



414 Nicollet Mall  
Minneapolis, MN 55401

July 28, 2017

—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

Dear Executive Secretary:

Northern States Power Company, doing business as Xcel Energy, is filing this COG for gas used on and after August 1, 2017 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 a decrease to the Residential rate by \$0.00496 per therm from the July COG rate, 1.53%, or \$0.05 for a typical August North Dakota Residential customer using 10 therms. Compared to July, the Commercial/Industrial price is 1.14% lower and the Interruptible prices are 1.33-1.47% lower.

The decrease is a result of decreased commodity costs. The commodity costs decreased due to recent increases in production and benign weather pattern expectations for August. Compared to last August, prices are 1% higher for Residential and 3-4% lower for Interruptible.

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

<u>Customer Class:</u>	<u>\$/therm</u>
Residential	\$0.31986
Commercial/Industrial	\$0.32383
Small & Large Interruptible	\$0.27961

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	\$0.31986	\$0.31986
Commercial/Industrial	Basic Service	\$30.00		\$30.00
	Commodity	\$0.10800	\$0.32383	\$0.43183
Small Interruptible	Basic Service	\$75.00		\$75.00
	Commodity	\$0.08800	\$0.27961	\$0.36761
Large Interruptible	Basic Service	\$275.00		\$275.00
	Commodity	\$0.05120	\$0.27961	\$0.33081

Units:

Customer Charge - \$ per month  
 Commodity Charge - \$ per therm

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

August 1, 2017

NATURAL GAS COST COMPONENT

	Ref	1	2	3
		Prior Cost	Current Adjusts	Current Cost
<b>Cost Summary</b>				
Annual Demand	(a)	0.04336	-0.00002	0.04334
<u>Commodity</u>				
Residential	(b)	0.27495	-0.00494	0.27001
C & I	(b)	0.27495	-0.00494	0.27001
Sm Interruptible	(b)	0.27495	-0.00494	0.27001
Large Interruptible	(b)	0.27495	-0.00494	0.27001

BILLING COST OF GAS BY CLASS (From Column 3)

<b>Class Summary</b>	Residential	C&I	Small Interruptible	Large Interruptible
Annual Demand	0.04334	0.04334	N / A	N / A
Commodity	0.27001	0.27001	0.27001	0.27001
SUBTOTAL	0.31335	0.31335	0.27001	0.27001
TRUE-UP	0.00651	0.01048	0.00960	0.00960
<b>TOTAL COG</b>	<b>0.31986</b>	<b>0.32383</b>	<b>0.27961</b>	<b>0.27961</b>

**DERIVATION OF CURRENT COSTS - NORTH DAKOTA**

August 1, 2017

<u>Demand Cost (Residential and Commercial Firm)</u>	<u>12-Month Cost</u>	<u>Winter Cost</u>	Total Cost
1. System Demand Detail Total	\$31,537,962	\$23,830,026	
2. <u>x North Dakota Design Day Ratio</u>	<u>12.02%</u>	<u>12.02%</u>	
3. North Dakota System Demand Allocation	\$3,790,863	\$2,864,369	
4. ND Annual / Seasonal Firm Therm Sales (Forecast)	87,464,157	65,848,999	
5. Demand Unit Cost \$/Therm	\$0.04334	\$0.00000	\$0.04334 (a)
 <b><u>Commodity Cost</u></b>			
6. NNG Annual/Best Effort/Viking/WBI/Xcel Energy Peakshaving			\$5,527,744
7. <u>x ND Portion of Monthly Retail Sales</u>			<u>13.24%</u>
8. ND Portion of Monthly Commodity Costs			\$731,873
9. ND Budgeted Calendar Month Retail Therm Sales			2,710,582
10. Commodity Unit Cost \$/Therm (8 / 9)			\$0.27001 (b)
11. Hedging Cost per Therm (informational)	\$0.00000		
 <b><u>Total Gas Cost per Therm</u></b>			
12. Residential/Commercial & Industrial			<b>\$0.31335</b> (a) + (b)
13. Small and Large Interruptible Commodity			<b>\$0.27001</b> (b)

Northern States Power Company

RETAIL CALENDAR-MONTH BUDGETED SALES FORECAST - DEKATHERMS

	Current	2017	2017	2017	2017	2017	2017	2017	2017	2016	2016	2016	2016	
<u>MN Cal Mo Dkt Sales</u>	<u>Month</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Annual</u>
MN Total	1,775,766	12,168,379	10,297,870	8,739,463	4,952,930	3,256,069	2,088,183	1,798,774	1,775,766	2,111,020	4,009,304	7,396,911	10,821,895	69,416,563
<u>ND Cal Mo Dkt Sales</u>														
Res, Firm Commercial	162,364	1,657,320	1,360,092	1,185,963	588,468	393,908	195,714	147,015	162,364	206,857	467,190	949,567	1,431,958	8,746,416
Sm Int	28,193	85,345	82,634	74,497	58,462	41,605	28,870	31,196	28,193	30,374	46,931	63,416	82,630	654,154
Lg Int	80,502	209,599	139,194	179,422	129,541	110,565	76,206	88,495	80,502	86,178	115,184	135,362	160,340	1,510,587
I'dept	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ND Total	271,058	1,952,265	1,581,920	1,439,883	776,470	546,079	300,790	266,706	271,058	323,409	629,304	1,148,345	1,674,928	10,911,157
		1,952,265	1,581,920	1,439,883	776,470	546,079	300,790	266,706	271,058	323,409	629,304	1,148,345	1,674,928	10,911,157
NSPM Total	2,046,824	14,120,644	11,879,790	10,179,346	5,729,401	3,802,147	2,388,973	2,065,479	2,046,824	2,434,429	4,638,609	8,545,256	12,496,823	80,327,720

MN & ND Non-Trnsp	2,046,824
MN %	86.76%
ND%	13.24%

## Northern States Power Company

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

July 2016 through June 2017

	2016						2017					
<u>ND Gas Cost Recovery</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>
Residential	\$110,346	\$143,213	\$145,294	\$347,316	\$661,829	\$1,501,344	\$3,296,267	\$2,421,103	\$2,231,004	\$1,080,083	\$611,099	\$269,644
Commercial & Industrial	\$316,294	\$351,940	\$392,472	\$618,516	\$1,052,373	\$2,409,045	\$4,153,386	\$3,131,940	\$3,036,687	\$1,493,410	\$967,941	\$548,333
Small Interruptible	\$57,891	\$73,159	\$65,783	\$89,983	\$144,745	\$166,289	\$302,384	\$259,371	\$292,905	\$155,841	\$134,812	\$106,012
Large Interruptible	\$284,186	\$348,829	\$329,102	\$314,440	\$427,736	\$357,671	\$688,284	\$561,070	\$494,205	\$372,173	\$299,126	\$374,136
<b>Total</b>	<b>\$768,717</b>	<b>\$917,140</b>	<b>\$932,651</b>	<b>\$1,370,255</b>	<b>\$2,286,683</b>	<b>\$4,434,348</b>	<b>\$8,440,321</b>	<b>\$6,373,484</b>	<b>\$6,054,802</b>	<b>\$3,101,507</b>	<b>\$2,012,977</b>	<b>\$1,298,124</b>
<u>MN-Company Gas Costs</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>
Demand	\$3,025,699	\$2,893,902	\$2,900,328	\$3,039,835	\$3,027,767	\$6,818,245	\$6,164,640	\$6,853,409	\$6,822,739	\$6,762,110	\$3,043,924	\$3,012,280
Commodity	\$5,292,749	\$7,099,458	\$6,805,790	\$7,354,285	\$13,606,812	\$18,106,863	\$44,280,724	\$48,524,672	\$30,467,703	\$27,055,338	\$15,770,912	\$10,428,403
Peak Shaving	\$82,498	\$99,419	\$97,541	\$89,013	\$98,495	\$103,289	\$157,161	\$90,792	\$96,467	\$83,246	\$78,514	\$0
<b>Total Costs</b>	<b>\$8,400,946</b>	<b>\$10,092,780</b>	<b>\$9,803,659</b>	<b>\$10,483,132</b>	<b>\$16,733,074</b>	<b>\$25,028,398</b>	<b>\$50,602,525</b>	<b>\$55,468,872</b>	<b>\$37,386,909</b>	<b>\$33,900,695</b>	<b>\$18,893,350</b>	<b>\$13,440,683</b>
<u>ND Allocation Factors</u>												
Weighted Avg Demand *	0.1201	0.1201	0.1201	0.1201	0.1202	0.1202	0.1202	0.1202	0.1202	0.1202	0.1202	0.1202
Commodity (Monthly Sales)	0.1515	0.1483	0.1549	0.1526	0.1436	0.1358	0.1338	0.1335	0.1422	0.1285	0.1341	0.1455
Peak Shaving (Monthly Sales)	0.1515	0.1483	0.1549	0.1526	0.1436	0.1358	0.1338	0.1335	0.1422	0.1285	0.1341	0.1455
<u>ND Gas Costs</u>												
Demand	\$363,386	\$347,558	\$348,329	\$365,084	\$363,938	\$819,553	\$740,990	\$823,780	\$820,093	\$812,806	\$365,880	\$362,076
Commodity	\$801,851	\$1,052,850	\$1,054,217	\$1,122,264	\$1,953,938	\$2,458,912	\$5,924,761	\$6,478,044	\$4,332,507	\$3,476,611	\$2,114,879	\$1,517,333
Peak Shaving	\$12,498	\$14,744	\$15,109	\$13,583	\$14,144	\$14,027	\$21,028	\$12,121	\$13,718	\$10,697	\$10,529	\$0
<b>Total Costs</b>	<b>\$1,177,735</b>	<b>\$1,415,152</b>	<b>\$1,417,655</b>	<b>\$1,500,931</b>	<b>\$2,332,020</b>	<b>\$3,292,492</b>	<b>\$6,686,779</b>	<b>\$7,313,945</b>	<b>\$5,166,318</b>	<b>\$4,300,114</b>	<b>\$2,491,288</b>	<b>\$1,879,409</b>
Over (Under) Recovery	(\$409,018)	(\$498,012)	(\$485,004)	(\$130,676)	(\$45,337)	\$1,141,856	\$1,753,542	(\$940,461)	\$888,484	(\$1,198,607)	(\$478,311)	(\$581,285)
Deferred Tax (@40.73%)	(\$166,593)	(\$202,840)	(\$197,542)	(\$53,224)	(\$18,466)	\$465,078	\$714,218	(\$383,050)	\$361,879	(\$488,193)	(\$194,816)	(\$236,757)
Net Balance	(\$242,425)	(\$295,172)	(\$287,462)	(\$77,452)	(\$26,871)	\$676,778	\$1,039,324	(\$557,411)	\$526,605	(\$710,414)	(\$283,495)	(\$344,528)
Cumulative Net Balance	(\$242,425)	(\$537,597)	(\$825,058)	(\$902,510)	(\$929,381)	(\$252,604)	\$786,720	\$229,309	\$755,914	\$45,500	(\$237,995)	(\$582,522)
Interest Rate	0.30%	0.30%	0.29%	0.33%	0.45%	0.51%	0.51%	0.52%	0.74%	0.80%	0.89%	0.98%
Monthly Interest	\$0	(\$727)	(\$1,559)	(\$2,723)	(\$4,061)	(\$4,740)	(\$1,288)	\$4,091	\$1,697	\$6,047	\$405	(\$2,332)
Cumulative Interest		(\$727)	(\$2,286)	(\$5,009)	(\$9,070)	(\$13,810)	(\$15,098)	(\$11,007)	(\$9,310)	(\$3,263)	(\$2,858)	(\$5,190)

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

**PUBLIC DOCUMENT**  
**NOT PUBLIC (OR PRIVILEGED) DATA HAS BEEN EXCISED**

**Purchased Gas Adjustment, August 2017**  
**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>FIRM TRANSPORT</i>									
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	\$3.9502	12	\$0.00		\$0.00	
	TF12 112182 (Base) LE		0	\$4.5582	12	\$0.00		\$0.00	
	TF12 112182 (Base) Hugo		21,077	\$4.1022	12	\$1,037,544.83		\$1,037,544.83	
	TF12 112182 (Variable) C/R		31,801	\$3.9502	12	\$1,507,443.72		\$1,507,443.72	
	TF12 112182 (Variable) LE		32,608	\$4.5582	12	\$1,783,605.43		\$1,783,605.43	
	TF12 112182 (Variable) Hugo		9,041	\$4.1022	12	\$445,055.88		\$445,055.88	
	TF5 112182 C/R		13,233	\$3.9502	5	\$261,364.98			\$261,364.98
	TF5 112182 LE		15,338	\$4.5582	5	\$349,568.36			\$349,568.36
	TF5 112182 Hugo		1,028	\$4.1022	5	\$21,085.31			\$21,085.31
	TFX 112185 C/R		1,680	\$4.2542	12	\$85,764.67		\$85,764.67	
	TFX 112185 Hugo		7,701	\$4.1022	5	\$157,955.21		\$157,955.21	
	TFX 112185 C/R		48,576	\$3.9502	5	\$959,424.58			\$959,424.58
	TFX 112185 LE		2,270	\$4.5582	5	\$51,735.57			\$51,735.57
	TFX 112185 Hugo		8,546	\$4.1022	5	\$175,287.01			\$175,287.01
	TFX 112185 Hugo		10,000	\$3.3422	12	\$401,064.00		\$401,064.00	
	TFX 112185 Hugo		3,376	\$4.1022	2	\$27,698.05		\$27,698.05	
	TFX 112185 LE		13,333	\$5.6758	5	\$378,377.21			\$378,377.21
	TFX 112185 LE		13,333	\$4.8022	7	\$448,194.13			\$448,194.13
	TFX 112186		49,005	\$15.1530	5	\$3,712,863.83			\$3,712,863.83
	TFX 112186		27,253	\$5.6830	5	\$774,394.00		\$774,394.00	
	TFX 112186		7,950	\$5.6830	2	\$90,359.70		\$90,359.70	
	TFX 112184		25,000	\$12.5000	5	\$1,562,500.00			\$1,562,500.00
	TFX 122067		9,373	\$8.9294	5	\$418,476.33			\$418,476.33
	TFX 122067		9,373	\$4.3022	7	\$282,271.64		\$282,271.64	
	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	\$32,313,143.11		\$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	
	TBD		16,371	\$4.7507	6	\$466,642.26	\$9,316,698.37		\$466,642.26
ANR	FTS 114492		66,500	\$5.3660	12	\$4,282,068.00		\$4,282,068.00	
	FTS 106209		4,829	\$12.4690	12	\$722,553.61		\$722,553.61	
	FTS 106211		15,171	\$5.7290	5	\$434,573.30			\$434,573.30
	FTS 106211		4,935	\$5.7290	7	\$197,908.31	\$5,637,103.22		\$197,908.31
GLT	FT18394		3,509	\$9.4560	5	\$165,905.52			\$165,905.52
	FT18394		4,475	\$9.4560	7	\$296,209.20		\$296,209.20	
	FT18071		9,248	\$11.4420	5	\$529,078.08			\$529,078.08
	FT18130		895	\$11.4420	7	\$71,684.13	\$1,062,876.93		\$71,684.13
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
<i>Capacity Release Revenue</i>									
VGT	FTA AF0037		10,000	\$3.8520	7	(\$269,640.00)		(\$269,640.00)	
	FTA AF0307		16,371	\$1.7250	1	(\$28,239.98)	(\$297,879.98)	(\$28,239.98)	
ANR	FTS 106209		4,829	\$5.1000	1	(\$24,627.90)		(\$24,627.90)	
	FTS 106209		4,829	\$3.7200	1	(\$17,963.88)		(\$17,963.88)	
	FTS 106210		4,829	\$3.8400	1	(\$18,543.36)		(\$18,543.36)	
	FTS 106209		4,829	\$2.7900	1	(\$13,472.91)		(\$13,472.91)	
	FTS 106209		4,829	\$3.4100	1	(\$16,466.89)	(\$91,074.94)	(\$16,466.89)	
<i>Subtotal Firm Transport:</i>						\$48,875,976.44		\$31,537,961.56	\$17,338,014.88

3rd PARTY SUPPLIES

[PROTECTED DATA BEGINS

PROTECTED DATA END]

\$1,555,412.50

\$0.00

\$1,555,412.50

**PUBLIC DOCUMENT**  
**NOT PUBLIC (OR PRIVILEGED) DATA HAS BEEN EXCISED**

**Purchased Gas Adjustment, August 2017**  
**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	15,235	\$1.7820	12	\$325,785.24	\$325,785.24		\$325,785.24
		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>					<u>\$4,936,598.46</u>		<u>\$4,936,598.46</u>
<b>TOTAL MN/ND ALLOCATED DEMAND:</b>						<u>\$55,367,987.40</u>	<u>\$31,537,961.56</u>		<u>\$23,830,025.84</u>

**PUBLIC DOCUMENT**  
**NOT PUBLIC (OR PRIVILEGED) DATA HAS BEEN EXCISED**

**Purchased Gas Adjustment, August 2017**  
**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	
	<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 - 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	
	<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 - 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	
	<u>Rate</u>	
	Nov-Mar	
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>Source</u>
Base Tariff Rate - TF5	\$15.153	see Note 1

PUBLIC DOCUMENT  
NOT PUBLIC (OR PRIVILEGED) DATA HAS BEEN EXCISED

Purchased Gas Adjustment, August 2017  
Northern States Power Company  
Demand Charge Detail Supporting Worksheet

<i>NNG Firm Transportation - TF12 Base 112182</i>				
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	21,077	Contract
times Discounted Rate	\$3.950	\$4.558	\$4.102	Contract
<u>times Month/Year</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>Contract</u>
Annual Total	\$0.00	\$0.00	\$1,037,544.83	\$1,037,544.83
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	21,077	
Annual Total	\$0.00	\$0.00	\$1,916,552.69	\$1,916,552.69
TF12B Annual Savings				\$879,007.85

<i>NNG Firm Transportation - TF12 Variable 112182</i>				
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	9,041	Contract
times Discounted Rate	\$3.950	\$4.558	\$4.102	Contract
<u>times Month/Year</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>Contract</u>
Annual Total	\$1,507,443.72	\$1,783,605.43	\$445,055.88	\$3,736,105.03
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	9,041	
Annual Total	\$3,469,838.91	\$3,557,891.49	\$986,472.55	\$8,014,202.95
TF12V Annual Savings				\$4,278,097.92

<i>NNG Firm Transportation - TF5 112182</i>				
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	\$3.950	\$4.558	\$4.102	Contract
<u>times Month/Year</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>Contract</u>
Annual Total	\$261,364.98	\$349,568.36	\$21,085.31	\$632,018.65
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	
<u>times Month/Year</u>	<u>5</u>	<u>5</u>	<u>5</u>	
Annual Total	\$1,002,598.25	\$1,162,083.57	\$77,886.42	\$2,242,568.24
TF5 Annual Savings				\$1,610,549.59

PUBLIC DOCUMENT  
NOT PUBLIC (OR PRIVILEGED) DATA HAS BEEN EXCISED

Purchased Gas Adjustment, August 2017  
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	\$3.950	\$4.558	\$4.102	Contract
times Month/Year	5	5	5	Contract
Annual Total	\$959,424.58	\$51,735.57	\$175,287.01	\$1,186,447.15
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				\$3,313,387.73

<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	\$4.254	\$4.102	\$4.102	Contract
times Month/Year	12	5	2	Contract
Annual Total	\$85,764.67	\$157,955.21	\$27,698.05	\$271,417.94
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				\$179,894.87

<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	13,333	13,333	Contract
times Discounted Rate	\$3.342	\$5.676	\$4.802	Contract
times Month/Year	12	5	7	Contract
Annual Total	\$401,064.00	\$378,377.21	\$448,194.13	\$1,227,635.34
TFX Annual Dollars	Firm Transport	Firm Transport		
<u>Full Rate (No Discount)</u>	<u>Value</u>	<u>Value</u>		
Volume (Dth)	10,000	13,333		
Annual Total	\$1,155,460.00	\$1,540,574.82	\$2,696,034.82	
TFX Annual Savings				\$1,468,399.48

PUBLIC DOCUMENT  
NOT PUBLIC (OR PRIVILEGED) DATA HAS BEEN EXCISED

Purchased Gas Adjustment, August 2017  
Northern States Power Company  
Demand Charge Detail Supporting Worksheet

<b>NNG Firm Transportation - TFX 112186</b>				
<u>TFX Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	49,005	27,253	7,950	Contract
times Total Rate	\$15.153	\$5.683	\$5.683	See Detail Below
<u>times Month/Year</u>	<u>5</u>	<u>5</u>	<u>2</u>	Contract
Annual Total	\$3,712,863.83	\$774,394.00	\$90,359.70	\$4,577,617.52
	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	

<b>NNG Firm Transportation - TFX 112184</b>				
<u>TFX Annual Dollars</u>	<u>Value</u>	<u>Source</u>		
Discount Rate				
Volume (Dth)	25,000	Contract		
times Discounted Rate	\$12.500	Contract		
<u>times Month/Year</u>	<u>5</u>	Contract		
Annual Total	\$1,562,500.00			
<u>TFX Annual Dollars</u>	<u>Firm Transport</u>			
<u>Full Rate (No Discount)</u>	<u>Value</u>			
Volume (Dth)	25,000			
times Total Rate	\$15.153			
<u>times Month/Year</u>	<u>5</u>			
Annual Total	\$1,894,125.00			
TFX Annual Savings				\$331,625.00

<b>NNG Firm Transportation - TFX 111739</b>				
<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	
<u>times Month/Year</u>	<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	

<b>NNG Firm Transportation - TFX 122067</b>				
<u>TFX12 Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>	
Volume (Dth)	9,373	9,373	Contract	
times Total Rate	\$8.929	\$4.302	See detail below	
<u>times Month/Year</u>	<u>5</u>	<u>7</u>		
Annual Total	\$418,476.33	\$282,271.64		
	Rate	Rate		
	Nov-Mar	Apr-Oct		
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>		
Discount Rate - TFX	\$8.929	\$4.302		

**PUBLIC DOCUMENT**  
**NOT PUBLIC (OR PRIVILEGED) DATA HAS BEEN EXCISED**

**Purchased Gas Adjustment, August 2017**  
**Northern States Power Company**  
**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	
Annual Total	\$672,414.38	\$353,056.38	
	<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 AF0307**

<u>FT-A Annual Dollars</u>	<u>Value</u>	<u>Source</u>	
Volume (Dth)	16,371	Contract	
times Total Rate	\$4.7507	See detail below	
times Month/Year	6		
Annual Total	\$466,642.26		
	<u>Rate</u>		
	Nov-Mar		
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate - TFX	\$4.751	See Note 3	< 3 Years

**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		
Annual Total	\$4,644,133.57		
<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	
Annual Total	\$92,634.87	\$1,521,073.69	
	<u>Rate</u>		
	(\$/Dth)		
<u>Cost Components</u>	<u>(\$/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		
Annual Total	\$524,472.00		
<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

**PUBLIC DOCUMENT**  
**NOT PUBLIC (OR PRIVILEGED) DATA HAS BEEN EXCISED**

**Purchased Gas Adjustment, August 2017**  
**Northern States Power Company**  
**Demand Charge Detail Supporting Worksheet**

---

**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

---

**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

---

**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	< 1 Year

---

**PUBLIC DOCUMENT**  
**NOT PUBLIC (OR PRIVILEGED) DATA HAS BEEN EXCISED**

**Purchased Gas Adjustment, August 2017**  
**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
times Month/Year	12	
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>Source</u>
Volume (Dth)	4,829	Contract
times Total Rate	\$12.469	See detail below
times Month/Year	12	
Annual Total	\$722,553.61	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate: SW to ML-7	\$12.469	See Note 4

**ANR Firm Transportation - FTS 106211**

<u>FTS-1 Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	15,171	4,935	Contract
times Total Rate	\$5.729	\$5.729	See detail below
times Month/Year	5	7	
Annual Total	\$434,573.30	\$197,908.31	

<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	\$9.456	\$9.456	See detail below
times Month/Year	5	7	
Annual Total	\$165,905.52	\$296,209.20	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Resv Fee: Western to Eastern Zone	\$9.456	see Note 6

**PUBLIC DOCUMENT**  
**NOT PUBLIC (OR PRIVILEGED) DATA HAS BEEN EXCISED**

**Purchased Gas Adjustment, August 2017**  
**Northern States Power Company**  
**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	\$11.442	See detail below
<u>times Month/Year</u>	<u>5</u>	
Annual Total	\$529,078.08	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Resv Fee: Western to Eastern Zone	\$11.442	see Note 6

**GLT Firm Transportation - FT18130**

<u>FT Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	895	Contract
times Rate	\$11.442	See detail below
<u>times Month/Year</u>	<u>7</u>	
Annual Total	\$71,684.13	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Resv Fee: Western to Eastern Zone	\$11.442	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
<u>times Month/Year</u>	<u>12</u>	
Annual Total	\$884,160.00	

<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
<u>times Month/Year</u>	<u>12</u>	
Annual Total	\$50,949.72	

<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

August-17  
Northern States Power Company

WACOG Worksheet

<b>SUMMARY INFORMATION</b>						
	Firm	Interruptible	Combined	High	Low	
NNG	\$2.7823	\$2.7643	\$2.8124		\$2.7951	\$2.7574
VGT	\$2.6370	\$2.6412	\$2.6384		\$2.6696	\$2.5827
WBI	\$2.4824	---	\$2.4824		\$2.4824	\$2.4824
ANR	#DIV/0!		#DIV/0!		\$0.0000	\$0.0000
SYSTEM	---	---	\$2.6941		\$2.7951	\$2.4824

(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	\$2.7876	Not included			
2	\$2.7876	Not included			
3	\$2.7876	Not included			
4	\$2.7926	Not included			
0		Not included			
0		Not included			
5	\$2.7574	Not included			
0		Not included			
6	\$2.7876	Not included			
0		Not included			
7	\$2.7951	Not included			
8	\$2.7926	Not included			
9	\$2.7791	Not included			
10	\$2.7791	Not included			
0		Not included			
0		Not included			
0		Not included			
0		Not included			
0		Not included			
Subtotal	#DIV/0!				

**NNG Interruptible**

	\$2.6212	Not included				ANR Storage FDD Storage Vent Spot Pur Demarc Spot Pur
	\$2.7846	Not included				
	\$2.7865	Not included				
	\$2.7889	Not included				
Subtotal	#DIV/0!					

**VGT Firm**

12	\$2.6696	Not included			
13	\$2.5827	Not included			
14	\$2.6113	Not included			
		Not included			
Subtotal	#DIV/0!				

**VGT Interruptible**

	\$2.6412	Not included				Emerson Spot Pur
Subtotal	#DIV/0!					

**WBI Firm**

15	\$2.4824	Not included			
Subtotal	#DIV/0!				

**PROTECTED DATA ENDS]**

Aug-17  
 Northern States Power Company

WACOG Worksheet

**WBI Interruptible**

[PROTECTED DATA BEGINS]

	\$0.0000	Not included			
Subtotal					

**ANR Firm**

		Not included			
		Not included			
Subtotal #DIV/0!					

**NNG Other**

SMS	\$0.0208	Not included			
Subtotal					

**NSP Peakshaving**

LNG Boiloff	\$3.6100	Not included			
LNG	\$3.6100	Not included			
LPG	\$10.6987	Not included			
Subtotal #DIV/0!					

PROTECTED DATA ENDS]

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

**STORAGE Firm**

[PROTECTED DATA BEGINS]

	\$2.8700	Not included						
	\$2.7700	Not included						
	\$2.9000	Not included						
Balancing Demand		Not included	0					
Storage Demand		Not included	0					
Subtotal #DIV/0! 0								

PROTECTED DATA ENDS]

(1)	(2)	(3)	(4)	(5) (2) x (4) Total Commodity Cost \$	(6) [(2) + (3)] x (4) Total Cost \$
Commod. Supplier	Commodity Rate \$/Mcf	Reservation Charges \$/Mcf	Commodity Volumes 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	\$2.6941	Not included	2,046,824	\$5,514,376	\$5,514,376
-----	----------	--------------	-----------	-------------	-------------



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
			5.473
			9.853

COMMODITY RATES 2/		Market Area 3/		Field Mileage 5/		Carlton Surcharges 4/		Out-of-Balance 3/	
TF12 Base, TF12 Var., TF5 & TFF		Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Receipt Point	Delivery Point								
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		Out-of-Balance	
		Apr-Oct	Nov-Mar	Apr-Oct	Nov-Mar	Apr-Oct	Nov-Mar	Apr-Oct	Nov-Mar
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