



414 Nicollet Mall  
Minneapolis, Minnesota 55401

—Via Electronic Filing—

August 28, 2015

Darrell Nitschke  
Executive Secretary  
North Dakota Public Service Commission,  
State Capitol  
600 East Boulevard  
Bismarck, ND 58505-0480

**Re: September 2015 Fuel Cost Charge**

Dear Mr. Nitschke:

Northern States Power Company, doing business as Xcel Energy and operating in North Dakota, hereby submits its electric fuel cost charge (FCC) for September 2015.

Pursuant to Commission authorization of the final compliance tariffs in the Company's 2012 rate proceeding (Case No. PU-12-813), the new rates were implemented on May 1, 2014. The Service Category Ratios listed below also became effective:

<b>Service Category Ratios</b>	<b>Current</b>	<b>Effective May 2014</b>
<b>Residential</b>	1.0026	0.9969
<b>C &amp; I Non-Demand</b>	1.0281	1.0318
<b>C &amp; I Demand</b>	1.0170	1.0184
<b>C &amp; I Demand Time of Day On-Peak</b>	1.2883	1.2798
<b>C &amp; I Demand Time of Day Off-Peak</b>	0.7889	0.7954
<b>Outdoor Lighting</b>	0.7440	0.7341

The table below shows the Fuel Cost Charge by customer class category:

<b>September 2015</b>	<b>Fuel Cost Charge (\$/kWh)</b>
<b>Residential</b>	0.02248
<b>C &amp; I Non-Demand</b>	0.02327
<b>C &amp; I Demand</b>	0.02297
<b>C &amp; I Demand Time of Day On-Peak</b>	0.02886
<b>C &amp; I Demand Time of Day Off-Peak</b>	0.01794
<b>Outdoor Lighting</b>	0.01656

## **MISO CHARGES IMPLEMENTATION**

### MISO Day 2 Charges

This filing includes our reporting of the Midcontinent Independent System Operator, Inc. (MISO, formerly Midwest Independent Transmission System Operator, Inc.) charges under the Day 2 Market. Pursuant to the Commission's April 6, 2005 Order in Case No. PU-05-147 and the Order in Case No. PU-07-776, Xcel Energy is authorized to recover MISO Day 2 costs. The March 2009 FCC reflected the MISO Day 2 charge types: 3 Auction Revenue Rights (ARR) and 3 Financial Transmission Rights (FTR) charge types<sup>1</sup>, to be reflected in the Fuel Cost Rider. Consistent with this Order and the required "net" accounting of Day 2 costs and revenues, we have included in the September 2015 FCC the net MISO Day 2 costs for July 2015 as recorded in Account 555. The MISO Day 2 cost recovery included in this September 2015 FCC is \$4,805,434, which is the net of many items. Pursuant to the above mentioned Orders, the Company also provides more detailed records in Attachment 2, page 1 to support the calculation of the MISO Day 2 costs.

### MISO ASM Charges

With the implementation of the MISO Ancillary Services Market (ASM) on January 6, 2009, the net costs or revenues of 14 ASM charge types are included in the Fuel Cost Rider, pursuant to Commission guidance in Case No. PU-09-016. Consistent with the

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<sup>1</sup> Previously embedded in other FTR charge types.

MISO Order and the required “net” accounting of ASM costs and revenues, we include in the September 2015 FCC the net MISO ASM costs for July 2015 as recorded in Account 555. The MISO ASM cost recovery included in this September 2015 FCC is \$476,473, which is the net of many items. The detailed records are contained in Attachment 2, page 2.

## **SPENT NUCLEAR FUEL DISPOSAL FEE**

The Company received notification from the DOE on May 12, 2014 that the Spent Nuclear Fuel Disposal Fee, which was 1.0 mill per kilowatt hour of electricity generated and sold, would be discontinued effective May 16, 2014.<sup>2</sup> The Disposal Fee is an authorized component of FERC account 518. The charge had been collected from customers via a line item in our monthly Fuel Cost Charge filings. We no longer collect the Disposal Fee from North Dakota customers and will not do so unless, of course, the DOE reinstates a fee.

## **REFUNDS**

### Asset and Non-Asset Based Margins Sharing Refund

Under the terms of the Revised Second Amended Settlement adopted by the Commission<sup>3</sup> on February 26, 2014, retroactive to January 1, 2014, the Company began passing through 100 percent of wholesale asset based margins to North Dakota customers. The Asset Based Margin amount of \$225,260 has been included as a credit, or offset, to the September 2015 Fuel Cost Charges. The detailed records are contained in Attachment 3, page 1. Starting from February 2011, the prior year retail share of the Non-Asset Based Margins has been credited to the monthly FCC over the following 12-month period only if the calendar year balance is positive. The realized North Dakota retail share of the 2014 Non-Asset Based Margin credit is \$194,148 and this credit amount will be distributed equally each month over the following 12-month period. The refund reflected in the September 2015 FCC is \$10,758, or 0.006¢ per kWh (system basis). Attachment 3, page 2 contains the derivation of this refund amount.

### Sales of Renewable Energy Credits

Pursuant to the Commission Order dated September 9, 2010 in Case No. PU-10-19, the Company is authorized to sell excess Renewable Energy Credits (RECs) allocable to our North Dakota jurisdiction and credit 90 percent of the net proceeds back to customers through the Fuel Cost Rider (FCR). Under the February 26, 2014 Settlement, instead of 90 percent, 100 percent of the North Dakota state jurisdictional share of revenue

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<sup>2</sup> The Company submitted an informational filing to the Commission on May 21, 2014 regarding this charge in Case No. PU-14-012.

<sup>3</sup> Case Nos. PU-12-813, PU-13-706, PU-13-707, PU-13-708, PU-13-742, PU-13-743, PU-13-194, PU-13-195

generated by the sale of Renewable Energy Credits was credited to customers. (See Attachment 3, page 3).

### **PRAIRIE ROSE WIND PPA**

Pursuant to the Commission's December 21, 2012 Order in the Company's Advance Determination of Prudence application (Case No. PU-12-59), the energy and costs associated with the January 1, 2013 commencement of the Prairie Rose Wind (PRW) power purchase agreement (PPA) are being excluded from the calculation of the Company's monthly Fuel Cost Rider (FCR). Beginning with the March 2013 FCR filing, the Company has excluded the PRW PPA from any FCR calculations until the Commission has completed a ratemaking proceeding and made a decision regarding the rate treatment for the PRW PPA.

As a result of the Revised Second Amended Settlement adopted by the Commission on February 26, 2014, the Prairie Rose Wind energy costs incurred on and after February 26, 2014 would be included in the FCR calculation, and the Company would forego any unrecovered portion the Prairie Rose PPA had incurred prior to that time. As such, starting with the May 2014 FCC, the Company has included the Prairie Rose PPA costs in the computation.

### **PURCHASED POWER AGREEMENT (PPA) COST RECOVERY REVIEW**

Pursuant to the Commission's February 26, 2014 Order Adopting Settlement (Case No. PU-12-813) the following procedural changes reflected in Revised Second Amended Settlement were intended to provide additional transparency regarding cost recovery of renewable energy projects or purchases:

- The Company will notify the Commission in its monthly FCR filings of any new renewable projects, qualifying in part or whole for FCR cost recovery, whose costs are included in the calculation of the Fuel Cost Charges. In addition, the Company will file an annual summary listing the new resources that have been included in the FCR during the previous calendar year.
- Future renewable energy resources or purchases with FCR-qualifying costs that are 50 MW or larger in size (nameplate capacity) will require approval of an Advance Determination of Prudence before included for recovery in the FCR; and
- MISO market energy purchases are not subject to the above requirements.

For the September 2015 FCR reporting month there are no new renewable projects or purchases that require the above referenced reporting obligation. The Company will monitor and comply with these obligations under the Settlement going forward.

**OTHER REPORTING ITEM**

Attached is the calculation of the September 2015 FCC, as well as a statistical summary of energy sources and costs, compared to the previous month.

If you have any questions regarding the information contained in this filing, please contact Dave Sederquist at 701-241-8632.

Sincerely,

/ s /

AMY FREDREGILL  
MANAGER, RESOURCE PLANNING AND STRATEGY MANAGER

Enclosures (2)  
CC: David H. Sederquist

Northern States Power Company  
 Electric Operations - State of North Dakota  
 Derivation of Adjustment for Fuel Clause Rider  
 Current Period Cost of Energy for Sep-2015

Sep-2015 Fuel Cost Charges	Fuel Cost Factor	Energy True-Up Factor	Others or Refunds	Base & FCA Factor
<b>System</b>	<b>\$0.02791</b>	<b>-\$0.00209</b>	<b>-\$0.00327</b>	<b>\$0.02255</b>
<b>Residential</b>	<b>\$0.02782</b>	<b>-\$0.00208</b>	<b>-\$0.00326</b>	<b>\$0.02248</b>
<b>C &amp; I Non-Demand</b>	<b>\$0.02880</b>	<b>-\$0.00216</b>	<b>-\$0.00337</b>	<b>\$0.02327</b>
<b>C &amp; I Demand Non-TOD</b>	<b>\$0.02842</b>	<b>-\$0.00213</b>	<b>-\$0.00333</b>	<b>\$0.02297</b>
<b>C &amp; I Demand TOD On-Peak</b>	<b>\$0.03572</b>	<b>-\$0.00268</b>	<b>-\$0.00418</b>	<b>\$0.02886</b>
<b>C &amp; I Demand TOD Off-Peak</b>	<b>\$0.02220</b>	<b>-\$0.00166</b>	<b>-\$0.00260</b>	<b>\$0.01794</b>
<b>Outdoor Lighting</b>	<b>\$0.02049</b>	<b>-\$0.00153</b>	<b>-\$0.00240</b>	<b>\$0.01656</b>
<b>Residential</b>				
Residential Service	\$ 0.02782	\$ (0.00208)	\$ (0.00326)	\$ 0.02248
Residential TOD	\$ 0.02782	\$ (0.00208)	\$ (0.00326)	\$ 0.02248
Residential - Underground	\$ 0.02782	\$ (0.00208)	\$ (0.00326)	\$ 0.02248
Residential TOD - Underground	\$ 0.02782	\$ (0.00208)	\$ (0.00326)	\$ 0.02248
Energy Control - (Non-Demand)	\$ 0.02782	\$ (0.00208)	\$ (0.00326)	\$ 0.02248
Limit Off Peak	\$ 0.02782	\$ (0.00208)	\$ (0.00326)	\$ 0.02248
<b>C &amp; I Non-Demand</b>				
Energy Controlled - (Non-Demand)	\$ 0.02880	\$ (0.00216)	\$ (0.00337)	\$ 0.02327
Limit Off Peak	\$ 0.02880	\$ (0.00216)	\$ (0.00337)	\$ 0.02327
Small General Service	\$ 0.02880	\$ (0.00216)	\$ (0.00337)	\$ 0.02327
Small General TOD - Metered	\$ 0.02880	\$ (0.00216)	\$ (0.00337)	\$ 0.02327
Small General TOD - Unmetered	\$ 0.02880	\$ (0.00216)	\$ (0.00337)	\$ 0.02327
Fire and Civil Defense Siren	\$ 0.02880	\$ (0.00216)	\$ (0.00337)	\$ 0.02327
Direct Current (Closed)	\$ 0.02880	\$ (0.00216)	\$ (0.00337)	\$ 0.02327
<b>C &amp; I Demand</b>				
General Service	\$ 0.02842	\$ (0.00213)	\$ (0.00333)	\$ 0.02297
General TOD - On Peak	\$ 0.03572	\$ (0.00268)	\$ (0.00418)	\$ 0.02886
General TOD - Off Peak	\$ 0.02220	\$ (0.00166)	\$ (0.00260)	\$ 0.01794
Peak Controlled (Closed)	\$ 0.02842	\$ (0.00213)	\$ (0.00333)	\$ 0.02297
Peak Controlled TOD (Closed) - On Peak	\$ 0.03572	\$ (0.00268)	\$ (0.00418)	\$ 0.02886
Peak Controlled TOD (Closed) - Off Peak	\$ 0.02220	\$ (0.00166)	\$ (0.00260)	\$ 0.01794
Peak Controlled Tiered	\$ 0.02842	\$ (0.00213)	\$ (0.00333)	\$ 0.02297
Peak Controlled Tiered TOD - On Peak	\$ 0.03572	\$ (0.00268)	\$ (0.00418)	\$ 0.02886
Peak Controlled Tiered TOD - Off Peak	\$ 0.02220	\$ (0.00166)	\$ (0.00260)	\$ 0.01794
Energy Controlled (Closed)	\$ 0.02842	\$ (0.00213)	\$ (0.00333)	\$ 0.02297
Tier 1 Energy Controlled Rider	\$ 0.02842	\$ (0.00213)	\$ (0.00333)	\$ 0.02297
Real Time Pricing - Firm - On Peak	\$ 0.03572	\$ (0.00268)	\$ (0.00418)	\$ 0.02886
Real Time Pricing - Firm - Off Peak	\$ 0.02220	\$ (0.00166)	\$ (0.00260)	\$ 0.01794
Real Time Pricing - Controllable - On Peak	\$ 0.03572	\$ (0.00268)	\$ (0.00418)	\$ 0.02886
Real Time Pricing - Controllable - Off Peak	\$ 0.02220	\$ (0.00166)	\$ (0.00260)	\$ 0.01794
Small Municipal Pumping	\$ 0.02842	\$ (0.00213)	\$ (0.00333)	\$ 0.02297
Municipal Pumping	\$ 0.02842	\$ (0.00213)	\$ (0.00333)	\$ 0.02297
Excess Energy - St. Anthony Falls	\$ 0.02842	\$ (0.00213)	\$ (0.00333)	\$ 0.02297
<b>Outdoor Lighting</b>				
Automatic Protective Lighting	\$ 0.02049	\$ (0.00153)	\$ (0.00240)	\$ 0.01656
Street Lighting System	\$ 0.02049	\$ (0.00153)	\$ (0.00240)	\$ 0.01656
Street Lighting Energy	\$ 0.02049	\$ (0.00153)	\$ (0.00240)	\$ 0.01656
Street Lighting Energy - Metered	\$ 0.02049	\$ (0.00153)	\$ (0.00240)	\$ 0.01656
Street Lighting Energy (Closed)	\$ 0.02049	\$ (0.00153)	\$ (0.00240)	\$ 0.01656
Street Lighting - City of St. Paul	\$ 0.02049	\$ (0.00153)	\$ (0.00240)	\$ 0.01656

	Column (A)	Column (B)	Column (C)	Column (D)	Column (E)
	Apr-15	May-15	Jun-15	Jul-15	4 Month Total
<b>Fuel and Purchased Power Costs</b>					
Account 151 - Fossil Fuel	\$28,741,330	\$34,454,820	\$43,880,588	\$53,520,846	\$160,597,584
Account 518 - Nuclear Fuel	\$5,166,948	\$5,991,354	\$9,040,523	\$10,925,142	\$31,123,967
Account 555 - Purchased Power <sup>1</sup>	\$41,588,761	\$41,586,946	\$35,440,599	\$41,402,174	\$160,018,481
MISO Day 2 Charges	\$10,803,895	\$11,697,510	\$5,708,268	\$4,913,363	\$33,123,036
MISO Day 2 - Schedule 24	(\$66,716)	(\$67,235)	(\$74,240)	(\$107,928)	(\$316,119)
MISO - ASM Charges	\$2,398,803	\$1,933,374	\$2,040,626	\$476,473	\$6,849,276
Account 555 - Total MISO Charges	\$13,135,982	\$13,563,649	\$7,674,655	\$5,281,908	\$39,656,193
Financial Instruments	\$0	\$0	\$0	\$0	\$0
<b>Total System Costs</b>	<b>\$88,633,021</b>	<b>\$95,596,769</b>	<b>\$96,036,365</b>	<b>\$111,130,070</b>	<b>\$391,396,225</b>
Less Fuel Cost of InterSystem Sales	(\$4,114,198)	(\$2,876,511)	(\$6,214,716)	(\$8,211,120)	(\$21,416,546)
<b>Net System Costs</b>	<b>\$84,518,823</b>	<b>\$92,720,258</b>	<b>\$89,821,649</b>	<b>\$102,918,950</b>	<b>\$369,979,679</b>
<b>System MWh Sales</b>					
Total NSP System Retail	3,147,515	2,888,544	3,393,113	3,827,530	13,256,702
Non-Gen Muni's/Load Pattern	-	-	-	-	-
<b>Total NSP System MWh Sales</b>	<b>3,147,515</b>	<b>2,888,544</b>	<b>3,393,113</b>	<b>3,827,530</b>	<b>13,256,702</b>
<b>Average Unit Cost of Fuel and Purchased Power</b>					
<b>Fuel Cost per kWh for NSP System</b>					
Adjusted System Cost without Pr. Rose PPA	<b>2.685¢</b>	<b>3.210¢</b>	<b>2.647¢</b>	<b>2.689¢</b>	<b>2.791¢</b>
<b>Class Ratio/TOD Ratio</b>					
(i) Residential	0.9969	0.9969	0.9969	0.9969	0.9969
(ii) C & I Non-Demand	1.0318	1.0318	1.0318	1.0318	1.0318
(iii) C & I Demand Non-TOD	1.0184	1.0184	1.0184	1.0184	1.0184
(iv) C & I Demand TOD On-Peak	1.2798	1.2798	1.2798	1.2798	1.2798
(v) C & I Demand TOD Off-Peak	0.7954	0.7954	0.7954	0.7954	0.7954
(vi) Outdoor Lighting	0.7341	0.7341	0.7341	0.7341	0.7341
<b>North Dakota Fuel Cost Factor (FCF)</b>					
			Avg Unit Cost	FCF Ratio	4 Month Average
(i) Residential			2.791¢	0.9969	2.782¢
(ii) C & I Non-Demand			2.791¢	1.0318	2.880¢
(iii) C & I Demand Non-TOD			2.791¢	1.0184	2.842¢
(iv) C & I Demand TOD On-Peak			2.791¢	1.2798	3.572¢
(v) C & I Demand TOD Off-Peak			2.791¢	0.7954	2.220¢
(vi) Outdoor Lighting			2.791¢	0.7341	2.049¢
<b>North Dakota Retail MWh Sales</b>					
(i) Residential	60,072	45,419	52,685	61,780	219,956
(ii) C & I Non-Demand	9,430	7,725	8,383	8,826	34,364
(iii) C & I Demand Non-TOD	59,236	55,000	64,108	67,356	245,700
(iv) C & I Demand TOD On-Peak	17,251	16,590	20,283	19,286	73,410
(v) C & I Demand TOD Off-Peak	28,161	25,546	29,080	31,151	113,938
(vi) Outdoor Lighting	1,489	1,277	1,180	1,126	5,072
<b>(vii) Total</b>	<b>175,639</b>	<b>151,557</b>	<b>175,719</b>	<b>189,525</b>	<b>692,440</b>
<b>Sep-2015 Recovery Provision (True-up Factor) Calculation</b>					
Prior Unrecovered Expenses (May-15 Balance of Unrecovered Expenses)					Total
					May-15
					(\$1,309,056)

<sup>1</sup> Excludes demand-related expenses and includes Prairie Rose Wind PPA expenses

Prior Expenses Recovered in Jul-2015 [Billing Record]		
	ND Billed MWh Sales	Prior Received Expenses
(i) Residential	61,780	(\$16,722)
(ii) C & I Non-Demand	8,826	(\$1,577)
(iii) C & I Demand Non-TOD	67,356	(\$15,212)
(iv) C & I Demand TOD On-Peak	19,286	(\$6,382)
(v) C & I Demand TOD Off-Peak	31,151	(\$7,010)
(vi) Outdoor Lighting	1,126	\$342
(vii) Total	189,525	(\$46,561)

Actual Cost Should Have Been Recovered in Jul-15				
	Actual	Base	Actual ND MWh Sales	Expected Recovery
	2.689¢	0.000¢	189,525	\$5,096,327

Cost Recovered in Jul-15 [Billing Record]		
	ND Billed MWh Sales	Actual Recovery
(i) Residential	61,780	\$1,718,732
(ii) C & I Non-Demand	8,826	\$253,345
(iii) C & I Demand Non-TOD	67,356	\$1,907,551
(iv) C & I Demand TOD On-Peak	19,286	\$688,174
(v) C & I Demand TOD Off-Peak	31,151	\$691,133
(vi) Outdoor Lighting	1,126	\$22,745
(vii) Total	189,525	\$5,281,680

Total Balance of Unrecovered Expenses (Sep-15 Balance of Unrecovered Expenses)	
Sep-2015 Recovery Provision	(\$1,447,848)
4 Month ND Retail Total MWh Sales	692,440
Sep-2015 Recovery Provision per KWH	-0.209¢

Sep-2015 Recovery Provision (True-up Factor) per kWh by Customer Category			
	FAF Ratio	Recovery Provision Adjustment	Recovery Provision Adj by Class
(i) Residential	0.9969	-0.209¢	-0.208¢
(ii) C & I Non-Demand	1.0318	-0.209¢	-0.216¢
(iii) C & I Demand Non-TOD	1.0184	-0.209¢	-0.213¢
(iv) C & I Demand TOD On-Peak	1.2798	-0.209¢	-0.268¢
(v) C & I Demand TOD Off-Peak	0.7954	-0.209¢	-0.166¢
(vi) Outdoor Lighting	0.7341	-0.209¢	-0.153¢

Refunds/Additional Charges				
	Asset Based Margin Sharing Refund	Non-Asset Based Margin Sharing Refund	REC Refund	Total
<b>Refund/Special Charge Amount</b>	(\$225,260)	(\$10,758)	(\$357,607)	(\$582,867)
(i) Residential	-0.124¢	-0.006¢	-0.196¢	-0.326¢
(ii) C & I Non-Demand	-0.128¢	-0.006¢	-0.203¢	-0.337¢
(iii) C & I Demand Non-TOD	-0.126¢	-0.006¢	-0.200¢	-0.333¢
(iv) C & I Demand TOD On-Peak	-0.159¢	-0.008¢	-0.252¢	-0.418¢
(v) C & I Demand TOD Off-Peak	-0.099¢	-0.005¢	-0.157¢	-0.260¢
(vi) Outdoor Lighting	-0.091¢	-0.004¢	-0.144¢	-0.240¢

Sep-2015 Factors	
	Total
(i) Residential	2.248¢
(ii) C & I Non-Demand	2.327¢
(iii) C & I Demand Non-TOD	2.297¢
(iv) C & I Demand TOD On-Peak	2.886¢
(v) C & I Demand TOD Off-Peak	1.794¢
(vi) Outdoor Lighting	1.656¢

	<u>FCA Application</u>		<u>Comparison</u>		<u>Generation Type by Percent</u>		
	Aug-15	Sep-15	Differ- ence	Percent Change	FCA Application Aug-15	Sep-15	Differ- ence
<b>** COSTS (Millions) **</b>							
1 Fossil	\$147.7	\$160.6	\$12.9	8.7%	38.7%	41.0%	2.3%
2 Nuclear	\$28.6	\$31.1	\$2.5	8.7%	7.5%	8.0%	0.5%
3 Purchases	\$162.4	\$160.0	(\$2.3)	-1.4%	42.6%	40.9%	-1.7%
MISO related Purchases	\$42.7	\$39.7	(\$3.1)	-7.2%	11.2%	10.1%	-1.1%
4 Total System Costs	381.4	391.4	\$9.9	2.6%	100.0%	100.0%	0.0%
5 Intersystem Sales	\$20.3	\$21.4	\$1.1	5.4%	5.3%	5.5%	0.2%
6 Net System Costs	\$361.1	\$370.0	\$8.9	2.5%	94.7%	94.5%	-0.2%
7							
<b>** GWH OUTPUT **</b>							
9 Fossil	4,061	4,642	581	14.3%	27.0%	29.3%	2.3%
10 Nuclear	3,248	3,541	293	9.0%	21.6%	22.3%	0.7%
11 Purchases	4,891	4,656	(235)	-4.8%	32.5%	29.4%	-3.1%
12 Hydro & Other	2,386	2,510	124	5.2%	15.8%	15.8%	0.0%
13 Net Interchange	477	497	20	4.2%	3.2%	3.1%	-0.1%
14 Total Output	15,063	15,846	783	5.2%	100.0%	100.0%	0.0%
15 Intersystem Sales	1,045	1,024	(21)	-2.0%	6.9%	6.5%	-0.4%
16 Native Requirement	14,018	14,822	804	5.7%	93.1%	93.5%	0.4%
17							
<b>** COST per KWH OUTPUT (¢) **</b>							
19 Fossil	3.638	3.460	-0.178	-4.9%			
20 Nuclear	0.881	0.879	-0.002	-0.3%			
21 Purchases	3.319	3.437	0.117	3.5%			
22 Total System Costs	2.532	2.470	-0.062	-2.5%			
23 Intersystem Sales	1.944	2.091	0.147	7.6%			
24 Net System Costs	2.576	2.496	-0.080	-3.1%			
25							
26							
27 TOTAL SYSTEM GWH SALES	13,061	13,257	196	1.5%			
28							
29 COST per KWH SALES (¢)	2.765	2.791	0.026	0.9%			
30							
31 RECOVERY PROV (¢ / KWH) - SYS	0.146	-0.209	-0.356				
(i) Residential	0.146	-0.208	-0.354				
(ii) C & I Non-Demand	0.151	-0.216	-0.367				
(iii) C & I Demand Non-TOD	0.149	-0.213	-0.362				
(iv) C & I Demand TOD On-Peak	0.187	-0.268	-0.455				
(v) C & I Demand TOD Off-Peak	0.116	-0.166	-0.283				
(vi) Outdoor Lighting	0.107	-0.153	-0.261				
32 REFUND	0.295	-0.327	-0.622				
(i) Residential	0.296	-0.326					
(ii) C & I Non-Demand	0.303	-0.337					
(iii) C & I Demand Non-TOD	0.300	-0.333					
(iv) C & I Demand TOD On-Peak	0.380	-0.418					
(v) C & I Demand TOD Off-Peak	0.233	-0.260					
(vi) Outdoor Lighting	0.219	-0.240					
33 SYSTEM FCC IMPACT (¢ / KWH)	3.206	2.255	-0.952	-29.7%			
(i) Residential	3.196	2.248	-0.948				
(ii) C & I Non-Demand	3.308	2.327					
(iii) C & I Demand Non-TOD	3.265	2.297					
(iv) C & I Demand TOD On-Peak	4.103	2.886					
(v) C & I Demand TOD Off-Peak	2.550	1.794					
(vi) Outdoor Lighting	2.354	1.656					

Residential BILL IMPACT (\$'s)

Calculations:

		Change from kWh Previous Month
[ 4 ] = [1]+[2]+[3]	[21] = [3] / [11]	
[ 6 ] = [4] - [5]	[22] = [4] / [14]	100 (\$0.95)
[14] = [9]+..+[13]	[23] = [5] / [15]	250 (\$2.37)
[16] = [14] - [15]	[24] = [6] / [16]	500 (\$4.74)
[19] = [1] / [9]	[29] = [6] / [27]	750 (\$7.11)
[20] = [2] / [10]	[33] = [29]+[31]	1,000 (\$9.48)

Some miscellaneous totals refer to so many terms that their formula would be too long. So intermediate totals are developed here, then an overall total is taken and is rounded, and finally it's simply referred to above.

	<u>FCA Application</u>	
	Aug-15	Sep-15
<b>** GWH OUTPUT **</b>		
Thermal	1,715,848	1,877,151
Disper gen	(84)	(87)
<u>Hydro plus Wind</u>	669,746	633,269
Hydro and Other	2,385,510	2,510,333
Rounded to nearest thousand:	2,386	2,510
<u>Sales</u>		
Non Gen Munic Total	0	0
Load Pattern Power	0	0
<u>Resale &amp; Interchange (Intersystem)</u>	1,045,355,000	1,024,194,000
Rounded to nearest million:	1045.355	1024.194

		System	Intersystem	Retail
<b>July 2015 Actual</b>				
<b>Energy and Loss Charges</b>				
1 a	Day-Ahead Asset Energy Amount - Energy Component (1)	\$ 7,692,379.41	\$ 3,591,831.00	\$ 11,284,210.41
1 c	Day-Ahead Asset Energy Amount - Loss Component (1)	\$ 3,283,251.62	\$ -	\$ 3,283,251.62
3	Day-Ahead Financial Bilateral Transaction Loss Amount	\$ (70.21)	\$ -	\$ (70.21)
5 a	Day-Ahead Non-Asset Energy Amount - Energy Component (1)	\$ (12,614,280.97)	\$ -	\$ (12,614,280.97)
5 c	Day-Ahead Non-Asset Energy Amount - Loss Component (1)	\$ 1,251,554.12	\$ -	\$ 1,251,554.12
7	Day-Ahead Losses Rebate on Carve-Out Grandfathered Agreements	\$ 70.21	\$ -	\$ 70.21
9	Day-Ahead Losses Rebate on Option B Grandfathered Agreements	\$ -	\$ -	\$ -
13 a	Real-Time Asset Energy Amount - Energy Component (1)	\$ 574,075.32	\$ 1,089,671.94	\$ 1,663,747.26
13 c	Real-Time Asset Energy Amount - Loss Component (1)	\$ 50,389.81	\$ -	\$ 50,389.81
14	Real-Time Distribution of Losses Amount	\$ (1,618,305.61)	\$ -	\$ (1,618,305.61)
16	Real-Time Financial Bilateral Transaction Loss Amount	\$ 0.07	\$ -	\$ 0.07
18	Real-Time Losses Rebate on Carve-Out Grandfathered Agreements	\$ (0.07)	\$ -	\$ (0.07)
21	Real-time Net inadvertent Distribution	\$ (43,696.74)	\$ -	\$ (43,696.74)
22 a	Real-Time Non-Asset Energy Amount - Energy Component (1)	\$ 401,830.71	\$ -	\$ 401,830.71
22 c	Real-Time Non-Asset Energy Amount - Loss Component (1)	\$ (1,138.44)	\$ -	\$ (1,138.44)
<b>Congestion Related Charges</b>				
1 b	Day-Ahead Asset Energy Amount - Congestion Component (1)	\$ 1,183,357.19	\$ -	\$ 1,183,357.19
2	Day-Ahead Financial Bilateral Transmission Congestion Amount	\$ (5,035.63)	\$ -	\$ (5,035.63)
5 b	Day-Ahead Non-Asset Energy Amount - Congestion Component (1)	\$ 329,157.33	\$ -	\$ 329,157.33
6	Day-Ahead Congestion Rebate on Carve-Out Grandfathered Agreements	\$ 5,035.63	\$ -	\$ 5,035.63
8	Day-Ahead Congestion Rebate on Option B Grandfathered Agreements	\$ -	\$ -	\$ -
13 b	Real-Time Asset Energy Amount - Congestion Component (1)	\$ 128,797.38	\$ -	\$ 128,797.38
15	Real-Time Financial Bilateral Transaction Congestion Amount	\$ 1.00	\$ -	\$ 1.00
17	Real-Time Congestion Rebate on Carve-Out Grandfathered Agreements	\$ (1.00)	\$ -	\$ (1.00)
22 b	Real-Time Non-Asset Energy Amount - Congestion Component (1)	\$ 297.79	\$ -	\$ 297.79
<b>FTR Related Charges</b>				
28	Financial Transmission Rights Hourly Allocation Amount	\$ (1,393,667.94)	\$ -	\$ (1,393,667.94)
30	Financial Transmission Rights Monthly Allocation Amount	\$ (99,094.55)	\$ -	\$ (99,094.55)
31	Financial Transmission Rights Transaction Amount	\$ -	\$ -	\$ -
32	Financial Transmission Rights Yearly Allocation Amount	\$ -	\$ -	\$ -
36	Financial Transmission Rights Full Funding Guarantee Amount	\$ (58,202.42)	\$ -	\$ (58,202.42)
37	Financial Transmission Guarantee Uplift Amount	\$ 55,575.36	\$ -	\$ 55,575.36
38	Financial Transmission Rights Monthly Transaction Amount	\$ -	\$ -	\$ -
<b>Uplift Charges</b>				
23	Real-Time Revenue Neutrality Uplift Amount	\$ 390,146.59	\$ -	\$ 390,146.59
<b>Revenue Sufficiency Guarantee (RSG) Charges</b>				
10	Day-Ahead Revenue Sufficiency Guarantee Distribution Amount	\$ 153,978.86	\$ -	\$ 153,978.86
11	Day-Ahead Revenue Sufficiency Guarantee Make Whole Payment Amount	\$ (22,281.74)	\$ (1,739.35)	\$ (24,021.09)
24	Real-Time Revenue Sufficiency Guarantee First Pass Distribution Amount	\$ 197,385.63	\$ -	\$ 197,385.63
25	Real-Time Revenue Sufficiency Make Whole Payment Amount	\$ (82,384.43)	\$ 35,469.81	\$ (46,914.62)
43	Real-Time Price Volatility Make Whole Payment Amount	\$ (237,766.76)	\$ 11,019.53	\$ (226,747.23)
<b>Market Administration Charges</b>				
4	Day-Ahead Market Administration Amount	\$ 603,358.36	\$ (10,041.65)	\$ 593,316.71
19	Real-Time Market Administration Amount	\$ 35,141.17	\$ (2,812.19)	\$ 32,328.98
29	Financial Transmission Rights Market Administration Amount	\$ 26,067.44	\$ -	\$ 26,067.44
33	Day-Ahead Schedule 24 Allocation Amount	\$ 87,199.99	\$ (1,443.05)	\$ 85,756.94
34	Real-Time Schedule 24 Allocation Amount	\$ (98,216.85)	\$ 120,388.25	\$ 22,171.40
35	Schedule 24 Admin Allocation	\$ -	\$ -	\$ -
<b>Virtual Energy Charges</b>				
12	Day-Ahead Virtual Energy Amount	\$ -	\$ -	\$ -
27	Real-Time Virtual Energy Amount	\$ -	\$ -	\$ -
<b>Other MISO Charges</b>				
20	Real-Time Miscellaneous Amount	\$ (47,233.47)	\$ 40,902.19	\$ (6,331.28)
26	Real-Time Uninstructed Deviation Amount	\$ -	\$ -	\$ -
<b>Auction Revenue Rights (ARR)</b>				
39	Auction Revenue Rights - FTR Auction Transactions	\$ 3,516,999.68	\$ -	\$ 3,516,999.68
40	Auction Revenue Rights - Monthly ARR Revenue	\$ (3,588,338.38)	\$ -	\$ (3,588,338.38)
41	Auction Revenue Rights - ARR Stage 2 Distribution	\$ (83,283.16)	\$ -	\$ (83,283.16)
42	Auction Revenue Rights - Monthly Infeasible ARR Revenue	\$ 67,063.94	\$ -	\$ 67,063.94
<b>TOTAL MISO CHARGES</b>		<b>\$ 40,116.24</b>	<b>\$ 4,873,246.48</b>	<b>\$ 4,913,362.72</b>
<b>SCHEDULE 24 (FOR RETAIL)</b>				<b>\$ 107,928.34</b>
<b>TOTAL MISO CHARGES LESS SCHEDULES 24 (FOR RETAIL)</b>				<b>\$ 4,805,434.38</b>

## MISO ANCILLARY SERVICES MARKETS (ASM) CHARGE TYPES BY CATEGORIES

		System	Intersystem	Retail
<b>July 2015 Actual</b>				
<b>Procurement Charges</b>				
1	Day-Ahead Regulation Amount	\$ (57,199.93)	\$ -	\$ (57,199.93)
2	Day-Ahead Spinning Reserve Amount	\$ (122,318.89)	\$ -	\$ (122,318.89)
3	Day-Ahead Supplemental Reserve	\$ (73,586.68)	\$ -	\$ (73,586.68)
4	Real-Time Regulation Amount	\$ (82,014.94)	\$ 43,573.90	\$ (38,441.04)
5	Real-Time Spinning Reserve Amount	\$ (30,639.63)	\$ 60,745.01	\$ 30,105.38
6	Real-Time Supplemental Reserve Amount.	\$ 17,028.97	\$ 9,474.72	\$ 26,503.69
<b>Resource Energy Charges</b>				
7a	Real Time Excessive Energy Amount	\$ (26,561.20)	\$ -	\$ (26,561.20)
7b	Real Time Excessive Energy Congestion	\$ -	\$ -	\$ -
7c	Real Time Excessive Energy Loss	\$ -	\$ -	\$ -
8a	Real Time Non Excessive Energy Amount	\$ 546,921.45	\$ -	\$ 546,921.45
8b	Real Time Non Excessive Energy Congestion	\$ (160,907.88)	\$ -	\$ (160,907.88)
8c	Real Time Non Excessive Energy Loss	\$ (30,879.38)	\$ -	\$ (30,879.38)
9	Real Time Net Regulation Adjustment Amount	\$ 12,044.79	\$ (5,239.76)	\$ 6,805.03
<b>Cost Distribution Charges</b>				
10	Real Time Regulation Reserve Cost Distribution Amount	\$ 89,641.02	\$ -	\$ 89,641.02
11	Real Time Spinning Reserve Cost Distribution	\$ 173,114.10	\$ -	\$ 173,114.10
12	Real Time Supplemental Reserve Cost Distribution	\$ 54,284.03	\$ -	\$ 54,284.03
<b>Penalty Charges</b>				
13	Real Time Excessive/Dificient Energy Deployment	\$ 71,981.87	\$ (14,514.42)	\$ 57,467.45
14	Real Time Contignecy Reserve Deployment Failure	\$ 4,651.56	\$ (3,125.44)	\$ 1,526.12
<b>TOTAL MISO ASM CHARGES</b>		<b>\$ 385,559.26</b>	<b>\$ 90,914.01</b>	<b>\$ 476,473.27</b>

Northern States Power Company  
 Electric Operations - State of North Dakota  
 Derivation of Adjustment for Fuel Clause Rider  
 Asset Based Margin Sharing

1 Forecast Month	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16
2 True-up Month	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
3												
4 Monthly Refund	(58,150)	(58,410)	(63,921)	(11,298)	(31,343)	(34,586)	(41,850)					
5												
6 Forecast North Dakota Sales	214,698	190,045	163,417	175,362	193,801	189,560	181,682	174,056	174,056	-	-	-
7												
8 <b>Current Month Refund Factor</b>	(0.027)	(0.031)	(0.039)	(0.006)	(0.016)	(0.018)	(0.023)	-	-	-	-	-
9												
14 Expected Refund	(240,764)	87,087	(225,701)	104,158	(229,020)	145,774	(208,331)	181,481	(225,260)	-	-	-
15 Actual Refunded	(73,213)	(75,480)	(60,602)	(52,914)	(52,032)	(70,293)	(24,921)					
16 Deviation	(167,551)	162,567	(165,099)	157,072	(176,988)	216,067	(183,410)	181,481	(225,260)	-	-	-
17												
18 <b>True-up Factor</b>	(0.078)	0.086	(0.101)	0.090	(0.091)	0.114	(0.101)	-	-	-	-	-
19												
20 <b>Realized Margin</b>	(0.105)	0.055	(0.140)	0.083	(0.107)	0.096	(0.124)	-	-	-	-	-
21												
22 <b>Class Ratios</b>												
23 Residential	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969
24 C&I Non-Demand	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318
25 C&I Demand Non-TOD	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184
26 C&I Demand TOD On-Peak	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798
27 C&I Demand TOD Off-Peak	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954
28 Outdoor Lighting	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341
29												
30 <b>Realized Margin Adj for Class Ratios</b>												
31 Residential	(0.105)	0.055	(0.140)	0.083	(0.107)	0.095	(0.124)	-	-	-	-	-
32 C&I Non-Demand	(0.108)	0.057	(0.145)	0.086	(0.111)	0.099	(0.128)	-	-	-	-	-
33 C&I Demand Non-TOD	(0.107)	0.056	(0.143)	0.085	(0.109)	0.098	(0.126)	-	-	-	-	-
34 C&I Demand TOD On-Peak	(0.135)	0.070	(0.179)	0.106	(0.138)	0.123	(0.159)	-	-	-	-	-
35 C&I Demand TOD Off-Peak	(0.084)	0.044	(0.111)	0.066	(0.086)	0.076	(0.099)	-	-	-	-	-
36 Outdoor Lighting	(0.077)	0.040	(0.103)	0.061	(0.079)	0.070	(0.091)	-	-	-	-	-

Northern States Power Company  
 Electric Operations - State of North Dakota  
 Derivation of Adjustment for Fuel Clause Rider  
 Non-Asset Based Margin Sharing

1 Forecast Month	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16
2 True-up Month	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15
3												
4 Monthly Refund	(16,179)	(16,179)	(16,179)	(16,179)	(16,179)	(16,179)	(16,179)	(16,179)	(16,179)	(16,179)	(16,179)	(16,179)
5												
6 Forecast North Dakota Sales	203,682	214,698	190,045	163,417	175,362	193,801	189,560	181,682	-	-	-	-
7												
8 <b>Current Month Refund Factor</b>	(0.008)	(0.008)	(0.009)	(0.010)	(0.009)	(0.008)	(0.009)	(0.009)	-	-	-	-
13												
14 Expected Refund	(9,871)	(6,219)	(16,187)	(13,100)	(22,770)	(13,615)	(23,562)	(14,351)	-	-	-	-
15 Actual Refund	(9,863)	(9,298)	(9,596)	(15,664)	(15,387)	(15,443)	(18,574)	(19,772)	-	-	-	-
16 Deviation	(8)	3,079	(6,591)	2,564	(7,383)	1,828	(4,988)	5,421	-	-	-	-
17												
18 <b>True-up Factor</b>	(0.000)	0.001	(0.003)	0.002	(0.004)	0.001	(0.003)	0.003	-	-	-	-
19												
20 <b>Realized Margin</b>	(0.008)	(0.006)	(0.012)	(0.008)	(0.013)	(0.007)	(0.011)	(0.006)	-	-	-	-
21												
22 <b>Class Ratios</b>												
23 Residential	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969
24 C&I Non-Demand	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318
25 C&I Demand Non-TOD	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184
26 C&I Demand TOD On-Peak	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798
27 C&I Demand TOD Off-Peak	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954
28 Outdoor Lighting	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341
29												
30 <b>Realized Margin Adj for Class Ratios</b>												
31 Residential	(0.008)	(0.006)	(0.012)	(0.008)	(0.013)	(0.007)	(0.011)	(0.006)	-	-	-	-
32 C&I Non-Demand	(0.008)	(0.006)	(0.012)	(0.009)	(0.014)	(0.008)	(0.012)	(0.006)	-	-	-	-
33 C&I Demand Non-TOD	(0.008)	(0.006)	(0.012)	(0.008)	(0.014)	(0.008)	(0.011)	(0.006)	-	-	-	-
34 C&I Demand TOD On-Peak	(0.010)	(0.008)	(0.015)	(0.011)	(0.017)	(0.009)	(0.014)	(0.008)	-	-	-	-
35 C&I Demand TOD Off-Peak	(0.006)	(0.005)	(0.010)	(0.007)	(0.011)	(0.006)	(0.009)	(0.005)	-	-	-	-
36 Outdoor Lighting	(0.006)	(0.004)	(0.009)	(0.006)	(0.010)	(0.005)	(0.008)	(0.004)	-	-	-	-

Northern States Power Company  
 Electric Operations - State of North Dakota  
 Derivation of Adjustment for Fuel Clause Rider  
 Sales of Renewable Energy Credits

1 Forecast Month	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16
2 True-up Month	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
3												
4 Monthly Refund	-	-	-	-	-	-	-	-	-	-	-	-
5												
6 Forecast North Dakota Sales	214,698	190,045	163,417	175,362	193,801	189,560	181,682					
7												
8 <b>Current Month Refund Factor</b>	-	-	-	-	-	-	-	-	-	-	-	-
9												
14 Expected Refund	(378,673)	240,848	(401,239)	314,753	(346,179)	351,946	(335,018)	-	-	-	-	-
15 Actual Refund	22,566	(73,905)	(55,060)	(37,193)	(11,161)	(46,118)	22,589					
16 Deviation	(401,239)	314,753	(346,179)	351,946	(335,018)	398,064	(357,607)	-	-	-	-	-
17												
18 <b>True-up Factor</b>	(0.187)	0.166	(0.212)	0.201	(0.173)	0.210	(0.197)	-	-	-	-	-
19												
20 <b>Realized Refund</b>	(0.187)	0.166	(0.212)	0.201	(0.173)	0.210	(0.197)	-	-	-	-	-
21												
22 <b>Class Ratios</b>												
23 Residential	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969	0.9969
24 C&I Non-Demand	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318	1.0318
25 C&I Demand Non-TOD	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184	1.0184
26 C&I Demand TOD On-Peak	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798	1.2798
27 C&I Demand TOD Off-Peak	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954	0.7954
28 Outdoor Lighting	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341	0.7341
29												
30 <b>Realized Margin Adj for Class Ratios</b>												
31 Residential	(0.186)	0.165	(0.211)	0.200	(0.172)	0.209	(0.196)	-	-	-	-	-
32 C&I Non-Demand	(0.193)	0.171	(0.219)	0.207	(0.178)	0.217	(0.203)	-	-	-	-	-
33 C&I Demand Non-TOD	(0.190)	0.169	(0.216)	0.204	(0.176)	0.214	(0.200)	-	-	-	-	-
34 C&I Demand TOD On-Peak	(0.239)	0.212	(0.271)	0.257	(0.221)	0.269	(0.252)	-	-	-	-	-
35 C&I Demand TOD Off-Peak	(0.149)	0.132	(0.168)	0.160	(0.137)	0.167	(0.157)	-	-	-	-	-
36 Outdoor Lighting	(0.137)	0.122	(0.156)	0.147	(0.127)	0.154	(0.144)	-	-	-	-	-