,111,330		1,111,330	
29 MP Compliance Filing IX COSS page 10 line 7					
<b>Other Power Supply- Demand</b>					
30 System Control & Load Dispatching	556	1,902,042			
31 Other Expenses	557	1,677,824			
32 Total		3,579,866			
33 Total Other per COSS Vol I				3,579,866	DPROD
34 MP Compliance Filing Section IX COSS page 10 line 8					
<b>Purchased Power</b>					
35 Demand	555	44,648,904			DPROD
36 Energy	555	120,580,037			EPROD
37 Total Purchased Power		165,228,941			
38 Total Purchased Power MP Compliance Filing IX p 10				165,228,941	
39 Fuel	501	166,631,695			EPROD
40 MP Compliance Filing IX Section COSS page 10 line 12				166,631,695	

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.

Minnesota Power	FERC Acct No.	Amounts	Final Adjustments	Total Company	
				Cost of Service Model	Allocator
<b>41 Transmission</b>					
42 Operation Supervision & Engineering	560	1,902,682			
43 Load Dispatching	561	-			
44 Load Dispatching -Reliability	561.1	2,611,659			
45 Load Disp.-monitoring/operate trans sys.	561.2	110,893			
46 Scheduling, system control & dispatch	561.4	1,496,009			
47 Reliability, Planning & Stds. Develop.	561.5	1,780,506			
48 Transmission Service Studies	561.6	229,702			
49 Generation Interconnection Studies	561.7	194,702			
50 Reliability, Planning & Stds. Develop.	561.8	90,310			
51 Overhead Line Expenses	563	-			
52 Transmission of Electricity by Others	565	22,375,224			
53 Rents	567	958,500			
54 Total Operation		31,750,187			
<b>Maintenance</b>					
55 Supervision & Engineering	568	-			
56 Maint Computer Hardware	569.1	383,644			
57 Maint Computer Software	569.2	329,881			
58 Maint Communications Equip.	569.3	451,155			
59 Station Equipment	570	4,925,642			
60 Overhead Lines	571	1,464,707			
61 Total Maintenance		7,555,029			
62 Total Transmission Exp.		39,305,216	(5,899,008)		
63 Total Transmisson Vol I				33,406,208	TRANPLT
64 MP Compliance Filing Section IX COSS page 10 line 13					
65 Regional Market Expenses	575.7	43,071			
66 Total Regional Mkt Vol I MP Exhibit __ (SJS)		43,071		43,071	DTRAN
67 MP Compliance Filing Section IX COSS page 10 line 14					
<b>Distribution</b>					
68 Meters	586	1,770,672			CMETERS
69 Bulk Delivery					DSUB46
70 Other Distribution					DISTPLMS
71 Supervision & Engineering	580	1,838,910			
72 Overhead Line Expenses	583	649,843			
73 Underground Line Expenses	584	-			
74 Miscellaneous	588	-			
75 Rents	589	-			
76 Total Operation		4,259,425		-	
Distribution Maintenance:					
77 Supervision & Engineering	590	1,030,446			
78 Station Equipment	592	3,303,251			
79 Overhead Lines	593	11,382,501			
80 Underground Lines	594	2,061,119			
81 Street Lighting& Signal Systems	596	150,148			
82 Meter Expenses	597	-			
83 Miscellaneous	598	-			
84 Total Maintenance		17,927,465			
85 Total Distribution		22,186,890			
86 Total Distribution Vol II				22,186,890	
87 MP Compliance Filing Section IX COSS page 10 line 19					

**Minnesota Power**

	FERC <u>Acct No.</u>	<u>Amounts</u>	Final <u>Adjustments</u>	Total Company Cost of <u>Service Model</u>	<u>Allocator</u>
<b>Customer Accounts Expenses</b>					
88 Meter Reading Expenses	902	666,985			
89 Customer Records & Collection Exp	903	6,012,441			
90 Uncollectible Accounts	904	600,000			
91 Total Customer Accting Vol I		7,279,426		7,279,426	CACCTS
92 MP Compliance Filing Section IX COSS page 10 line 20					
<b>Customer Service &amp; Info</b>					
93 Operation					
94 Supervision	907	-			
95 Customer Assistance Expenses	908	3,965,076		4,266,923	CUSTSERV
96 Misc Customer Service & Informational Exp	910	301,847			
97 Conserv Improve Prog-energy		6,886,647	(2,262,539)	4,624,108	CIPEXPE
98 Total Customer Service & Info Expenses		11,153,570		8,891,031	
99 Total Customer Serv. Vol II					
100 MP Compliance Filing IX COSS page 10 line 21 & 22					
101 Sales	913	445,060			
102 less rate making adj. for disallowed advertising			(404,578)		
103 MP Compliance Filing Section IX COSS page 10 line 23		445,060		40,482	CSALES
Administration & General					
104 Property Insurance	924	5,319,449			PLANT
105 Regulatory Expenses- see note below at 2.	928	1,325,691	(849,481)	476,210	PLANT
106 Regulatory Expenses- see note below at 1.	928	1,619,558	(1,139,210)	480,348	DTRAN
107 Advertising	930.1	177,500	(162,500)	15,000	LABLAG
108 Franchise Requirement	927	1,117,000			RSALESJ
109 EPRI Dues	921	-			RSALESJ
110 Disallowed Organizational dues	n/a	0			RSALESJ
111 General Plant	935	7,322,068			LABLAG
112 Other A&G		49,116,265	(5,207,882)	43,908,383	LABLAG
113 Total A&G		65,997,531	(7,359,073)	58,638,458	
114 Customer Deposits Interest Expense		18,000			CUSTDEP
115 Charitable Contributions		1,198,000	(682,735)		LABLAG
116 Credit for Expedited Billing		572,000			LABLAG
117 Total Operations & Maintenance Exp.					
118 MP Compliance Filing Section IX COSS page 10 line 37		569,163,880	(20,576,652)	548,587,228	
119 * Other A&G includes the following FERC accts -920,921,923,925,926,930.2.					



**Minnesota Power  
Transformer Emergency Replacement Guide  
Large Power Transformers All load Serving  
Windings Greater than 100kV**

PUBLIC DOCUMENT  
TRADE SECRET DATA  
HAS BEEN EXCISED

### **Background**

Minnesota Power has several autotransformers which meet the criteria in which all load serving windings are greater than 100kV. Minnesota Powers' backbone transmission system is 230kV with underlying 115kV which serve distribution substations. All of the transformation between the 230kV and 115kV system is accomplished with autotransformers. Additionally Minnesota Power is interconnected, at 115kV, 138 kV, 345kV, as well as 500kV. All of these higher voltage (greater than 100kV) transformations, except for the 115kV, are accomplished by autotransformers. (An autotransformer is simply a special connection/winding of a transformer which is useful to reduce the complexity and therefore cost of the transformer) Minnesota Power does have autotransformers in this class which connect separate portions internal to the Minnesota Power grid and form no interconnection externally.

### **Backup Strategies**

**[TRADE SECRET DATA HAS BEEN EXCISED]**

**Transmission Level Transformers Inventory (greater than 100 kV on the low side)**

**[TRADE SECRET DATA HAS BEEN EXCISED]**

**HVDC System Transmission Level Transformers Inventory (greater than 100 kV on the low side)**

**[TRADE SECRET DATA HAS BEEN EXCISED]**

**Minnesota Power's Report Addressing the Purchase  
Power Agreement with Manitoba Hydro**

**(Docket No. E015/M-10-961; order dated 3-11-11)**

PUBLIC DOCUMENT  
TRADE SECRET DATA  
HAS BEEN EXCISED

The Commission's March 11, 2011 Order in Docket No. E-015/M-10-961 required MP to provide in its annual automatic adjustment report the following regarding the Purchase Power Agreement with Manitoba Hydro for the period of July 2014 through June 2015:

**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 current bilateral energy market is thinly traded. Minnesota Power has undertaken efforts to procure energy from sources in the bilateral market, though to-date most energy purchased for MP load is purchased from the MISO market.

**d) the prices of alternative energy**

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

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

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

PUBLIC DOCUMENT  
TRADE SECRET DATA  
HAS BEEN EXCISED

Appendix A

2015 MHEB Product B & C  
Minnesota Power - Short-term Non-firm Energy Sale Agreement

	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
<b>Offered (MWh)</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product B	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product C	[TRADE SECRET DATA HAS BEEN EXCISED]											
<b>Total</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											
<b>Accepted (MWh)</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product B	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product C	[TRADE SECRET DATA HAS BEEN EXCISED]											
<b>Total</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											
<b>Curtailment (MWh)</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product B	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product C	[TRADE SECRET DATA HAS BEEN EXCISED]											
<b>Total</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											
<b>Accepted less Curtailment (MWh)</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product B	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product C	[TRADE SECRET DATA HAS BEEN EXCISED]											
<b>Total</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											
<b>Number of Instances Offered</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product B	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product C	[TRADE SECRET DATA HAS BEEN EXCISED]											
<b>Total</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											
<b>Number of Instances Accepted</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product B	[TRADE SECRET DATA HAS BEEN EXCISED]											
Product C	[TRADE SECRET DATA HAS BEEN EXCISED]											
<b>Total</b>	[TRADE SECRET DATA HAS BEEN EXCISED]											

Minnesota Power's Offsetting Revenues and/or Compensation Received by Investor-Owned Utilities (IOUs)  
Docket No. E-999/AA-10-884 dated April 6, 2012

PUBLIC DOCUMENT  
TRADE SECRET DATA  
HAS BEEN EXCISED

For the Reporting Period of July 1, 2014 through June 30, 2015

[TRADE SECRET DATA HAS BEEN EXCISED]		
		(1)
Source	MWh	Offsetting Revenues
[REDACTED]		
[TRADE SECRET DATA HAS BEEN EXCISED]		

Filed in monthly fuel filings Docket No.

Fuel Cost Month	Docket No.
July 2014	14-724
August 2014	14-833
September 2014	14-927
October 2014	14-999
November 2014	14-1071
December 2014	15-107
January 2015	15-181
February 2015	15-297
March 2015	15-403
April 2015	15-507
May 2015	15-636
June 2015	15-710

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

**Annual Identification of Forced Outages, Lessons Learned and  
Mechanism for Information Sharing  
Docket E-999/AA-10-884 (Dated April 6, 2012)**



### ***Annual Identification of Forced Outages and Lessons Learned***

See MP AAA Table-1 on page 6 for details related to forced outages.

Our maintenance practices and reliability programs are constantly being evaluated to ensure continuous improvement of our employees' skills and 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.

We are also in the process of instituting 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.

See Attachment 1 for information related to Minnesota Power's Coal and Transportation Procurement Strategy.

### **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.

Table 1

Unit	Outage Category	DOC Primary Reason for the Outage	GADS Start Date/Time of Actual Outage	GADS End Date/Time of Actual Outage	DOC Equipment or Condition that Resulted in the Outage	DOC Description of Equipment Failure (including identified root cause)	DOC Steps Taken to Alleviate Reoccurrence	DOC Change in Energy
BEC 3	Unplanned	Boiler RH Tube Leak - 6th Floor, Down 1.	6/27/2015 13:00	6/29/2015 17:39	Reheat tube failure caused tube to break apart and corkscrew in boiler, this caused 5 additional tube leaks in adjacent vicinity.	Dissimilar metal weld failure.	Replaced damaged tube section. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 101,793
THEC 2	Unplanned	Boiler RH Tube Leak.	6/26/2015 0:41	6/29/2015 4:57	Reheat tube leak.	Sootblower erosion caused tube failure.	Repaired tube leak. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed. Repaired 22 heater tube leaks and 22 heater vent line leaks.	\$ 7,123
BEC 4	Unplanned	Boiler SH Tube Leak.	6/17/2015 21:23	6/20/2015 21:50	South division panel tube leak.	Samples sent for analysis to OEM and outside metallurgist. The root cause was indeterminate.	Sectioned out and replaced failed tube area. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed. We have identified tubes to be replaced in the planned outage in the fall of 2015.	\$ 132,406
BEC 2	Unplanned	2U Main Transformer - Center Phase Unlatched.	6/11/2015 0:53	6/12/2015 23:38	Phase imbalance caused a bus differential which tripped the relay. The tripped relay took the unit offline.	Improperly seated switch on center phase of 2U1, switch was not fully latched.	Tested transformer & reseated switch.	\$ 11,162
BEC 4	Unplanned	Boiler Tube Leak.	5/16/15 0:32	5/18/15 7:19	Nose tube leak, 2nd tube from east rear wall hanger	Tube erosion resulted in tube leak	Tube repaired. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed. Additional leak was found and repaired as well. We have identified tubes to be replaced in the planned outage in the fall 2015.	\$ 8,011
BEC 4	Unplanned	Boiler Waterwall Leak.	4/21/15 13:39	4/23/15 18:27	Waterwall tube leak, #1 corner, 4th floor.	Sootblower erosion caused tube failure.	Investigating full arc and partial arc soot blower for this application. UT thickness testing performed on adjoining tubes, and boiler air test performed once tube was sectioned and weld repaired.	\$ 183,412
BEC 2	Unplanned	Economizer inlet tube leak - external.	4/19/15 0:01	4/20/15 5:11	External tube leak occurred on start-up from spring outage. Drum level non-sustainable.	Economizer tube disconnected from economizer inlet header.	Weld repairs and inspected header for other damager. Non destructive testing done on all the tubes going into the economizer header.	\$ 712
BEC 3	Unplanned	Main boiler feed pump inboard bearing repair.	4/11/15 22:01	4/30/15 5:23	Main boiler feed pump element seized on turning gear, unable to start pump during unit startup.	The check valve failed to seal resulting in temperature expansion on the main boiler feed pump, which seized the element.	Disassemble check valve and repaired it. The block valve was upgraded to provide secondary protection.	\$ -
BEC 3	Unplanned	Main boiler feed pump inboard bearing repair.	4/11/15 0:01	4/11/15 20:59	Main boiler feed pump high vibration on inboard bearing.	The unit was taken offline to inspect the bearing.	Inboard bearing was shimmed .002 in to alleviate inboard bearing vibration.	\$ 402,646
THEC 2	Unplanned	Boiler reheat tube leak.	4/1/15 8:52	4/2/15 20:52	Water Wall tube leak.	Ash erosion.	Repaired knee wall wear, inspected tubes added refractory between tubes and knee wall. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 3,680
THEC 1	Unplanned	Boiler Waterwall Leak.	3/6/15 22:29	3/9/15 5:15	Water wall tube leak north wall 2 1/2 level	Two holes in water wall tube on north side 2 1/2 level. Holes are at the top and bottom of a pad weld likely caused by porosity in the starts and stops of the weld.	Previous owner was responsible for the original repairs. Minnesota Power has a qualified weld repair program in place. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ (2,751)
BEC 3	Unplanned	Boiler Waterwall Leak - 4th Floor North Side.	2/28/15 1:13	3/1/15 9:46	2 waterwall tube leaks on 4th floor. Both leaks at membrane connection.	Sootblower erosion caused tube failure.	Root Pass welding of the two leaks and pad welded repairs of the membrane and small adjacent washout areas. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed. Lead box was removed in panel replacement during 2015 Spring Outage.	\$ 90,242
LEC 2	Unplanned	Boiler Tube Leak - Superheat.	2/6/15 21:46	2/8/15 13:18	Superheat tube leak.	Fatigue Stress cracking - overheating.	Made proper weld repairs. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ (968)
LEC 1	Unplanned	Steam Temp Controller Issue.	2/1/15 21:14	2/3/15 5:04	Boiler steam temperature control.	Spray valve no functioning properly.	Replaced valve controller.	\$ 10,292

Unit	Outage Category	DOC Primary Reason for the Outage	GADS Start Date/Time of Actual Outage	GADS End Date/Time of Actual Outage	DOC Equipment or Condition that Resulted in the Outage	DOC Description of Equipment Failure (including identified root cause)	DOC Steps Taken to Alleviate Reoccurrence	DOC Change in Energy
BEC 4	Unplanned	Boiler Waterwall Leak.	1/30/15 10:05	2/1/15 15:39	Waterwall tube leak in tube 29.	A secondary leak in the seal trough that resulted in overheating of tube 29. Overheating of tube 29 resulted in a failure on the 10th floor.	Repaired both leaks. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed. Due to the difficult access of the area, the full area will be inspected in the 2015 fall planned outage.	\$ 271,552
THEC 3	Unplanned	Boiler Waterwall Leak.	1/23/15 21:31	1/26/15 4:15	Water wall tube leak 4 level SW corner	Sootblower erosion caused tube failure.	Repaired leak. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ (8,163)
BEC 3	Unplanned	Boiler Waterwall Leak.	1/16/15 2:16	1/17/15 13:25	External waterwall tube leak, found additional leak(non-critical) spraying in bottom ash hopper.	Old IR Sootblower penetration lead box caused improper heat transfer on waterwall tube. Bottom Ash Hopper leak was caused by seal plate rubbing damage.	Root Pass welding of external leak and pad welding of damaged membrane. Lead box was removed in panel replacement during 2015 Spring Outage. Bottom Ash Hopper leak was weld repaired and seal plate was trimmed back. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 89,956
LEC 1	Unplanned	Economizer tube leak.	1/8/15 8:35	1/11/15 8:42	Economizer tube leak.	Sootblower erosion caused tube failure.	Made proper weld repairs. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 7,707
BEC 1	Unplanned	EHC Low Pressure Alarm.	12/27/14 15:22	12/28/14 20:17	Turbine tripped as designed due to low EHC pressure.	Relief valve on pump was stuck open due to debris.	Valve was cleaned and checked for proper operation. Installation of predictive maintenance flow indications.	\$ 15,511
BEC 3	Unplanned	Boiler RH tube leak.	12/22/14 23:59	12/24/14 11:00	Reheat tube leak.	Thermal fatigue during previous shut down and start-up	Damaged tube section was repaired. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ -
LEC 1	Unplanned	Low RO System Water Recovery Rate.	12/22/14 20:28	12/24/14 4:16	Economizer tube leak caused the RO system to have a low water recovery rate.	Sootblower erosion caused tube failure.	Made proper weld repairs. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 7,225
BEC 3	Unplanned	Boiler RH tube leak.	12/20/14 1:12	12/22/14 6:17	Reheat tube leak. Additionally, startup was delayed briefly due to an issue with the cold fill check valve.	Dissimilar metal weld failure.	Damaged tube section was replaced. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ -
LEC 2	Unplanned	Boiler Waterwall Leak - 7th Floor.	12/19/14 23:59	12/21/14 1:47	Waterwall tube leak on 7th floor.	Fatigue Stress cracking - overheating.	Made proper weld repairs. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 22,109
BEC 3	Unplanned	Waterwall Tube Leak 5-1/2 floor NW Corner.	12/13/14 0:54	12/14/14 8:10	Hole in waterwall tube off the slope of the nose on north wall.	Sootblower erosion caused tube failure.	Pad weld repair of leak. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 128,791
BEC 2	Unplanned	Boiler Waterwall Leak.	12/5/14 21:57	12/7/14 8:29	Waterwall tube leak on west wall near inspection port in SW Corner.	Sootblower erosion caused tube failure.	Window weld repair of leak. Window replaced and welded. Area surrounding area inspected and repaired as required. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 6,545
LEC 1	Unplanned	Boiler SH Tube Leak - Primary Pendant.	11/25/14 23:38	11/27/14 15:11	Superheat tube leak.	Fatigue Stress cracking - overheating.	Made proper weld repairs. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 18,011
BEC 3	Unplanned	Boiler tube leak.	11/22/14 0:00	11/23/14 5:22	3 Waterwall tube leaks found on north side of waterwall tubes.	Sootblower erosion caused tube failure.	Weld repair of leaks and pad welding of washout on adjacent tubes. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ -
THEC 2	Unplanned	Generator Relay Protection.	11/19/14 18:44	11/21/14 10:06	Generator relay protection	Generation ground relay provided false trip signal.	Repaired the bad relay. A routine maintenance plan in place for testing relays.	\$ 19,984
LEC 2	Unplanned	Boiler tube leak.	11/17/14 14:28	11/18/14 17:44	Boiler tube leak.	Fatigue Stress cracking - overheating.	Made proper weld repairs. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 11,754

Unit	Outage Category	DOC Primary Reason for the Outage	GADS Start Date/Time of Actual Outage	GADS End Date/Time of Actual Outage	DOC Equipment or Condition that Resulted in the Outage	DOC Description of Equipment Failure (including identified root cause)	DOC Steps Taken to Alleviate Reoccurrence	DOC Change in Energy
BEC 4	Unplanned	Boiler superheat tube leak.	11/6/14 5:40	11/8/14 12:14	Dissimilar metal weld failure on tube 11 of panel 12 from the west.	Dissimilar metal weld failure.	Repaired tube. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed. Due to the numerous dissimilar metal welds in the boiler, a long term inspection plan is in place that rotates inspections based on planned outage schedules. In addition, in the fall of 2015, 100% of this area will be inspected due to the outage duration.	\$ -
BEC 4	Unplanned	SH Division Panel Tube Leak.	11/3/14 10:43	11/5/14 4:36	Division panel two tube failure followed by 14th floor corner tube external wall tube leak.	Buckstay clip wear and thermal/contractor wear on tube.	Repaired tube. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed. Additional leak was found and repaired as well. We have identified tubes to be replaced in the planned outage in the fall of 2015.	\$ 548,507
BEC 3	Unplanned	Waterwall Tube leak 4th Floor.	11/1/14 9:30	11/2/14 8:43	Waterwall tube leak on 2nd corner tube from the west.	Sootblower erosion caused tube failure.	Weld repair of leak and pad welding of washout on adjacent tube. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 179,823
BEC 3	Unplanned	C' Phase on Main Breaker	10/28/14 11:35	10/29/14 1:27	Unit was taken offline to prevent damage to Main Breaker.	During routine round inspection, "C" Phase switch was found to have and incomplete connection. Hot spot temperature increased exponentially while monitoring with IR Camera	"C" Phase switch was cleaned and exercised to ensure complete connection. All the other switches and phases were inspected.	\$ 107,619
BEC 4	Unplanned	Waterwall Tube Leak - Nose of Boiler - Center	9/26/14 22:21	9/28/14 0:00	Nose tube failure	Tube failure due to fire side erosion.	Tube repaired. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed. We have identified tubes to be replaced in the planned outage in the fall 2015.	\$ 201,272
BEC 4	Unplanned	Boiler Tube Leaks.	8/26/14 23:16	8/29/14 9:22	Nose tube failure and division panel SH tube (2nd panel from east, vertical twin crack)	Tube failure due to fire side erosion.	Tube repaired. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed. Additional leak was found and repaired as well. We have identified tubes to be replaced in the planned outage in the fall 2015.	\$ 395,067
BEC 3	Unplanned	Water Wall Tube Leak 2-1/2 Floor #4 Corner.	8/2/14 0:01	8/3/14 8:53	The leak was below view port on the north wall just above the slope of coutant bottom on the 2-1/2 level.	Sootblower erosion caused tube failure.	Weld repair and weld overlay of pinhole leak and washout leak of adjacent tube. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 125,395
THEC 3	Unplanned	Boiler superheat tube leak.	7/25/14 9:37	7/30/14 10:45	Low temp super heat tube leak.	Sootblower erosion caused tube failure.	Added ~30 shields to super heat tubes to alleviate soot blower wash out. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed. Waterwall tubes were pad welded.	\$ 48,761
BEC 3	Unplanned	Boiler tube leak.	6/30/14 0:43	7/1/14 12:52	Boiler water wall tube leak on the #4 corner.	Water wall tube was eroded by flyash.	Tube repair completed. During this outage opportunity, additional tubes in the surrounding area where inspected and repaired as needed.	\$ 30,061

Minnesota Power's Comparison and Reconciliation of the MISO Accredited  
Value of the Company's Generators Using MISO Accredited UCAP Values  
and Integrated Resource Plan Capacity Ratings.

Docket No. E-999/AA-09-961

and

Docket No. E-999/AA-10-884

Dated August 31, 2015



Order Point 28 of the Commission Order states:

Interstate, Minnesota Power, Otter Tail and Xcel shall continue to provide a comparison and reconciliation of the MISO accredited value of their generators using MISO accredited UCAP values and integrated resource plan capacity ratings in future AAA filings. This comparison and reconciliation should be prepared in sufficient detail to allow the Department to understand: (a) the impacts of generation resources that are not network deliverable (i.e., not interconnected), and (b) the possible constraints of utilities' systems and the impact of those constraints.

### **MISO Accredited UCAP Values and 2013 Resource Plan Capacity Ratings**

Minnesota Power has attached to this filing a comparison of the MISO accredited UCAP values for its generating resources from the MISO Planning Year 15/16 to the capacity ratings used in its 2013 Resource Plan (See attached file named: Attachment 17-Table A which contains Trade Secret Data). The capacity values used in Minnesota Power's 2013 Resource Plan were based on MISO Planning Year 12-13 capacity values; therefore, there are a couple differences between the UCAP values and is noted below.

#### Wind Generation

There is an approximate 28 MW difference in the wind UCAP capacity values between MISO Planning Year 15/16 and the 2013 Resource Plan. The higher wind UCAP capacity value used in the MISO Planning Year 15/16 is due to Minnesota Power's investment in additional wind capacity in North Dakota. This is the Bison 4 facility with a nameplate capacity of 205 MW.

#### Square Butte

There is an approximate 132 MW difference in the UCAP capacity values between MISO Planning Year 15/16 and the 2013 Resource Plan for the Square Butte generator. The higher Square Butte UCAP capacity value in the 2013 Resource Plan represents Minnesota Power's share of Square Butte Capacity in 2012, where the Planning Year 15/16 UCAP capacity value represents Minnesota Power's share of Square Butte capacity in 2015, which decreased by approximately 132 UCAP MW from 2012 to 2015. The decrease in Square Butte capacity share was part of Minnesota Power's DC Line Purchase and Minnesota Power's broader North Dakota wind initiative that was approved as part of the 2011 and 2013 Resource Plans. This decrease in Minnesota Power's share of capacity from Square Butte was included in the 2013 Resource Plan, although the decrease is not reflected in Attachment 17 Table A because the 2013 Resource Plan

capacity is a snapshot of MP's capacity in the Summer of Planning Year 12-13 and the decrease takes place 2014.

#### Thomson Hydro

There is an approximate 56 MW difference in the pondage hydro UCAP capacity values between MISO Planning Year 15/16 and the 2013 Resource Plan. The pondage hydro generation represents the Thomson hydro capacity. Due to the catastrophic outage from flooding that occurred in June 2012, only a portion of the Thomson hydro facility that has returned to service since the flood was able to be accredited for the Planning Year 15/16. When the entire Thomson hydro returns to service the UCAP values will be comparable to the 2013 Resource Plan.

Taconite Harbor 3: The capacity of this unit has not been accredited since the unit was suspended per the MISO Attachment Y submittal in 2014

#### Bilateral Purchase Transactions

There are two bilateral power purchase agreements that start in Planning Year 15/16. Minnesota Power purchased 50 MW of UCAP capacity from Xcel for the Planning Year 15/16. This purchase was made to replace the capacity loss at Thomson hydro due to station being offline from the 2012 flooding. Minnesota Power also purchased 49 MW of UCAP capacity from Manitoba Hydro for the duration of June 1, 2015 through May 31, 2020. The purchased capacity from Manitoba Hydro was entered into after the filing of Minnesota Power's 2013 Resource Plan and was entered into as part of the Company's Bilateral Bridge Strategy in its Near Term Action Plan.

There was one bilateral power purchase agreement that started prior to Planning Year 15/16. Minnesota Power purchased 50 MW of UCAP capacity from Minnkota Power Cooperative, Inc. for the duration of January 1, 2014 through May 31, 2020. The purchased capacity from Minnkota was included in the resource plan as a capacity resource as part of the Company's Bilateral Bridge Strategy in its Near Term Action Plan.

#### **Minnesota Power Generation with Non-Network Interconnection Agreements with MISO**

The Midcontinent ISO Generation Deliverability Test Results can be found on the MISO website at the following link:

<https://www.misoenergy.org/Library/Agreements/Pages/InterconnectionAgreements.aspx>

We have attached to this filing the current Midcontinent ISO Generation Deliverability Results file that has been formatted to highlight the Minnesota Power generating resources and their interconnection service designations. (See attached file named: Attachment 17-Table B)

It should be noted that under MISO's annual resource adequacy program that started June 1, 2013 there is no longer a "local" designation of capacity resources. All capacity resources are considered equal as long as all the requirements are met per the MISO Module E tariff. There remain two types of interconnection transmission service for generating sources: Network Resource Interconnection Service (NRIS) and Energy Resource Interconnection Service (ERIS). Under the previous MISO monthly resource adequacy program a generator with ERIS status was designated "local" capacity, where under the new MISO resource adequacy program a generator with ERIS status and transmission rights to a load in MISO is designated as a capacity resource similar to a generator with NRIS within its Local Resource Zone.

With the new resource adequacy program no longer designating capacity with ERIS status as "Local", Minnesota Power will address the following questions by discussing capacity resources on its system with ERIS interconnection service.

**Identification of resources assigned, in full or in part, ERIS status based on Minnesota Power's Deliverability Results from MISO and why these resources are designated as such.**

Minnesota Power has two capacity resources that currently have ERIS interconnection service with MISO; the Taconite Ridge wind farm and the Taconite Harbor thermal generating facility. Details for each are provided below:

Taconite Ridge: An ERIS generation interconnection was utilized during the project implementation for this wind farm. To make this resource eligible for capacity credit Minnesota Power worked with the MISO transmission request process to gain 25MW of transmission rights from the generator to Minnesota Power's load. With this transmission service the generation from the Taconite Ridge facility would be eligible for capacity credit to serve Minnesota Power's customers.

To acquire enough transmission service to allow the Taconite Ridge wind farm to be eligible to serve any MISO customer, or become network deliverable, there would be bulk transmission upgrades required. Minnesota Power did not see the economic benefit of having customers pay for additional transmission upgrades to allow capacity from the wind farm to be eligible to be transferred to other Midwest ISO footprint customers.

Taconite Harbor: This resource has a small portion (approximately 25MW) of its total

transmission service (225MW) that is ERIS due to a transmission limitation on Minnesota Power's northeastern system. Since Taconite Harbor Unit 3 was suspended and the combined accredited capacity of the first two units does not exceed the 200MW of NRIS attributed to the station, the ERIS was allocated to Unit 3 and is not planned to be used

**Impact to Minnesota Power's Integrated Resource Plan (as a result of these resources having ERIS interconnection service)**

As Minnesota Power's 2013 Resource Plan identifies how Minnesota Power will serve its local customers with available generation and power purchases, the definition of ERIS vs. NRIS does not impact its long-term plan as all of the capacity that has ERIS service is able to count for Minnesota Power's capacity requirement. These MISO Resource Adequacy capacity attributes are included as part of the larger capacity position for each resource as it is being added to Minnesota Power's long-term expansion plan.

**Minnesota Power's plan to address the ERIS resources and make them NRIS**

See paragraph on Impact to Minnesota Power's Integrated Resource Plan above. Minnesota Power continues to ensure its customers receive the maximum economic capacity available from its resources.

**PY "2015-2016" Compared to 2013 Resource Plan Capacity Values**

PUBLIC DOCUMENT  
TRADE SECRET DATA HAS BEEN EXCISED

TABLE A

<u>MN Power Thermal Generation</u>	Planning Year 15-16 UCAP Value	2013 Resource Plan Capacity ICAP Values	2013 Resource Plan Capacity UCAP Values Per DOC IR 4
	<b>[TRADE SECRET DATA HAS BEEN EXCISED]</b>		
Boswell 1			
Boswell 2			
Boswell 3			
Boswell 4			
Hibbard 3&4			
Laskin 1			
Laskin 2			
Young 2/Square Butte			
Taconite Harbor 1			
Taconite Harbor 2			
Taconite Harbor 3			
SAPPI TG 5			
<b>Total</b>			

<u>MN Power Hydro Generation</u>	Planning Year 15-16 UCAP Value	2013 Resource Plan Capacity ICAP Values	2013 Resource Plan Capacity UCAP Values Per DOC IR 4
	<b>[TRADE SECRET DATA HAS BEEN EXCISED]</b>		
Pondage			
Run of River			
Rapids Energy Center			
<b>Total</b>			

<u>Bilateral Purchase Transactions</u>	Planning Year 15-16 UCAP Value	2013 Resource Plan Capacity ICAP Values	2013 Resource Plan Capacity UCAP Values Per DOC IR 4
	<b>[TRADE SECRET DATA HAS BEEN EXCISED]</b>		
MHEB 50 MW			
Minnkota			
Xcel			
<b>Total</b>			

<u>Behind The Meter Generation (BTMG)</u>	Planning Year 15-16 UCAP Value	2013 Resource Plan Capacity ICAP Values	2013 Resource Plan Capacity UCAP Values Per DOC IR 4
	<b>[TRADE SECRET DATA HAS BEEN EXCISED]</b>		
Customer Owned			
Minnesota Power Owned Non Hydro			
<b>Total</b>			
(A) Total BTMG			
(B) BTMG Coincident with Peak Demand			
(C) Duel Fuel			
Remaining MP and Customer Owned BTMG (A-B-C)			

Reserve Margin Requirement on BTMG Coincident with Peak (The UCAP Reserve Margin 7.1% & ICAP Reserve Margin 14.3% - Planning Year 15-16)&(The UCAP Reserve Margin 3.79% & ICAP Reserve Margin 11.32% - 2013 Resource Plan)

**BTMG Modeled in Strategist (non-coincident Customer Net Generation)**

PUBLIC DOCUMENT  
TRADE SECRET DATA HAS BEEN EXCISED

TABLE A

<u>Wind Generation</u>	Planning Year 15-16 UCAP Value	2013 Resource Plan Capacity Value base on Long Term Expectations	2013 Resource Plan Capacity UCAP Values Per DOC IR 4
	[TRADE SECRET DATA HAS BEEN EXCISED]		
Oliver 1 & 2			
Bison 1-4			
Taconite Ridge			
Wing River			
Total			

	Planning Year 15-16 UCAP Value	2013 Resource Plan Capacity ICAP Values	2013 Resource Plan Capacity UCAP Values Per DOC IR 4
	[TRADE SECRET DATA HAS BEEN EXCISED]		
<b>TOTAL OF ALL CAPACITY</b>			

TABLE B

Midwest ISO Interconnection Service

CPNode	Operator Name	Total Interconnection Service	NRIS	NRIS (Local)	ERIS
MP.BISON1		496.6	496.6	0	
MP.BLNCHR123	BLANCHARD 1	18	18	0	
MP.BOS111	BOSWELL 1	75	75	0	
MP.BOS112	BOSWELL 2	75	75	0	
MP.BOS233	BOSWELL 3	364.5	364.5	0	
MP.FONDLA1	FOND-DU-LAC 1	12	12	0	
MP.HIBBAR3	HIBBARD 3	34	34	0	
MP.HIBBAR4	HIBBARD 4	35	35	0	
MP.LASKIN1	LASKIN 1	60.5	60.5	0	
MP.LASKIN2	LASKIN 2	60.5	60.5	0	
MP.MP_BOS4	BOSWELL 4 JOU MP (MP Share)	476	476	0	
MP.OLIVER12	MP OLIVERCO OLIVER_1 - 2_UNIT	101		0	101
MP.POTLTUN_5	POTLATCH 5	41.5	41.5	0	
MP.TACHB1	TACONITE HARBOR 1	76.0	76	0	
MP.TACHB2	TACONITE HARBOR 2	74.0	74	0	
MP.TACHB3	TACONITE HARBOR 3	75.0	50	0	25
MP.TACRIDGE1	MP MINNTAC MINNTA_1_UNIT	25	0	0	25
MP.THOMSON		77.3	39.3	0	
OTP.Y2ACGEN.MP	YOUNG 2 JOU MP	134.9	134.9	0	

## Congestion Costs Analysis

Minnesota Power is providing, in a separate Access database, hourly Day-Ahead Locational Marginal Price data, including energy, line losses and congestion charges for each of its generation nodes, load node and Minnesota Hub for the time period of July 2014 through June 2015. The Access database also includes all hours in which congestion costs were incurred between our generator and load nodes (paths). Please note the access database is considered Trade Secret Data and will be provided separately on a cd as it is not in a format that can be filed.

Below is the reference guide to the Access database

The table “MP DA LMP” includes the Day Ahead LMPs for each of Minnesota Power’s generation nodes, our load node and Minnesota Hub node for each hour from July 1, 2014 through June 30, 2015. The table columns are defined as follows:

- Localday – calendar day of the year.
- HE – hour ending
- Location – MISO node name
- Market – Day Ahead market
- Lmp – Locational Marginal Price
- Mcc – Marginal Congestion Component of the LMP
- Mlc – Marginal Loss Component of the LMP
- Energy – Energy Component of the LMP

The table “DA Congestion” includes the data related to Minnesota Power’s calculation of Day Ahead Congestion costs for the paths between our generation nodes and our load node for July 1, 2014 through June 30, 2015. The table columns are defined as follows:

- Localday – calendar day of the year.
- HE – hour ending
- Mmi Nodename – MISO node name
- DA RE Mwh – Day Ahead cleared MWh at the generation node that are used in the calculation of the Day Ahead Congestion for the path between the generator and load
- Da Mcc Gen – Day Ahead Marginal Congestion Component of the Day Ahead LMP at the generator
- Da Mcc Load – Day Ahead Marginal Congestion Component of the Day Ahead LMP at Minnesota Power’s load node for the corresponding day and hour ending
- DA Congestion – the calculated congestion between the generator and load for the given day and hour ending.

The table “HVDC Utilization” included data related to the hedged congestion due to the transfer of energy across the HVDC line for July 1, 2014 through June 30, 2015. The table columns are defined as follows:



- Localday – calendar day of the year.
- HE – hour ending
- Mmi Nodename – MISO node name
- DA RE Mwh – Day Ahead cleared MWh on the DC line that are used in the calculation of the Day Ahead Congestion hedging on the DC line
- Da Mcc Gen – Day Ahead Marginal Congestion Component of the Day Ahead LMP at the west end of the DC line – MISO node name MP.HVDCW
- Da Mcc Load – Day Ahead Marginal Congestion Component of the Day Ahead LMP at the east end of the DC line – MISO node name MP.HVDCE
- DA Congestion – the calculated congestion between the west end of the DC line and east end of the DC line for the given day and hour ending.

The table below shows the sum of the qualifying congestion costs by path along with the FTR revenues for the top 10 paths.

As shown by the information provided, Minnesota Power has no FTRs associated with the MP.BISON1 to MP.MP path. This is because at the time of requesting ARR's for 2013 Minnesota Power did not have firm transmission from MP.BISON1 to MP.MP. It should also be noted that the FTRs associated with the MP.HVDCE to MP.MP path, are allocated to MP.Y2ACGEN.MP, MP.BISON1 and MP.OLIVER12. This represents the path between the east end of the DC line and Minnesota Power's load zone. MP.HVDCE is the node at the east end of the DC line where Minnesota Power sells power to the MISO market. HVDC Utilization is allocated to MP.Y2ACGEN.MP, MP.BISON1 and MP.OLIVER12 on a pro-rata basis based on the total DA Congestion on these paths.

Minnesota Power is always looking at ways to provide cost-effective delivery. Minnesota Power's ARR strategy has been to schedule FTRs up to the amount that MISO allows between generation and the load zone in order to sell electricity into the MISO market at the same price as it is being purchased.

<b>Day Ahead Congestion by Path July 2014 - June 2015</b>					
	Path	Total DA Congestion	HVDC Utilization	FTR Revenues	Net Congestion
	Node to MP.MP				
1	MP.BISON1	2,659,249.13	(3,621,271.47)		(962,022.34)
2	OTP.Y2ACGEN.MP	1,876,136.31	(2,554,856.12)	307,361.72	(371,358.09)
3	MP.OLIVER12	929,230.52	(1,265,393.28)	(49,499.26)	(385,662.02)
4	MP.BOS233	722,410.90		(458,944.44)	263,466.46
5	MP.MP_BOS4	545,006.10		(1,012,846.78)	(467,840.68)
6	MP.BOS112				

		134,523.18	(129,235.94)	5,287.24
7	MP.BOS111	126,682.78	(110,612.58)	16,070.20
8	MP.BLNCHR123	51,819.03	(17,416.90)	34,402.13
9	MP.TACHB3	51,473.24	(34,604.42)	16,868.82
10	MP.TACHB1	40,331.04	(18,555.96)	21,775.08
	subtotal of top 10	7,136,862.24	(7,441,520.87)	(1,524,354.56)
				(1,829,013.19)
	MP.TACHB2	40,009.41		40,009.41
	MP.SLVRBAY2	13,398.73		13,398.73
	MP.LASKIN2	10,152.59		10,152.59
	MP.LASKIN1	7,633.88		7,633.88
	MP.SLVRBAY1	6,727.28		6,727.28
	MP.TACRIDGE1	6,091.94		6,091.94
	MP.HIBBAR3	-		-
	MINN.HUB	-		-
	MP.HIBBAR4	(226.15)		(226.15)
	MP.FONDLA1	(8,017.32)		(8,017.32)
	MP.THOMSON	(15,056.09)		(15,056.09)
	MP.POTLTUN_5	(24,232.01)		(24,232.01)
	Grand Total	7,173,344.51	(7,441,520.87)	(1,524,354.56)
				(1,792,530.92)

## Plant Outage Contingency Plans

Docket No. E-999/AA-08-995 dated March 15, 2010

***Plant Outage Contingency Plans to address the following for the period of July 2014-June 2015:***

1. Identification for the period of July 2014-June 2015 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***

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.

***Lessons Learned and Contingency plans utilized***

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.

**Oliver I and II Wind Curtailment Reporting**

**Docket No. E015/M-05-975; Dated December 20, 2005**

Minnesota Power  
Wind Energy Purchase Agreement with FPL  
Reporting Period: July 1, 2014 - June 30, 2015

Oliver County I				
FPL Wind Energy in FAC (MWh)	Curtailements of Wind Energy MWh	Curtailment Payments by MP	Reason Codes	Explanation
<b>[TRADE SECRET DATA HAS BEEN EXCISED]</b>				

Jul-14		None	None	None	None
Aug-14		2	\$120.12	2	Oliver County is a Dispatchable Intermittent Unit (DIR) within MISO. The offer price is set so that if the Locational Marginal Price (LMP) drops below the amount of a compensated curtailment payment amount on the PPA, then the unit will be curtailed. When this happens, the LMP is negative and Minnesota Power would be paying MISO to generate at this unit, or being paid not to generate. With the LMP this negative, the cost paid under the PPA is less than what Minnesota Power would have paid MISO if we would have generated.
Sep-14		None	None	None	None
Oct-14		None	None	None	None
Nov-14		2	\$153.18	2	Oliver County is a Dispatchable Intermittent Unit (DIR) within MISO. The offer price is set so that if the Locational Marginal Price (LMP) drops below the amount of a compensated curtailment payment amount on the PPA, then the unit will be curtailed. When this happens, the LMP is negative and Minnesota Power would be paying MISO to generate at this unit, or being paid not to generate. With the LMP this negative, the cost paid under the PPA is less than what Minnesota Power would have paid MISO if we would have generated.
Dec-14		None	None	None	None
Jan-15		None	None	None	None
Feb-15		None	None	None	None
Mar-15		<1	\$18.35	2	Oliver County is a Dispatchable Intermittent Unit (DIR) within MISO. The offer price is set so that if the Locational Marginal Price (LMP) drops below the amount of a compensated curtailment payment amount on the PPA, then the unit will be curtailed. When this happens, the LMP is negative and Minnesota Power would be paying MISO to generate at this unit, or being paid not to generate. With the LMP this negative, the cost paid under the PPA is less than what Minnesota Power would have paid MISO if we would have generated.
Apr-15		None	None	None	None
May-15		None	None	None	None
Jun-15		None	None	None	None
<b>Total</b>		<b>4</b>	<b>\$ 291.65</b>		

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.

Minnesota Power  
Wind Energy Purchase Agreement with FPL  
Reporting Period: July 1, 2014 - June 30, 2015

Oliver County II				
FPL Wind Energy in FAC (MWh)	Curtailments of Wind Energy MWh	Curtailment Payments by MP	Reason Codes	Explanation
[TRADE SECRET DATA HAS BEEN EXCISED]				

Jul-14		None	None	None	None
Aug-14		1	\$86.62	2	Oliver County is a Dispatchable Intermittent Unit (DIR) within MISO. The offer price is set so that if the Locational Marginal Price (LMP) drops below the amount of a compensated curtailment payment amount on the PPA, then the unit will be curtailed. When this happens, the LMP is negative and Minnesota Power would be paying MISO to generate at this unit, or being paid not to generate. With the LMP this negative, the cost paid under the PPA is less than what Minnesota Power would have paid MISO if we would have generated.
Sep-14		None	None	None	None
Oct-14		None	None	None	None
Nov-14		2	\$163.42	2	Oliver County is a Dispatchable Intermittent Unit (DIR) within MISO. The offer price is set so that if the Locational Marginal Price (LMP) drops below the amount of a compensated curtailment payment amount on the PPA, then the unit will be curtailed. When this happens, the LMP is negative and Minnesota Power would be paying MISO to generate at this unit, or being paid not to generate. With the LMP this negative, the cost paid under the PPA is less than what Minnesota Power would have paid MISO if we would have generated.
Dec-14		None	None	None	None
Jan-15		None	None	None	None
Feb-15		None	None	None	None
Mar-15		2	\$150.32	2	Oliver County is a Dispatchable Intermittent Unit (DIR) within MISO. The offer price is set so that if the Locational Marginal Price (LMP) drops below the amount of a compensated curtailment payment amount on the PPA, then the unit will be curtailed. When this happens, the LMP is negative and Minnesota Power would be paying MISO to generate at this unit, or being paid not to generate. With the LMP this negative, the cost paid under the PPA is less than what Minnesota Power would have paid MISO if we would have generated.
Apr-15		None	None	None	None
May-15		None	None	None	None
Jun-15		None	None	None	None
<b>Total</b>		<b>5</b>	<b>\$ 400.36</b>		

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

## Bison Wind Energy Curtailment Reporting

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

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



Minnesota Power  
Bison Wind Energy Curtailment Reporting  
Reporting Period: July 1, 2014 - June 30, 2015

PUBLIC DOCUMENT  
TRADE SECRET DATA  
HAS BEEN EXCISED

Delivered MWh	Lost MWh
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**[TRADE SECRET  
DATA HAS BEEN  
EXCISED]**

Jul-14		1,259
Aug-14		2,385
Sep-14		16,257
Oct-14		3,394
Nov-14		0
Dec-14		0
Jan-15		0
Feb-15		0
Mar-15		0
Apr-15		0
May-15		617
Jun-15		0
<b>Total</b>		