



414 Nicollet Mall  
Minneapolis, MN 55401

October 30, 2018

—Via Electronic Filing—

Executive Secretary  
North Dakota Public Service Commission  
State Capitol Building, Dept. 408  
600 East Boulevard  
Bismarck, ND 58505-0480

RE: COST OF GAS RIDER CHANGE  
CASE NO. PU-18-009

Dear Executive Secretary:

Northern States Power Company, doing business as Xcel Energy, is filing this COG for gas used on and after November 1, 2018 in North Dakota. The attached schedules show the new gas cost supporting worksheets and applicable pipeline tariff sheets.

The net effect of the COG is an increase to the Residential rate by \$0.11374 per therm from the October COG rate, 35.28%, or \$10.12 for a typical November North Dakota Residential customer using 89 therms. Compared to October, the Commercial/Industrial price is 26.04% higher and the Interruptible prices are 18.15-20.04% higher. The increase is a result of increased commodity and demand costs. The commodity costs increased due to the risk premium being added to commodity prices as a result of the lower than expected storage levels heading into the winter heating season. Compared to last November, prices are 13-22% higher.

We have also updated the ND true-up factors in the November cost of gas to reflect a revised true-up filing that is being submitted concurrently. The change is due to a decrease in the ND statutory tax rate due to the lower federal income tax rate.

The cost-of-gas rates for November are as follows:

<u>Customer Class</u>	<u>\$/therm</u>
Residential	\$0.43614
Commercial/Industrial	\$0.44245
Small Interruptible	\$0.37305
Large Interruptible	\$0.37305

Please contact Michelle Terwilliger at [michelle.m.terwilliger@xcelenergy.com](mailto:michelle.m.terwilliger@xcelenergy.com) or (612) 330-5845, or me at [lisa.r.peterson@xcelenergy.com](mailto:lisa.r.peterson@xcelenergy.com) or (612) 330-7681 if you have questions regarding this filing.

Sincerely,

/s/

LISA PETERSON  
MANAGER, REGULATORY ANALYSIS

Enclosures

Class	Component	Distribution Charge	Cost of Gas	Total Rate
Residential	Basic Service	\$18.48		\$18.48
	Commodity	\$0.00000	\$0.43614	\$0.43614
Commercial/Industrial	Basic Service	\$30.00		\$30.00
	Commodity	\$0.10800	\$0.44245	\$0.55045
Small Interruptible	Basic Service	\$75.00		\$75.00
	Commodity	\$0.08800	\$0.37305	\$0.46105
Large Interruptible	Basic Service	\$275.00		\$275.00
	Commodity	\$0.05120	\$0.37305	\$0.42425

Units:

Customer Charge - \$ per month

Commodity Charge - \$ per therm

**COST OF GAS SUMMARY BY CLASS - NORTH DAKOTA**

November 1, 2018

NATURAL GAS COST COMPONENT

	Ref	1	2	3
		Prior Cost	Current Adjusts	Current Cost
<b>Cost Summary</b>				
Annual Demand	(a)	0.04413	0.04285	0.08698
<u>Commodity</u>				
Residential	(b)	0.28550	0.07088	0.35638
C & I	(b)	0.28550	0.07088	0.35638
Sm Interruptible	(b)	0.28550	0.07088	0.35638
Large Interruptible	(b)	0.28550	0.07088	0.35638

BILLING COST OF GAS BY CLASS (From Column 3)

<b>Class Summary</b>	Residential	C&I	Small Interruptible	Large Interruptible
Annual Demand	0.08698	0.08698	N / A	N / A
Commodity	0.35638	0.35638	0.35638	0.35638
SUBTOTAL	0.44336	0.44336	0.35638	0.35638
TRUE-UP	-0.00722	-0.00091	0.01667	0.01667
TOTAL COG	0.43614	0.44245	0.37305	0.37305

**DERIVATION OF CURRENT COSTS - NORTH DAKOTA**

November 1, 2018

	<u>12-Month Cost</u>	<u>Winter Cost</u>	Total Cost
<b><u>Demand Cost (Residential and Commercial Firm)</u></b>			
1. System Demand Detail Total	\$33,161,576	\$23,939,582	
2. <u>x North Dakota Design Day Ratio</u>	<u>12.49%</u>	<u>12.49%</u>	
3. North Dakota System Demand Allocation	\$4,141,881	\$2,990,054	
4. ND Annual / Seasonal Firm Therm Sales (Forecast)	92,716,000	70,670,742	
5. Demand Unit Cost \$/Therm	\$0.04467	\$0.04231	\$0.08698 (a)
<b><u>Commodity Cost</u></b>			
6. NNG Annual/Best Effort/Viking/WBI/Xcel Energy Peakshaving			\$32,013,522
7. <u>x ND Portion of Monthly Retail Sales</u>			<u>14.43%</u>
8. ND Portion of Monthly Commodity Costs			\$4,619,551
9. ND Budgeted Calendar Month Retail Therm Sales			12,962,336
10. Commodity Unit Cost \$/Therm (8 / 9)			\$0.35638 (b)
11. Hedging Cost per Therm (informational)	\$0.00507		
<b><u>Total Gas Cost per Therm</u></b>			
12. Residential/Commercial & Industrial			<b>\$0.44336</b> (a) + (b)
13. Small and Large Interruptible Commodity			<b>\$0.35638</b> (b)

Northern States Power Company

RETAIL CALENDAR-MONTH BUDGETED SALES FORECAST - DEKATHERMS

<u>MN Cal Mo Dkt Sales</u>	Current <u>Month</u>	2019 <u>Jan</u>	2019 <u>Feb</u>	2019 <u>Mar</u>	2019 <u>Apr</u>	2019 <u>May</u>	2019 <u>June</u>	2019 <u>July</u>	2019 <u>Aug</u>	2018 <u>Sept</u>	2018 <u>Oct</u>	2018 <u>Nov</u>	2018 <u>Dec</u>	<u>Annual</u>
MN Total	7,687,353	12,945,679	11,088,342	9,086,816	5,028,561	2,889,885	1,919,717	1,764,411	1,838,280	2,148,629	4,083,126	7,687,353	11,544,618	72,025,417
<u>ND Cal Mo Dkt Sales</u>														
Res, Firm Commercial	1,032,383	1,778,307	1,451,940	1,237,703	625,391	337,133	179,005	156,606	169,491	230,076	506,823	1,032,383	1,566,741	9,271,600
Sm Int	61,844	87,675	68,526	82,095	45,631	33,939	31,087	23,246	25,339	28,025	41,548	61,844	81,128	610,083
Lg Int	202,007	196,599	194,176	206,721	139,782	122,168	162,626	133,687	152,915	134,485	173,430	202,007	199,122	2,017,717
<u>Idept</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
ND Total	1,296,234	2,062,580	1,714,642	1,526,519	810,805	493,240	372,718	313,540	347,745	392,586	721,800	1,296,234	1,846,992	11,899,400
NSPM Total	8,983,586	15,008,260	12,802,984	10,613,336	5,839,366	3,383,125	2,292,434	2,077,951	2,186,025	2,541,214	4,804,926	8,983,586	13,391,609	83,924,817

MN & ND Non-Trnsp	8,983,586
MN %	85.57%
ND%	14.43%

**MONTHLY TRUE-UP ESTIMATE OF GAS COST RECOVERY - NORTH DAKOTA**

July 2018 through September 2018

<b>ND Gas Cost Recovery</b>	2018						2019					
	<b>July</b>	<b>August</b>	<b>September</b>	<b>October</b>	<b>November</b>	<b>December</b>	<b>January</b>	<b>February</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June</b>
Residential	\$136,200	\$146,220	\$133,596	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Commercial & Industrial	\$372,596	\$388,929	\$383,560	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Small Interruptible	\$76,366	\$76,128	\$75,645	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Large Interruptible	\$297,489	\$381,705	\$397,463	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$882,650</b>	<b>\$992,981</b>	<b>\$990,265</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

<b>MN-Company Gas Costs</b>	<b>July</b>	<b>August</b>	<b>September</b>	<b>October</b>	<b>November</b>	<b>December</b>	<b>January</b>	<b>February</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June</b>
Demand	\$2,979,448	\$3,045,045	\$3,043,791	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Commodity	\$7,308,392	\$8,163,615	\$8,206,430	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Peak Shaving	\$82,987	\$54,493	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total Costs</b>	<b>\$10,370,827</b>	<b>\$11,263,153</b>	<b>\$11,250,221</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**ND Allocation Factors**

Weighted Avg Demand *	0.1243	0.1243	0.1243	0.1243	0.1249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Commodity (Monthly Sales)	0.1457	0.1580	0.1554	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Peak Shaving (Monthly Sales)	0.1457	0.1580	0.1554	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**ND Gas Costs**

Demand	\$370,345	\$378,499	\$378,343	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Commodity	\$1,064,833	\$1,289,851	\$1,275,279	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Peak Shaving	\$12,091	\$8,610	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total Costs</b>	<b>\$1,447,269</b>	<b>\$1,676,960</b>	<b>\$1,653,622</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Over (Under) Recovery	(\$564,619)	(\$683,979)	(\$663,357)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Deferred Tax (@40.73%)	(\$229,969)	(\$278,585)	(\$270,185)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Balance	(\$334,650)	(\$405,394)	(\$393,172)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Net Balance	(\$334,650)	(\$740,044)	(\$1,133,216)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Interest Rate	1.96%	2.03%	2.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Monthly Interest	\$0	(\$6,793)	(\$15,763)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Interest		(\$6,793)	(\$22,556)	(\$22,556)	(\$22,556)	(\$22,556)	(\$22,556)	(\$22,556)	(\$22,556)	(\$22,556)	(\$22,556)	(\$22,556)

\* Wtd Average of Design Day (Sched A, Pg 3)

**PUBLIC DOCUMENT**  
**NOT PUBLIC DATA HAS BEEN EXCISED**

**Purchased Gas Adjustment, November 2018**  
**Northern States Power Company**  
**Demand Charge Detail**

Type	Pipeline	Service Type/ Supplier	Volume Dth per Day	Monthly Demand Rate	No. of Months	Total Annual Cost		12-Month Cost	Winter-Month Cost
						by Supplier	by Pipeline		
<b>FIRM TRANSPORT</b>									
NNG	TF12	112183 (Base)	104,117	\$10.2300	5	\$5,325,584.55		\$5,325,584.55	
	TF12	112183 (Base)	104,117	\$5.6830	7	\$4,141,878.38		\$4,141,878.38	
	TF12	112183 (Variable)	0	\$13.8660	5	\$0.00		\$0.00	
	TF12	112183 (Variable)	0	\$5.6830	7	\$0.00		\$0.00	
	TF5	112183	62,415	\$15.1530	5	\$4,728,872.48			\$4,728,872.48
	TF12	112182 (Base) C/R	0	\$3.9520	12	\$0.00		\$0.00	
	TF12	112182 (Base) LE	0	\$4.5600	12	\$0.00		\$0.00	
	TF12	112182 (Base) Hugo	18,674	\$4.1040	12	\$919,657.15		\$919,657.15	
	TF12	112182 (Variable) C/R	31,801	\$3.9520	12	\$1,508,130.62		\$1,508,130.62	
	TF12	112182 (Variable) LE	32,608	\$4.5600	12	\$1,784,309.76		\$1,784,309.76	
	TF12	112182 (Variable) Hugo	11,444	\$4.1040	12	\$563,594.11		\$563,594.11	
	TF5	112182 C/R	13,233	\$3.9520	5	\$261,484.08			\$261,484.08
	TF5	112182 LE	15,338	\$4.5600	5	\$349,706.40			\$349,706.40
	TF5	112182 Hugo	1,028	\$4.1040	5	\$21,094.56			\$21,094.56
	TFX	112185 C/R	1,680	\$4.2560	12	\$85,800.96		\$85,800.96	
	TFX	112185 Hugo	7,701	\$4.1040	5	\$158,024.52		\$158,024.52	
	TFX	112185 C/R	48,576	\$3.9520	5	\$959,861.76			\$959,861.76
	TFX	112185 LE	2,270	\$4.5600	5	\$51,756.00			\$51,756.00
	TFX	112185 Hugo	8,546	\$4.1040	5	\$175,363.92			\$175,363.92
	TFX	112185 Hugo	10,000	\$3.3440	12	\$401,280.00		\$401,280.00	
	TFX	112185 Hugo	3,376	\$4.1040	2	\$27,710.21		\$27,710.21	
	TFX	112185 LE	16,666	\$6.1032	5	\$508,579.66			\$508,579.66
	TFX	112185 LE	16,666	\$4.5000	7	\$524,979.00		\$524,979.00	
	TFX	112186	57,491	\$15.1530	5	\$4,355,805.62			\$4,355,805.62
	TFX	112186	35,739	\$5.6830	5	\$1,015,523.69		\$1,015,523.69	
	TFX	112186	16,436	\$5.6830	2	\$186,811.58		\$186,811.58	
	TFX	112184	25,000	\$12.5000	5	\$1,562,500.00			\$1,562,500.00
	TFX	122067	10,291	\$9.3568	5	\$481,454.14			\$481,454.14
	TFX	122067	10,291	\$4.0000	7	\$288,148.00		\$288,148.00	
	TFX	122068	8,875	\$15.1530	5	\$672,414.38			\$672,414.38
	TFX	122068	8,875	\$5.6830	7	\$353,056.38		\$353,056.38	
	TFX	111739	28,500	\$15.1530	5	\$2,159,302.50	\$33,572,684.41		\$2,159,302.50
VGT	FTA	AF0156	72,213	\$5.3593	12	\$4,644,133.57		\$4,644,133.57	
	FTA	AF0044	4,239	\$4.3706	5	\$92,634.87			\$92,634.87
	FTA	AF0044	29,002	\$4.3706	12	\$1,521,073.69		\$1,521,073.69	
	FTA	AF0103	10,000	\$4.3706	12	\$524,472.00		\$524,472.00	
	FTA	AF0037	15,600	\$5.3593	12	\$1,003,260.96		\$1,003,260.96	
	FTA	AF0116	1,903	\$4.3706	12	\$99,807.02		\$99,807.02	
	FTA	AF0218	15,000	\$5.3593	12	\$964,674.00		\$964,674.00	
	FTA	AF0329	20,200	\$4.3706	12	\$1,059,433.44	\$9,909,489.55	\$1,059,433.44	
ANR	FTS	114492	66,500	\$5.3660	12	\$4,282,068.00		\$4,282,068.00	
	FTS	106209	4,829	\$9.1300	12	\$529,065.24		\$529,065.24	
	FTS	106211	15,171	\$5.7290	5	\$434,573.30			\$434,573.30
	FTS	106211	5,448	\$5.7290	7	\$218,481.14	\$5,464,187.68		\$218,481.14
GLT	FT1	18394	3,509	\$8.3530	5	\$146,553.39			\$146,553.39
	FT1	18394	4,475	\$8.3530	7	\$261,657.73		\$261,657.73	
	FT1	18071	9,248	\$8.3530	5	\$386,242.72			\$386,242.72
	FT1	18130	895	\$8.3530	7	\$52,331.55	\$846,785.39	\$52,331.55	
WBI	FT-	1097	8,000	\$9.2100	12	\$884,160.00		\$884,160.00	
	FT-	1125	461	\$9.2100	12	\$50,949.72	\$935,109.72	\$50,949.72	
<b>Subtotal Firm Transport:</b>						\$50,728,256.75	\$33,161,575.83	\$17,566,680.92	

3rd PARTY SUPPLIES  
[PROTECTED DATA BEGINS

[PROTECTED DATA ENDS]  
\$1,435,020.00      \$0.00      \$1,435,020.00

**PUBLIC DOCUMENT**  
**NOT PUBLIC DATA HAS BEEN EXCISED**

**Purchased Gas Adjustment, November 2018**  
**Northern States Power Company**  
**Demand Charge Detail**

Type	Pipeline	Service Type/ Supplier	Volume Dth per Day	Monthly Demand Rate	No. of Months	Total Annual Cost		12-Month Cost	Winter-Month Cost
						by Supplier	by Pipeline		
<i>STORAGE</i>									
	ANR	ANRP: R	15,295	\$1.7820	12	\$327,068.28	\$327,068.28		\$327,068.28
	ANRS	ANRS: R	9,248	\$1.0924	12	\$121,230.18	\$121,230.18		\$121,230.18
	NNG	FDD: R	140,230	\$1.7140	12	\$2,884,250.64			\$2,884,250.64
		FDD: R	78,050	\$1.7140	12	<u>\$1,605,332.40</u>	<u>\$4,489,583.04</u>		<u>\$1,605,332.40</u>
	<i>Subtotal Storage:</i>						\$4,937,881.50		\$4,937,881.50
<b>TOTAL MN/ND ALLOCATED DEMAND:</b>						<u>\$57,101,158.25</u>	<u>\$33,161,575.83</u>		<u>\$23,939,582.42</u>

**PUBLIC DOCUMENT**  
**NOT PUBLIC DATA HAS BEEN EXCISED**

**Purchased Gas Adjustment, November 2018**  
**Northern States Power Company**  
**Demand Charge Detail Supporting Worksheet**

***NNG Firm Transportation - TF12 Base 112183***

<u>TF12B Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	104,117	104,117	Contract
times Total Rate	\$10.230	\$5.683	See detail below
times Month/Year	5	7	
Annual Total	\$5,325,584.55	\$4,141,878.38	

	Rate	Rate	
<u>Cost Components</u>	Nov-Mar	Apr-Oct	<u>Source</u>
	(\$/Dth)	(\$/Dth)	
Base Tariff Rate - TF12	\$10.230	\$5.683	see Note 1

***NNG Firm Transportation - TF12 Variable 112183***

<u>TF12V Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	0	0	Contract
times Total Rate	\$13.866	\$5.683	See detail below
times Month/Year	5	7	
Annual Total	\$0.00	\$0.00	

	Rate	Rate	
<u>Cost Components</u>	Nov-Mar	Apr-Oct	<u>Source</u>
	(\$/Dth)	(\$/Dth)	
Base Tariff Rate - TF12V	\$13.866	\$5.683	see Note 1

***NNG Firm Transportation - TF5 112183***

<u>TF5 Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	62,415	Contract
times Total Rate	\$15.153	See detail below
times Month/Year	5	
Annual Total	\$4,728,872.48	

	Rate	
<u>Cost Components</u>	Nov-Mar	<u>Source</u>
	(\$/Dth)	
Base Tariff Rate - TF5	\$15.153	see Note 1

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Purchased Gas Adjustment, November 2018  
Northern States Power Company  
Demand Charge Detail Supporting Worksheet

<b>NNG Firm Transportation - TF12 Base 112182</b>					
TF12B Annual Dollars	Cedar/Rosemount	Lake Elmo	Hugo		
<u>Discount Rate</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>	
Volume (Dth)	0	0	18,674	Contract	
times Discounted Rate	\$3.952	\$4.560	\$4.104	Contract	
times Month/Year	12	12	12	Contract	
Annual Total	\$0.00	\$0.00	\$919,657.15		\$919,657.15
TF12B Annual Dollars	Firm Transport	Firm Transport	Firm Transport		
<u>Full Rate (No Discount)</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>		
Volume (Dth)	0	0	18,674		
Annual Total	\$0.00	\$0.00	\$1,698,045.49		\$1,698,045.49
TF12B Annual Savings					\$778,388.34

  

<b>NNG Firm Transportation - TF12 Variable 112182</b>					
TF12V Annual Dollars	Cedar/Rosemount	Lake Elmo	Hugo		
<u>Discount Rate</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>	
Volume (Dth)	31,801	32,608	11,444	Contract	
times Discounted Rate	\$3.952	\$4.560	\$4.104	Contract	
times Month/Year	12	12	12	Contract	
Annual Total	\$1,508,130.62	\$1,784,309.76	\$563,594.11		\$3,856,034.50
TF12V Annual Dollars	Firm Transport	Firm Transport	Firm Transport		
<u>Full Rate (No Discount)</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>		
Volume (Dth)	31,801	32,608	11,444		
Annual Total	\$3,469,838.91	\$3,557,891.49	\$1,248,666.28		\$8,276,396.68
TF12V Annual Savings					\$4,420,362.19

  

<b>NNG Firm Transportation - TF5 112182</b>					
TF5 Annual Dollars	Cedar/Rosemount	Lake Elmo	Hugo		
<u>Discount Rate</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>	
Volume (Dth)	13,233	15,338	1,028	Contract	
times Discounted Rate	\$3.952	\$4.560	\$4.104	Contract	
times Month/Year	5	5	5	Contract	
Annual Total	\$261,484.08	\$349,706.40	\$21,094.56		\$632,285.04
TF5 Annual Dollars	Firm Transport	Firm Transport	Firm Transport		
<u>Full Rate (No Discount)</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>		
Volume (Dth)	13,233	15,338	1,028		
times Total Rate	\$15.153	\$15.153	\$15.153		
times Month/Year	5	5	5		
Annual Total	\$1,002,598.25	\$1,162,083.57	\$77,886.42		\$2,242,568.24
TF5 Annual Savings					\$1,610,283.20

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Purchased Gas Adjustment, November 2018  
Northern States Power Company  
Demand Charge Detail Supporting Worksheet

<b>NNG Firm Transportation - TFX 112185</b>				
TFX Annual Dollars	Cedar/Rosemount	Lake Elmo	Hugo	
<u>Discount Rate</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	48,576	2,270	8,546	Contract
times Discounted Rate	\$3.952	\$4.560	\$4.104	Contract
times Month/Year	5	5	5	Contract
Annual Total	\$959,861.76	\$51,756.00	\$175,363.92	\$1,186,981.68
TFX Annual Dollars	Firm Transport	Firm Transport	Firm Transport	
<u>Full Rate (No Discount)</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	
Volume (Dth)	48,576	2,270	8,546	
times Total Rate	\$15.153	\$15.153	\$15.153	
times Month/Year	5	5	5	
Annual Total	\$3,680,360.64	\$171,986.55	\$647,487.69	\$4,499,834.88
TFX Annual Savings				\$3,312,853.20

<b>NNG Firm Transportation - TFX 112185</b>				
TFX Annual Dollars	Cedar/Rosemount	Hugo		
<u>Discount Rate</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>	<u>Source</u>
Volume (Dth)	1,680	7,701	3,376	Contract
times Discounted Rate	\$4.256	\$4.104	\$4.104	Contract
times Month/Year	12	5	2	Contract
Annual Total	\$85,800.96	\$158,024.52	\$27,710.21	\$271,535.69
TFX Annual Dollars	Firm Transport	Firm Transport	Firm Transport	
<u>Full Rate (No Discount)</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	
Volume (Dth)	1,680	7,701	3,376	
Annual Total	\$194,117.28	\$218,823.92	\$38,371.62	\$451,312.81
TFX Annual Savings				\$179,777.12

<b>NNG Firm Transportation - TFX 112185 Growth Option</b>				
TFX Annual Dollars	Hugo	Lake Elmo	Lake Elmo	
<u>Discount Rate</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	10,000	16,666	16,666	Contract
times Discounted Rate	\$3.344	\$6.103	\$4.500	Contract
times Month/Year	12	5	7	Contract
Annual Total	\$401,280.00	\$508,579.66	\$524,979.00	\$1,434,838.66
TFX Annual Dollars	Firm Transport	Firm Transport		
<u>Full Rate (No Discount)</u>	<u>Value</u>	<u>Value</u>		
Volume (Dth)	10,000	16,666		
Annual Total	\$1,155,460.00	\$1,925,689.64	\$3,081,149.64	
TFX Annual Savings				\$1,646,310.98

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**Purchased Gas Adjustment, November 2018**  
**Northern States Power Company**  
**Demand Charge Detail Supporting Worksheet**

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**NNG Firm Transportation - TFX 112186**

<u>TFX Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	57,491	35,739	16,436	Contract
times Total Rate	\$15.153	\$5.683	\$5.683	See Detail Below
times Month/Year	<u>5</u>	<u>5</u>	<u>2</u>	Contract
Annual Total	\$4,355,805.62	\$1,015,523.69	\$186,811.58	\$5,558,140.88

  

	Rate	Rate	
	Nov-Mar	Apr-Oct	
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>
Base Tariff Rate - TFX	\$15.153	\$5.683	see Note 2

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**NNG Firm Transportation - TFX 112184**

<u>TFX Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Discount Rate	25,000	Contract
Volume (Dth)	\$12.500	Contract
times Discounted Rate	<u>5</u>	Contract
times Month/Year	<u>5</u>	Contract
Annual Total	\$1,562,500.00	

  

<u>TFX Annual Dollars</u>	<u>Firm Transport</u>	<u>Value</u>
Full Rate (No Discount)		25,000
Volume (Dth)		\$15.153
times Total Rate		<u>5</u>
times Month/Year		<u>5</u>
Annual Total	\$1,894,125.00	
TFX Annual Savings		\$331,625.00

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**NNG Firm Transportation - TFX 111739**

<u>TFX12 Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	28,500		Contract
times Total Rate	\$15.153		See detail below
times Month/Year	<u>5</u>		
Annual Total	\$2,159,302.50	\$0.00	

  

	Rate	Rate	
	Nov-Mar	Apr-Oct	
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>
Base Tariff Rate - TFX	\$15.153	\$5.683	see Note 2

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**NNG Firm Transportation - TFX 122067**

<u>TFX12 Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	10,291	10,291	Contract
times Total Rate	\$9.357	\$4.000	See detail below
times Month/Year	<u>5</u>	<u>7</u>	
Annual Total	\$481,454.14	\$288,148.00	

  

	Rate	Rate
	Nov-Mar	Apr-Oct
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>
Discount Rate - TFX	\$9.357	\$4.000

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**Purchased Gas Adjustment, November 2018**  
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**Demand Charge Detail Supporting Worksheet**

**NNG Firm Transportation - TFX 122068**

<u>TFX12 Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	8,875	8,875	Contract
times Total Rate	\$15.153	\$5.683	See detail below
times Month/Year	5	7	
<b>Annual Total</b>	<b>\$672,414.38</b>	<b>\$353,056.38</b>	
	<u>Rate</u>	<u>Rate</u>	
	Nov-Mar	Apr-Oct	
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>
Base Tariff Rate - TFX	\$15.153	\$5.683	see Note 2

**VGT Firm Transportation - FTA AF0156**

<u>FT-A Annual Dollars</u>	<u>Value</u>	<u>Source</u>	
Volume (Dth)	72,213	Contract	
times Total Rate	\$5.3593	See detail below	
times Month/Year	12		
<b>Annual Total</b>	<b>\$4,644,133.57</b>		
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate: Cat 3; Zone 1-2	\$5.3593	See Note 3	> 5 Years

**VGT Firm Transportation - FTA AF0044**

<u>FT-A Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	4,239	29,002	Contract
times Total Rate	\$4.3706	\$4.3706	See detail below
times Month/Year	5	12	
<b>Annual Total</b>	<b>\$92,634.87</b>	<b>\$1,521,073.69</b>	
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate: Cat 3 FTA Zone 1-1	\$4.3706	See Note 3	> 5 Years

**VGT Firm Transportation - FTA AF0103**

<u>FT-A Annual Dollars</u>	<u>Value</u>	<u>Source</u>	
Volume (Dth)	10,000	Contract	
times Total Rate	\$4.3706	See detail below	
times Month/Year	12		
<b>Annual Total</b>	<b>\$524,472.00</b>		
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate: Cat 3 FT-A Zone 1-1	\$4.3706	See Note 3	> 5 Years

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**Purchased Gas Adjustment, November 2018**  
**Northern States Power Company**  
**Demand Charge Detail Supporting Worksheet**

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**VGT Firm Transportation AF0037**

<u>FT-A Annual Dollars</u>	<u>Value</u>	<u>Source</u>	
Volume (Dth)	15,600	Contract	
times Total Rate	\$5.3593	See detail below	
<u>times Month/Year</u>	<u>12</u>		
Annual Total	\$1,003,260.96		
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate: Cat 3; Zone 1-2	\$5.3593	See Note 3	> 5 Years

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**VGT Firm Transportation AF0116**

<u>FT-A Annual Dollars</u>	<u>Value</u>	<u>Source</u>	
Volume (Dth)	1,903	Contract	
times Total Rate	\$4.3706	See detail below	
<u>times Month/Year</u>	<u>12</u>		
Annual Total	\$99,807.02		
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate: Cat 3; Zone 1-1	\$4.3706	See Note 3	> 5 Years

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**VGT Firm Transportation AF0218**

<u>FT-A Annual Dollars</u>	<u>Value</u>	<u>Source</u>	
Volume (Dth)	15,000	Contract	
times Total Rate	\$5.3593	See detail below	
<u>times Month/Year</u>	<u>12</u>		
Annual Total	\$964,674.00		
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate: Cat 3; Zone 1-1	\$5.3593	See Note 3	> 5 Years

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**VGT Firm Transportation AF0329**

<u>FT-A Annual Dollars</u>	<u>Value</u>	<u>Source</u>	
Volume (Dth)	20,200	Contract	
times Total Rate	\$4.3706	See detail below	
<u>times Month/Year</u>	<u>12</u>		
Annual Total	\$1,059,433.44		
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate: Cat 3; Zone 1-1	\$4.3706	See Note 3	> 5 Years

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**Purchased Gas Adjustment, November 2018**  
**Northern States Power Company**  
**Demand Charge Detail Supporting Worksheet**

**ANR Firm Transportation - FTS 11492**

<u>FTS-1 Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	66,500	Contract
times Total Rate	\$5.366	Contract
<u>times Month/Year</u>	<u>12</u>	
Annual Total	\$4,282,068.00	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Negotiated Rate: ML-7 to ML-7	\$5.366	Contract

**ANR Firm Transportation - FTS 106209**

<u>FTS-1 Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>
Volume (Dth)	4,829	Contract	0
times Total Rate	\$9.130	see Note 4/Contract	See detail below
<u>times Month/Year</u>	<u>5</u>	<u>7</u>	
Annual Total	\$220,443.85	#VALUE!	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate: SW to ML-7	\$9.130	see Note 4/Contract	see Note 4/Contract

**ANR Firm Transportation - FTS 106211**

<u>FTS-1 Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	15,171	5,448	Contract
times Total Rate	\$5.729	\$5.729	See detail below
<u>times Month/Year</u>	<u>5</u>	<u>7</u>	
Annual Total	\$434,573.30	\$218,481.14	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate: ML-7 to ML-7	\$5.729	See Note 4

**GLT Firm Transportation - FT18394**

<u>FT Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	3,509	4,475	Contract
times Rate	\$8.353	\$8.353	See detail below
<u>times Month/Year</u>	<u>5</u>	<u>7</u>	
Annual Total	\$146,553.39	\$261,657.73	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Resv Fee: Western to Eastern Zone	\$8.353	see Note 6

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**Purchased Gas Adjustment, November 2018**  
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**Demand Charge Detail Supporting Worksheet**

**GLT Firm Transportation - FT18071**

<u>FT Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	9,248	Contract
times Rate	\$8.353	See detail below
times Month/Year	5	
<u>Annual Total</u>	<u>\$386,242.72</u>	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Resv Fee: Western to Eastern Zone	\$8.353	see Note 6

**GLT Firm Transportation - FT18130**

<u>FT Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	895	Contract
times Rate	\$8.353	See detail below
times Month/Year	7	
<u>Annual Total</u>	<u>\$52,331.55</u>	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Resv Fee: Western to Eastern Zone	\$8.353	see Note 6

**WBI Firm Transportation - FT-1097**

<u>X-13 Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	8,000	Contract
times Rate	\$9.2100	See detail below
times Month/Year	12	
<u>Annual Total</u>	<u>\$884,160.00</u>	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate	\$9.21000	see Note 7

**WBI Firm Transportation - FT1125**

<u>FT-1 Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	461	Contract
times Rate	\$9.2100	See detail below
times Month/Year	12	
<u>Annual Total</u>	<u>\$50,949.72</u>	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate	\$9.21000	see Note 7

**NOTES:**

- [1] NNG Sixth Revised Volume No. 1, Seventh Revised Sheet No. 50, Effective April 1, 2014
- [2] NNG Sixth Revised Volume No. 1, Seventh Revised Sheet No. 51, Effective April 1, 2014
- [3] VGT Volume No. 1, Part 5.0 Statement of Rates, Effective January 1, 2015
- [4] ANR Third Revised Volume No. 1, Part 4.3 Statement of Rates, Effective August 1, 2016 subject to Refund (R)
- [5] GLT Third Revised Volume No. 1, Part 4.1 Statement of Rates, Effective August 1, 2011
- [6] WBI Third Revised Volume No. 1, Eleventh Revised Sheet No. 12, Effective October 1, 2014

November-18  
Northern States Power Company

WACOG Worksheet

<b>SUMMARY INFORMATION</b>					
	Firm	Interruptible	Combined	High	Low
NNG	\$3.4785	\$3.6969	\$3.5486	\$3.5615	\$3.2650
VGT	\$3.2394	\$3.5434	\$3.3588	\$3.2507	\$3.2356
WBI	\$3.2471	---	\$3.2471	\$3.2471	\$3.2471
ANR	\$3.0791		\$3.0791	\$3.1348	\$3.0193
SYSTEM	---	---	\$3.5539	\$3.5615	\$3.0193

(1)	(2)	(3)	(4)	(5)	(6)
Commod. Supplier	Commodity Rate \$/Mcf	Reservation Charges \$/Mcf	Commodity Volumes Mcf	(2) x (4) Total Commodity Cost \$	[(2) + (3)] x (4) Total Cost \$

**NNG Firm**

**[PROTECTED DATA BEGINS]**

1	\$3.4526	Not included			
2	\$3.4526	Not included			
3	\$3.4551	Not included			
		Not included			
		Not included			
4	\$3.4171	Not included			
		Not included			
5	\$3.5387	Not included			
		Not included			
		Not included			
6	\$3.5387	Not included			
7	\$3.5590	Not included			
8	\$3.5615	Not included			
9	\$3.5489	Not included			
10	\$3.5438	Not included			
11	\$3.5083	Not included			
		Not included			
12	\$3.2650	Not included			
		Not included			

Subtotal #DIV/0!

**NNG Interruptible**

		Not included			
		Not included			
	\$3.72	Not included			
	\$3.63	Not included			

ANR Storage  
FDD Storage  
Vent Spot Pur  
Demarc Spot Pur

Subtotal #DIV/0!

**VGT Firm**

13	\$3.2507	Not included			
14	\$3.2356	Not included			

Subtotal #DIV/0!

**VGT Interruptible**

	\$3.54	Not included			
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Emerson Spot Pur

Subtotal #DIV/0!

**WBI Firm**

15	\$3.2471	Not included			
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Subtotal #DIV/0!

**PROTECTED DATA ENDS]**

Nov-18  
Northern States Power Company

WACOG Worksheet

**WBI Interruptible**

[PROTECTED DATA BEGINS]

	\$0.0000	Not included			
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Subtotal

**ANR Firm**

<b>16</b>	\$3.1348	Not included			
<b>17</b>	\$3.0193	Not included			

Subtotal #DIV/0!

**NNG Other**

SMS	\$0.0208	Not included			
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Subtotal

**NSP Peakshaving**

LNG Boiloff	\$3.4580	Not included			
LNG	\$3.4580	Not included			
LPG	\$10.1528	Not included			

Subtotal #DIV/0!

PROTECTED DATA ENDS]

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
				(2) x (4)	[(2) + (3)] x (4)	(2) - [(8) + (9)]		
	Storage Commodity Rate	Storage Reservation Charges	Storage Volume	Storage Commodity Cost	Total Cost	Gas Cost	Inject. Charge	Withdraw Charge
Storage Type	\$/Mcf	\$/Mcf	Mcf	\$	\$	\$/Mcf	\$/Mcf	\$/Mcf

**STORAGE Firm**

[PROTECTED DATA BEGINS]

	\$2.5500	Not included						
	\$2.5600	Not included						
	\$2.6400	Not included						
Balancing Demand		Not included						
Storage Demand		Not included						

Subtotal #DIV/0!

PROTECTED DATA ENDS]

(1)	(2)	(3)	(4)	(5)	(6)
				(2) x (4)	[(2) + (3)] x (4)
	Commodity Rate	Reservation Charges	Commodity Volumes	Total Commodity Cost	Total Cost
Commod. Supplier	\$/Mcf	\$/Mcf	Mcf	\$	\$

**Hedging Adjustment/Opportunity Sales**

[PROTECTED DATA BEGINS]

Hedging Adj.	\$0.0000	Not included			
Opportunity Sales		Not included			

Subtotal #DIV/0!

PROTECTED DATA ENDS]

**TOTAL**

ALL	\$3.5539	Not included	8,983,586	\$31,926,468	\$31,926,468
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RATE SCHEDULES FTS-1, FTS-4, FTS-4L  
 MATRIX OF BASE TARIFF TRANSMISSION RATES PER DTH BY ROUTE  
 EXCLUSIVE OF ADDITIONAL CHARGES OR SURCHARGES

RECEIVED FROM	DELIVERED TO	SOUTHEAST			SOUTHWEST			NORTHERN
		S.E. Area (SE)	Southern Segment (ML-2)	Central Segment (ML-3)	S.W. Area (SW)	Southern Segment (ML-5)	Central Segment (ML-6)	Segment (ML-7)
SOUTHEAST AREA (SE)	- Res	\$ 2.3590	\$ 8.7620	\$11.1210	\$19.8830	\$17.1870	\$15.1650	\$13.1430
	- Cmd	0.0027	0.0142	0.0169	0.0303	0.0236	0.0216	0.0189
	- MIN	0.0027	0.0142	0.0169	0.0303	0.0236	0.0216	0.0189
	- Ovrn	0.0802	0.3022	0.3824	0.6840	0.5887	0.5202	0.4509
SE - Southern (ML-2)	- Res	\$ 8.7620	\$ 6.4030	\$ 8.7620	\$17.5240	\$14.8280	\$12.8060	\$10.7840
	- Cmd	0.0142	0.0115	0.0142	0.0276	0.0209	0.0189	0.0162
	- MIN	0.0142	0.0115	0.0142	0.0276	0.0209	0.0189	0.0162
	- Ovrn	0.3022	0.2220	0.3022	0.6038	0.5083	0.4399	0.3707
SE - Central (ML-3)	- Res	\$11.1210	\$ 8.7620	\$ 6.0660	\$14.8280	\$12.1320	\$10.1100	\$ 8.0880
	- Cmd	0.0169	0.0142	0.0108	0.0243	0.0175	0.0155	0.0128
	- MIN	0.0169	0.0142	0.0108	0.0243	0.0175	0.0155	0.0128
	- Ovrn	0.3824	0.3022	0.2102	0.5117	0.4164	0.3479	0.2788
SOUTHWEST AREA (SW)	- Res	\$19.8830	\$17.5240	\$14.8280	\$ 2.6960	\$ 8.4250	\$10.4470	\$12.4690
	- Cmd	0.0303	0.0276	0.0243	0.0067	0.0169	0.0195	0.0216
	- MIN	0.0303	0.0276	0.0243	0.0067	0.0169	0.0195	0.0216
	- Ovrn	0.6840	0.6038	0.5117	0.0952	0.2939	0.3630	0.4315
SW - Southern (ML-5)	- Res	\$17.1870	\$14.8280	\$12.1320	\$ 8.4250	\$ 5.7290	\$ 7.7510	\$ 9.7730
	- Cmd	0.0236	0.0209	0.0175	0.0169	0.0101	0.0128	0.0148
	- MIN	0.0236	0.0209	0.0175	0.0169	0.0101	0.0128	0.0148
	- Ovrn	0.5887	0.5083	0.4164	0.2939	0.1984	0.2676	0.3362
SW - Central (ML-6)	- Res	\$15.1650	\$12.8060	\$10.1100	\$10.4470	\$ 7.7510	\$ 5.7290	\$ 7.7510
	- Cmd	0.0216	0.0189	0.0155	0.0195	0.0128	0.0108	0.0128
	- MIN	0.0216	0.0189	0.0155	0.0195	0.0128	0.0108	0.0128
	- Ovrn	0.5202	0.4399	0.3479	0.3630	0.2676	0.1991	0.2676
NORTHERN (ML-7)	- Res	\$13.1430	\$10.7840	\$ 8.0880	\$12.4690	\$ 9.7730	\$ 7.7510	\$ 5.7290
	- Cmd	0.0189	0.0162	0.0128	0.0216	0.0148	0.0128	0.0101
	- MIN	0.0189	0.0162	0.0128	0.0216	0.0148	0.0128	0.0101
	- Ovrn	0.4509	0.3707	0.2788	0.4315	0.3362	0.2676	0.1984

General Notes:

All rates shown combine area and segment rates for each route, utilizing the transmission rates set forth in Section 4.12 and represent maximum rates unless designated as minimum firm service rates (MIN).

RATE SCHEDULES FSS & DDS  
 STATEMENT OF RATES FOR STORAGE OF NATURAL GAS

	Maximum Rate per Dth	Minimum Rate per Dth
	-----	-----
RATE SCHEDULE FSS 1/		
-----		
With Ratchets and Seasonal Entitlements		
-----		
1. Reservation Rate		
a. Deliverability Rate	\$ 2.04	\$ 0
b. Capacity Rate	\$ 0.4000	\$ 0
2. Commodity Rate		
Injection/Withdrawal	\$ 0.0126	\$ 0.0126
3. Overrun Service Rate	2/	\$ 0.0126
With Ratchets and Flexible Entitlements		
-----		
1. Reservation Rate		
a. Deliverability Rate	\$ 2.45	\$ 0
b. Capacity Rate	\$ 0.4000	\$ 0
2. Commodity Rate		
Injection/Withdrawal	\$ 0.0126	\$ 0.0126
3. Overrun Service Rate	2/	\$ 0.0126
Without Ratchets and Seasonal Entitlements		
-----		
1. Reservation Rate		
a. Deliverability Rate	\$ 2.60	\$ 0
b. Capacity Rate	\$ 0.4000	\$ 0
2. Commodity Rate		
Injection/Withdrawal	\$ 0.0126	\$ 0.0126
3. Overrun Service Rate	2/	\$ 0.0126
Without Ratchets and Flexible Entitlements		
-----		
1. Reservation Rate		
a. Deliverability Rate	\$ 3.00	\$ 0
b. Capacity Rate	\$ 0.4000	\$ 0
2. Commodity Rate		
Injection/Withdrawal	\$ 0.0126	\$ 0.0126
3. Overrun Service Rate	2/	\$ 0.0126

STATEMENT OF SURCHARGES

General Terms and Conditions Section	Particulars	Maximum Rate Per Dth	Minimum Rate Per Dth
6.15	Cashout Price Surcharge applicable to Rate Schedules ETS, STS, FTS-1, FTS-2, FTS-3, FTS-4, FTS-4L, ITS, ITS-3, PTS-1, PTS-2 and PTS-3	\$0.0000	\$0.0000
	Cashout Price Negative Surcharge applicable to Rate Schedules ETS, STS, FTS-1, FTS-2, FTS-3, FTS-4, FTS-4L, ITS, ITS-3, PTS-1, PTS-2 and PTS-3	\$0.0000	\$0.0000
6.24	Annual Charge Adjustment applicable to Rate Schedules ETS, STS, FTS-1, ITS FTS-2, FTS-3, FTS-4, FTS-4L, and ITS-3 1/	2/	2/

1/ Refer to listed Section of General Terms and Conditions for applicability to Rate Schedules FSS, DDS and MBS.

2/ The currently effective ACA unit charge as published on the Commission's website ([www.ferc.gov](http://www.ferc.gov)) is incorporated herein by reference.

4.17 RESERVED FOR FUTURE USE

STATEMENT OF RATES FOR STORAGE OF NATURAL GAS

RATE SCHEDULE FS -----	Maximum Rate per Dth -----	Minimum Rate per Dth -----
1. Reservation Rate		
a. Deliverability - Monthly	\$ 1.09240	\$ 0
b. Capacity - Monthly	\$ 0.01325	\$ 0
c. Deliverability - Daily (3)(4)	\$ 0.03591	\$ 0
d. Capacity - Daily (3)(4)	\$ 0.00044	\$ 0
2. Injection/Withdrawal Commodity Rate	\$ 0.03230	\$ 0.03230
3. Overrun Service Rate (1)	\$ 0.05174	\$ 0.03230
RATE SCHEDULE IS -----	Maximum Rate per Dth -----	Minimum Rate per Dth -----
1. Commodity Rate	\$ 0.05174	\$ 0.03230
SURCHARGE APPLICABLE TO FS AND IS SERVICE (2) -----	Maximum Rate per Dth -----	Minimum Rate per Dth -----
1. ACA	(5)	(5)

Rate Schedules FS and IS  
-----

Seller's Injection Use	1.3 %
Seller's Withdrawal Use	0.2 %

- (1) See Section 5.1.4.2 of Rate Schedule FS for definition.  
 (2) See Section 5.1.5 of Rate Schedule FS and Section 5.2.5 of Rate Schedule IS for applicability.  
 (3) Rates applicable for Volumetric Rate Capacity Release.  
 (4) See Section 6.1 paragraph 9 of the General Terms and Conditions of this Tariff.  
 (5) The currently effective ACA unit charge as published on the Commission's website ([www.ferc.gov](http://www.ferc.gov)) is incorporated herein by reference.

GREAT LAKES GAS TRANSMISSION LIMITED PARTNERSHIP  
 Open Access Rates  
 Firm Transportation Service  
 Rate Schedule FT 6/ 7/

	Western Zone 1/ 2/ 3/ Deliveries  (Rates per Dth)	Central Zone 1/ 2/ 3/ Deliveries  (Rates per Dth)	Eastern Zone 1/ 2/ 3/ Deliveries  (Rates per Dth)
Receipts in Western Zone -			
Reservation Fee	\$3,181	\$5,298	\$9,456
Utilization Fee	0,00326	0,00616	0,01080
Max. Volumetric Rate at 100% L.F. 4/ 5/	0,10458	0,17418	0,31088
Receipts in Central Zone -			
Reservation Fee	\$5,298	\$2,733	\$6,891
Utilization Fee	0,00616	0,00290	0,00754
Max. Volumetric Rate at 100% L.F. 4/ 5/	0,17418	0,08985	0,22655
Receipts in Eastern Zone -			
Reservation Fee	\$9,456	\$6,891	\$4,774
Utilization Fee	0,01080	0,00754	0,00464
Max. Volumetric Rate at 100% L.F. 4/ 5/	0,31088	0,22655	0,15695

Limited Firm Transportation Service  
 Rate Schedule LFT 1/ 2/ 3/ 4/ 5/ 6/ 7/

The rates shown above for Service under Rate Schedule FT shall also be applicable to Service under Rate Schedule LFT except that the maximum Reservation Fee shall be adjusted to reflect the appropriate number of Days that Service shall be available utilizing the following formula, rounded to 3 decimal places:  $LFT = FT \times ((TD - UD)/TD)$  where:

- LFT = LFT Reservation Fee
- FT = Applicable FT Reservation Fee
- TD = Number of Days during Agreement Term
- UD = Number of Unavailable Days

GREAT LAKES GAS TRANSMISSION LIMITED PARTNERSHIP

Open Access Rates  
Firm Transportation Service  
Rate Schedule FT

Seasonal Peak Rates 4 Months Nov '14 - Feb '15	Western Zone Deliveries	Central Zone Deliveries	Eastern Zone Deliveries
	(Rates per Dth)	(Rates per Dth)	(Rates per Dth)
<u>Receipts in Western Zone</u>			
Reservation Fee	\$5.389	\$8.975	\$16.019
Utilization Fee	\$0.00394	\$0.00745	\$0.01307
Max. Volumetric Rate at 100% L.F. 4/ 5/ IT Rate	\$0.17716 \$0.18110	\$0.29508 \$0.30253	\$0.52665 \$0.53972
<u>Receipts in Central Zone</u>			
Reservation Fee	\$8.975	\$4.630	\$11.673
Utilization Fee	\$0.00745	\$0.00351	\$0.00912
Max. Volumetric Rate at 100% L.F. 4/ 5/ IT Rate	\$0.29508 \$0.30253	\$0.15221 \$0.15572	\$0.38378 \$0.39290
<u>Receipts in Eastern Zone</u>			
Reservation Fee	\$16.019	\$11.673	\$8.088
Utilization Fee	\$0.01307	\$0.00912	\$0.00561
Max. Volumetric Rate at 100% L.F. 4/ 5/ IT Rate	\$0.52665 \$0.53972	\$0.38378 \$0.39290	\$0.26590 \$0.27151
 Seasonal Off Peak Rates 8 Months Apr '14 - Oct '14 and Mar '15	 Western Zone Deliveries	 Central Zone Deliveries	 Eastern Zone Deliveries
	(Rates per Dth)	(Rates per Dth)	(Rates per Dth)
<u>Receipts in Western Zone</u>			
Reservation Fee	\$3.079	\$5.129	\$9.154
Utilization Fee	\$0.00394	\$0.00745	\$0.01307
Max. Volumetric Rate at 100% L.F. 4/ 5/ IT Rate	\$0.10123 \$0.10517	\$0.16862 \$0.17607	\$0.30094 \$0.31401
<u>Receipts in Central Zone</u>			
Reservation Fee	\$5.129	\$2.646	\$6.670
Utilization Fee	\$0.00745	\$0.00351	\$0.00912
Max. Volumetric Rate at 100% L.F. 4/ 5/ IT Rate	\$0.16862 \$0.17607	\$0.08698 \$0.09049	\$0.21930 \$0.22842
<u>Receipts in Eastern Zone</u>			
Reservation Fee	\$9.154	\$6.670	\$4.622
Utilization Fee	\$0.01307	\$0.00912	\$0.00561
Max. Volumetric Rate at 100% L.F. 4/ 5/ IT Rate	\$0.30094 \$0.31401	\$0.21930 \$0.22842	\$0.15194 \$0.15755

RATE SCHEDULE TF

RESERVATION RATES	MARKET-TO-MARKET		FIELD-TO-FIELD/MARKET DEMARCATION
	TF12		TF5
	TF12 Base	Variable	
Base Tariff Rates 1/			TF5
Summer (Apr-Oct)	5.683	5.683	-0-
Winter (Nov-Mar)	10.230	13.866	15.153

COMMODITY RATES 2/		Market Area 3/		Field Mileage 5/		Carlton Surcharges 4/		Out-of-Balance 3/	
TF12 Base	TF12 Var.	TF5	TF5	Rate per 100 miles	Rate per 100 miles	Maximum	Minimum	Maximum	Minimum
Receipt Point	Delivery Point	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Market	Market	0.0364	0.0195			0.0175	0.0000	0.0364	0.0195
Field	Market	0.0364	0.0195	0.0122	0.0040	0.0175	0.0000		
Market	Field			0.0122	0.0040				
Field	Field			0.0122	0.0040			0.0276	0.0090

- 1/ The minimum reservation rate is equal to zero.
- 2/ The applicable Mileage Indicator Districts (MIDs) billing rate will be added to the TF rates for volumes received in the Field Area, or received in the Market Area and delivered to the Field Area. The MIDs rates shown on Sheet Nos. 59-60A represent the maximum Field Area throughput commodity rates for any transaction involving MIDs. For volumes transported through Northern's Ft. Buford compressor station, the commodity rate, fuel and unaccounted for apply only to volumes that are not ultimately confirmed for re-delivery into Northern's Market Area.
- 3/ The Maximum and Minimum rates include the Market Area Electric Compression charge of \$0.0005 where applicable. In addition, Shipper shall pay the ACA unit surcharge as posted on FERC's website at <http://www.ferc.gov>.
- 4/ Applicable to Market Area shippers as provided for in the Carlton Settlement filed in Docket No. RP96-347 dated October 20, 1996.
- 5/ Where applicable, the Field Area Electric Compression charge of \$0.0000 and the ACA unit surcharge as set forth on FERC's website at <http://www.ferc.gov> will be added to the mileage based Rates.

RATE SCHEDULES TFX and LFT

RESERVATION RATES		MARKET-TO-MARKET		FIELD-TO-FIELD					
		Apr-Oct	Nov-Mar	Rate per 100 miles		Carlton Surcharges 4/		Out-of-Balance 3/	
		Apr-Oct	Nov-Mar	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Base Tariff Rates 1/		\$5,683	\$15,153	\$5,473	\$9,853				

  

COMMODITY RATES 2/ TFX and LFT		Market Area 3/		Field Mileage 5/ Rate per 100 miles		Carlton Surcharges 4/		Out-of-Balance 3/	
Receipt Point	Delivery Point	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Market	Market	0.0364	0.0195			0.0175	0.0000	0.0364	0.0195
Field	Market	0.0364	0.0195	0.0122	0.0040	0.0175	0.0000		
Market	Field			0.0122	0.0040				
Field	Field			0.0122	0.0040			0.0276	0.0090

  

GULF COAST	Reservation 1/		Commodity 6/		Out-of-Balance 6/	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
MOPS Gathering	1.0514	0.0000	0.0000	0.0000	0.0000	0.0000
MOPS Transmission	1.5337	0.0000	0.0000	0.0000	0.0000	0.0000
Tivoli - Downstream	0.6027	0.0000	0.0000	0.0000	0.0000	0.0000
Other Gulf Coast	4.8169	0.0000	0.0000	0.0000	0.0000	0.0000

- 1/ The minimum reservation rate is equal to zero.
- 2/ The applicable Mileage Indicator Districts (MIDs) billing rate will be added to the TF rates for volumes received in the Field Area, or received in the Market Area and delivered to the Field Area. The MIDs rates shown on Sheet Nos. 59-60A represent the maximum Field Area throughput commodity rates for any transaction involving MIDs. For volumes transported through Northern's Ft. Buford compressor station, the commodity rate, fuel and unaccounted for apply only to volumes that are not ultimately confirmed for re-delivery into Northern's Market Area.
- 3/ The Maximum and Minimum rates include the Market Area Electric Compression charge of \$0.0005 where applicable. In addition, shipper shall pay the ACA unit surcharge as posted on FERC's website at <http://www.ferc.gov>.
- 4/ Applicable to Market Area shippers as provided for in the Carlton settlement filed in Docket No. RP96-347 dated October 20, 1996.
- 5/ Where applicable, the Field Area Compression charge of \$0.0000 and the ACA unit surcharge as set forth on FERC's website at <http://www.ferc.gov> will be added to the mileage based rates.
- 6/ In addition to the Maximum and Minimum rates, shipper shall pay the ACA unit surcharge as posted on FERC's website at <http://www.ferc.gov>.

RATE SCHEDULES FDD, PDD, IDD, ILD & SMS

Rate Schedule FDD

Maximum Reservation Fee	1.7140	1/
Maximum Capacity Fee	0.3567	1/
Injection Charge - Firm	0.0149	
Withdrawal Charge - Firm	0.0149	
Annual Rollover Fee	0.3567	1/

Rate Schedule PDD

Maximum Capacity Fee	0.3567	1/
Maximum Monthly Inventory Charge	0.0887	1/
Injection Charge	0.0149	
Withdrawal Charge	0.0149	
Annual Rollover Fee	0.3567	1/

Rate Schedule IDD

Maximum Monthly Inventory Charge	0.0887	1/
Injection Charge	0.0149	
Withdrawal Charge	0.0149	
Annual Rollover Fee	0.3567	1/

Rate Schedule ILD

Maximum Charge	11.7500	
Minimum Charge	0.5044	
Performance Obligation Charge	2.0000	

Rate Schedule SMS

Reservation Fee	2,1800	
Commodity Rate	0.0208	

1/ Minimum Rate is zero.

STATEMENT OF RATES  
 (Rates Per Dekatherm)

Currently Effective Term-Differentiated Rates

Rate Schedule	Base Tariff Rate
<u>Category 1 (Contract Term of Less than 3 Years)</u>	
Monthly Reservation Rates	
FT-A	
Zone 1-1 Maximum Rate	\$4.7507
Zone 1-1 Minimum Rate	\$0.0000
Zone 1-2 Maximum Rate 1/	\$5.7394
Zone 1-2 Minimum Rate	\$0.0000
Zone 2-2 Maximum Rate	\$3.3143
Zone 2-2 Minimum Rate	\$0.0000
<u>Category 2 (Contract Term of 3 Years to less than 5 Years)</u>	
Monthly Reservation Rates	
FT-A	
Zone 1-1 Maximum Rate	\$4.5607
Zone 1-1 Minimum Rate	\$0.0000
Zone 1-2 Maximum Rate	\$5.5494
Zone 1-2 Minimum Rate	\$0.0000
Zone 2-2 Maximum Rate	\$3.1243
Zone 2-2 Minimum Rate	\$0.0000
<u>Category 3 (Contract Term of 5 or more Years)</u>	
Monthly Reservation Rates	
FT-A	
Zone 1-1 Maximum Rate	\$4.3706
Zone 1-1 Minimum Rate	\$0.0000
Zone 1-2 Maximum Rate	\$5.3593
Zone 1-2 Minimum Rate	\$0.0000
Zone 2-2 Maximum Rate	\$2.9343
Zone 2-2 Minimum Rate	\$0.0000

1/ Throughout Viking's Statement of Rates and Tariff, "Zone 1-2" shall mean Transportation Service for quantities received in Zone 1 and delivered in Zone 2 or received in Zone 2 and delivered in Zone 1 whether by transport, exchange, or Displacement.

WBI Energy Transmission, Inc.  
 FERC Gas Tariff  
 Third Revised Volume No. 1

Twelfth Revised Sheet No. 12  
 Superseding  
 Eleventh Revised Sheet No. 12

NOTICE OF CURRENTLY EFFECTIVE RATES

(ALL RATES ARE STATED IN CENTS PER DEKATHERM OR EQUIVALENT DEKATHERM AS INDICATED)

RATE SCHEDULE	UNIT	BASE TARIFF RATE	TOP THROUGHPUT SURCHARGE	GAS SUPPLY REALIGNMENT SURCHARGE	BASE TARIFF RATE PLUS SURCHARGES
<b>RATE SCHEDULE FT-1</b>					
<b>RESERVATION CHARGE</b>					
<b>MAXIMUM DAILY DELIVERY QUANTITY (MDDQ)</b>					
MAXIMUM	RATE PER EQV. DKT PER MO.	921.000	N.A.	N.A.	921.000
MINIMUM	RATE PER EQV. DKT PER MO	0.000	N.A.	N.A.	0.000
<b>COMMODITY CHARGE</b>					
MAXIMUM A/B/C/	RATE PER DKT	2.842	N.A.	N.A.	2.842
MINIMUM A/B/C/	RATE PER DKT	2.842	N.A.	N.A.	2.842
<b>SCHEDULED OVERRUN CHARGE</b>					
MAXIMUM A/B/C/	RATE PER DKT	32.112	N.A.	N.A.	32.112
MINIMUM A/B/C/	RATE PER DKT	2.842	N.A.	N.A.	2.842
<b>VOLUMETRIC CAPACITY RELEASE CHARGE</b>					
MAXIMUM	RATE PER DKT	30.279	N.A.	N.A.	30.279
MINIMUM	RATE PER DKT	0.000	N.A.	N.A.	0.000

- A/ SHIPPER MUST REIMBURSE TRANSPORTER IN-KIND FOR TRANSPORTATION FUEL USE, LOST AND UNACCOUNTED FOR GAS. THE APPLICABLE PERCENTAGE IS 3.867%, CONSISTING OF 3.582% FOR THE CURRENT PERCENTAGE AND 0.285% FOR THE DEFERRAL PERCENTAGE. THIS PERCENTAGE SHALL BE APPLIED TO THE APPLICABLE QUANTITIES OF GAS TENDERED TO TRANSPORTER FOR SHIPPER'S ACCOUNT AT THE RECEIPT POINT(S) INTO TRANSPORTER'S TRANSMISSION FACILITIES.
- B/ SHIPPER MUST REIMBURSE TRANSPORTER FOR ELECTRIC POWER USED FOR TRANSPORTATION. THE APPLICABLE RATE IS 1.138 CENTS, CONSISTING OF 0.818 CENTS FOR THE CURRENT RATE AND 0.320 CENTS FOR THE DEFERRAL RATE. THIS RATE SHALL BE APPLIED TO THE APPLICABLE QUANTITIES OF GAS TENDERED TO TRANSPORTER FOR SHIPPER'S ACCOUNT AT THE RECEIPT POINT(S) INTO TRANSPORTER'S TRANSMISSION FACILITIES.
- C/ SHIPPER MUST REIMBURSE TRANSPORTER FOR THE ACA SURCHARGE. SUCH SURCHARGE SHALL BE THE ACA UNIT CHARGE SPECIFIED IN THE ANNUAL NOTICE ISSUED BY THE FERC ENTITLED "FY [YEAR] GAS ANNUAL CHARGES CORRECTION FOR ANNUAL CHARGES UNIT CHARGE."

Issued On: August 29, 2014  
 Docket Number: RP14-1219-000  
 FERC Order Date: September 23, 2014

Effective On: October 1, 2014