



414 Nicollet Mall  
Minneapolis, MN 55401

January 30, 2023

—Via Electronic Filing—

Steven M. Kahl, Executive Director  
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-23-8

Dear Mr. Kahl:

Northern States Power Company, doing business as Xcel Energy, is filing this Cost of Gas (COG) for gas used on and after February 1, 2023 in North Dakota. The attached schedules show the new gas cost supporting worksheets and applicable pipeline tariff sheets. Pursuant to the North Dakota Public Service Commission's June 29, 2021 decision in Case Nos. PU-21-9 and PU-21-102, the February Event COG true-up factors will be implemented for all retail natural gas sales customer classes. On October 21, 2021, the Commission amended their June 29, 2021 Order, extending the 15-month amortization to a 24-month amortization, from July 1, 2021, through June 30, 2023. The Company provides a separate column for this special February Event true-up rates in the monthly COG filings.

The net effect of the COG is a decrease to the Residential rate by \$0.12931 per therm from the January COG rate, 13.63%, or \$16.81 for a typical February North Dakota Residential customer using 130 therms. Compared to January, the Commercial/Industrial price is 11.49% lower, and the Interruptible prices are 13.46-13.96% lower. The decrease is a result of decreased commodity costs. The commodity costs decreased due to mild weather and storage inventories being above last year and the 5-year average. Compared to last February, prices are 6-33% higher.

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

<u>Customer Class</u>	<u>\$/therm</u>
Residential	\$0.81942
Commercial/Industrial	\$0.86039
Small Interruptible	\$0.72042
Large Interruptible	\$0.72042

Please contact Hui Chen at [hui.chen@xcelenergy.com](mailto:hui.chen@xcelenergy.com) or (612) 330-6749, 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  
DIRECTOR, REGULATORY PRICING AND ANALYSIS

Enclosures

Class	Component	Distribution Charge*	Current Month COG A	2021-2022 Annual True-Up B	2021 Feb. Event True-Up C	MGP D	Total Cost of Gas E = A+B+C+D	Total Rate
Residential	Basic Service	\$22.25						\$22.25
	Commodity	\$0.00000	\$0.74445	(\$0.02828)	\$0.09318	\$0.01007	\$0.81942	\$0.81942
Commercial/Industrial	Basic Service	\$35.00						\$35.00
	Commodity	\$0.13581	\$0.74445	(\$0.02823)	\$0.13410	\$0.01007	\$0.86039	\$0.99620
Small Interruptible	Basic Service	\$100.00						\$100.00
	Commodity	\$0.11065	\$0.62253	\$0.03042	\$0.05740	\$0.01007	\$0.72042	\$0.83107
Large Interruptible	Basic Service	\$275.00						\$275.00
	Commodity	\$0.07636	\$0.62253	\$0.03042	\$0.05740	\$0.01007	\$0.72042	\$0.79678

Units:

Customer Charge - \$ per month

Commodity Charge - \$ per therm

		<u>NATURAL GAS COST COMPONENT</u>		
		<u>1</u>	<u>2</u>	<u>3</u>
<b>Cost Summary</b>	Ref	Prior Cost	Current Adjusts	Current Cost
Annual Demand	(a)	0.12192	0.00000	0.12192
<u>Commodity</u>				
Residential	(b)	0.75184	-0.12931	0.62253
C & I	(b)	0.75184	-0.12931	0.62253
Sm Interruptible	(b)	0.75184	-0.12931	0.62253
Large Interruptible	(b)	0.75184	-0.12931	0.62253

BILLING COST OF GAS BY CLASS (From Column 3)

<b>Class Summary</b>	Residential	C&I	Small Interruptible	Large Interruptible
Annual Demand	0.12192	0.12192	N / A	N / A
Commodity	0.62253	0.62253	0.62253	0.62253
SUBTOTAL	0.74445	0.74445	0.62253	0.62253
TRUE-UP	-0.02828	-0.02823	0.03042	0.03042
TRUE-UP (Feb. Weather Event)	0.09318	0.13410	0.05740	0.05740 *
MGP	0.01007	0.01007	0.01007	0.01007
TOTAL COG	0.81942	0.86039	0.72042	0.72042

\*Case Nos. PU-21-9 and PU-21-102

**DERIVATION OF CURRENT COSTS - NORTH DAKOTA**

February 1, 2023

	<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	\$44,345,057	\$41,857,981	
2. <u>x North Dakota Design Day Ratio</u>	<u>12.79%</u>	<u>12.79%</u>	
3. North Dakota System Demand Allocation	\$5,670,861	\$5,352,813	
4. ND Annual / Seasonal Firm Therm Sales (Forecast)	104,887,100	78,897,520	
5. Demand Unit Cost \$/Therm	\$0.05407	\$0.06785	\$0.12192 (a)
<b><u>Commodity Cost</u></b>			
6. NNG Annual/Best Effort/Viking/WBI/Xcel Energy Peakshaving			\$79,784,045
7. <u>x ND Portion of Monthly Retail Sales</u>			<u>13.98%</u>
8. ND Portion of Monthly Commodity Costs			\$11,153,809
9. ND Budgeted Calendar Month Retail Therm Sales			17,917,013
10. Commodity Unit Cost \$/Therm (8 / 9)			\$0.62253 (b)
11. Hedging Cost per Therm (informational)	\$0.01823		
<b><u>Total Gas Cost per Therm</u></b>			
12. Residential/Commercial & Industrial			<b>\$0.74445</b> (a) + (b)
13. Small and Large Interruptible Commodity			<b>\$0.62253</b> (b)

Northern States Power Company

RETAIL CALENDAR-MONTH BUDGETED SALES FORECAST - DEKATHERMS

<u>MN Cal Mo Dkt Sales</u>	Current Month	2023 Jan	2023 Feb	2023 Mar	2023 Apr	2023 May	2023 June	2023 July	2023 Aug	2022 Sept	2022 Oct	2022 Nov	2022 Dec	Annual
MN Total	11,024,362	13,436,778	11,024,362	9,258,151	5,173,954	2,951,119	2,039,841	1,723,646	1,798,710	2,108,456	4,492,380	7,807,404	11,596,795	73,411,595
<u>ND Cal Mo Dkt Sales</u>														
Res, Firm Commercial	1,619,513	1,971,578	1,619,513	1,389,512	709,929	398,085	233,361	183,976	203,402	257,470	612,735	1,160,927	1,748,222	10,488,710
Sm Int	49,199	68,879	49,199	57,844	56,389	31,185	26,897	22,606	25,603	26,369	41,882	50,728	61,746	519,325
Lg Int	122,990	164,463	122,990	135,378	99,980	80,642	86,165	87,926	97,343	108,770	127,524	138,134	152,465	1,401,779
Idept	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ND Total	1,791,701	2,204,919	1,791,701	1,582,734	866,298	509,912	346,422	294,508	326,348	392,609	782,141	1,349,789	1,962,432	12,409,814
NSPM Total	12,816,063	15,641,697	12,816,063	10,840,885	6,040,253	3,461,031	2,386,264	2,018,153	2,125,058	2,501,065	5,274,521	9,157,192	13,559,227	85,821,409

MN & ND Non-Trmsp	12,816,063
MN %	86.02%
ND%	13.98%

Northern States Power Company

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

July 2022 through June 2023

	2022						2023					
<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	\$362,286	\$356,685	\$426,828	\$828,006	\$1,663,915	\$4,563,634	\$0	\$0	\$0	\$0	\$0	\$0
Commercial & Industrial	\$1,129,220	\$1,080,761	\$1,320,993	\$1,816,768	\$3,053,639	\$7,091,279	\$0	\$0	\$0	\$0	\$0	\$0
Small Interruptible	\$168,182	\$160,440	\$199,551	\$196,400	\$231,727	\$366,870	\$0	\$0	\$0	\$0	\$0	\$0
Large Interruptible	\$570,987	\$562,206	\$903,274	\$629,708	\$726,108	\$874,963	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$2,230,674</b>	<b>\$2,160,092</b>	<b>\$2,850,646</b>	<b>\$3,470,883</b>	<b>\$5,675,389</b>	<b>\$12,896,747</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</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	\$3,770,443	\$3,610,765	\$3,896,849	\$4,053,642	\$4,062,081	\$9,232,924	\$0	\$0	\$0	\$0	\$0	\$0
Commodity	\$20,001,964	\$15,276,066	\$20,622,051	\$21,649,582	\$29,578,504	\$54,743,011	\$0	\$0	\$0	\$0	\$0	\$0
Peak Shaving	\$48,805	\$57,391	\$56,235	\$49,410	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total Costs</b>	<b>\$23,821,211</b>	<b>\$18,944,221</b>	<b>\$24,575,135</b>	<b>\$25,752,633</b>	<b>\$33,640,586</b>	<b>\$63,975,935</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<u>ND Allocation Factors</u>												
Weighted Avg Demand *	0.1261	0.1261	0.1261	0.1261	0.1279	0.1279	0.1279	0.1279	0.0000	0.0000	0.0000	0.0000
Commodity (Monthly Sales)	0.1426	0.1478	0.1549	0.1512	0.1532	0.1561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Peak Shaving (Monthly Sales)	0.1426	0.1478	0.1549	0.1512	0.1532	0.1561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<u>ND Gas Costs</u>												
Demand	\$475,453	\$455,317	\$491,393	\$511,164	\$519,460	\$1,180,709	\$0	\$0	\$0	\$0	\$0	\$0
Commodity	\$2,852,280	\$2,257,803	\$3,194,356	\$3,273,417	\$4,531,427	\$8,545,384	\$0	\$0	\$0	\$0	\$0	\$0
Peak Shaving	\$6,960	\$8,482	\$8,711	\$7,471	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total Costs</b>	<b>\$3,334,693</b>	<b>\$2,721,602</b>	<b>\$3,694,460</b>	<b>\$3,792,052</b>	<b>\$5,050,887</b>	<b>\$9,726,093</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
Over (Under) Recovery	(\$1,104,019)	(\$561,510)	(\$843,814)	(\$321,169)	\$624,502	\$3,170,654	\$0	\$0	\$0	\$0	\$0	\$0
Deferred Tax (@24.4%)	(\$269,381)	(\$137,008)	(\$205,891)	(\$78,365)	\$152,378	\$773,640	\$0	\$0	\$0	\$0	\$0	\$0
Net Balance	(\$834,638)	(\$424,502)	(\$637,923)	(\$242,804)	\$472,124	\$2,397,014	\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Net Balance	(\$834,638)	(\$1,259,140)	(\$1,897,063)	(\$2,139,868)	(\$1,667,744)	\$729,269	\$0	\$0	\$0	\$0	\$0	\$0
Interest Rate	2.23%	2.63%	3.13%	3.72%	4.15%	4.25%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Monthly Interest	\$0	(\$21,951)	(\$39,411)	(\$70,571)	(\$88,805)	(\$70,879)	\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Interest		(\$21,951)	(\$61,362)	(\$131,933)	(\$220,738)	(\$291,617)	(\$291,617)	(\$291,617)	(\$291,617)	(\$291,617)	(\$291,617)	(\$291,617)

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

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

**Purchased Gas Adjustment, February 2023**  
**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	\$13.1450	2	\$2,737,235.93		\$2,737,235.93	
		TF12 112183 (Base)	104,117	\$14.2157	3	\$4,440,288.11		\$4,440,288.11	
		TF12 112183 (Base)	104,117	\$7.8978	7	\$5,756,066.70		\$5,756,066.70	
		TF12 112183 (Variable)	0	\$17.8180	2	\$0.00		\$0.00	
		TF12 112183 (Variable)	0	\$19.2694	3	\$0.00		\$0.00	
		TF12 112183 (Variable)	0	\$7.8978	7	\$0.00		\$0.00	
		TF5 112183	62,415	\$19.4710	2	\$2,430,564.93			\$2,430,564.93
		TF5 112183	62,415	\$21.0570	3	\$3,942,817.97			\$3,942,817.97
		TF12 112182 (Base) C/R	0	\$5.3015	12	\$0.00		\$0.00	
		TF12 112182 (Base) LE	0	\$5.9095	12	\$0.00		\$0.00	
		TF12 112182 (Base) Hugo	20,674	\$5.4535	12	\$1,352,947.91		\$1,352,947.91	
		TF12 112182 (Variable) C/R	31,801	\$5.3015	12	\$2,023,116.02		\$2,023,116.02	
		TF12 112182 (Variable) LE	32,608	\$5.9095	12	\$2,312,363.71		\$2,312,363.71	
		TF12 112182 (Variable) Hugo	9,444	\$5.4535	12	\$618,034.25		\$618,034.25	
		TF5 112182 C/R	13,233	\$5.3015	5	\$350,773.75			\$350,773.75
		TF5 112182 LE	15,338	\$5.9095	5	\$453,199.56			\$453,199.56
		TF5 112182 Hugo	1,028	\$5.4535	5	\$28,030.99			\$28,030.99
		TFX 112185 C/R	1,680	\$5.6055	12	\$113,006.88		\$113,006.88	
		TFX 112185 C/R	3,767	\$5.9095	12	\$267,133.04		\$267,133.04	
		TFX 112185 Hugo	7,701	\$5.4535	5	\$209,987.02		\$209,987.02	
		TFX 112185 C/R	48,576	\$5.3015	5	\$1,287,628.32			\$1,287,628.32
		TFX 112185 LE	2,270	\$5.9095	5	\$67,072.83			\$67,072.83
		TFX 112185 Hugo	8,546	\$5.4535	5	\$233,028.06			\$233,028.06
		TFX 112185 Hugo	10,000	\$4.6935	12	\$563,220.00		\$563,220.00	
		TFX 112185 Hugo	3,376	\$5.4535	2	\$36,822.03		\$36,822.03	
		TFX 112185 LE	19,999	\$7.4527	5	\$745,232.74			\$745,232.74
		TFX 112185 LE	19,999	\$5.8495	7	\$818,889.05		\$818,889.05	
		TFX 112186	62,256	\$19.4710	2	\$2,424,373.15			\$2,424,373.15
		TFX 112186	25,626	\$36.9950	3	\$2,844,101.61			\$2,844,101.61
		TFX 112186	20,201	\$13.8760	7	\$1,962,163.53		\$1,962,163.53	
		TFX 112186 Disc	36,630	\$21.1678	3	\$2,326,129.54			\$2,326,129.54
		TFX 112186 Disc	20,303	\$7.9394	5	\$805,968.19		\$805,968.19	
		TFX 112186 Disc	1,000	\$7.9394	2	\$15,878.80		\$15,878.80	
		TFX 112184	25,000	\$12.5000	5	\$1,562,500.00			\$1,562,500.00
		TFX 122067	17,273	\$10.7063	5	\$924,649.60			\$924,649.60
		TFX 122067	17,273	\$5.3495	7	\$646,813.39		\$646,813.39	
		TFX 122068	9,969	\$19.4710	2	\$388,212.80			\$388,212.80
		TFX 122068	9,969	\$36.9950	3	\$1,106,409.47			\$1,106,409.47
		TFX 122068	9,969	\$13.8760	7	\$968,308.91		\$968,308.91	
		TFX 111739	28,500	\$19.4710	2	\$1,109,847.00			\$1,109,847.00
		TFX 111739	28,500	\$36.9950	3	\$3,163,072.50			\$3,163,072.50
		TFX 140626	16,255	\$19.4710	2	\$633,002.21			\$633,002.21
		TFX 140626	16,255	\$36.9950	3	\$1,804,061.18	\$53,472,951.68		\$1,804,061.18
	VGT	FTA AF0156	72,213	\$4.7580	12	\$4,123,073.45		\$4,123,073.45	
		FTA AF0044	4,239	\$3.8060	5	\$80,668.17			\$80,668.17
		FTA AF0044	32,405	\$3.8060	12	\$1,480,001.16		\$1,480,001.16	
		FTA AF0103	10,000	\$3.8060	12	\$456,720.00		\$456,720.00	
		FTA AF0037	15,600	\$4.7580	12	\$890,697.60		\$890,697.60	
		FTA AF0218	15,000	\$4.7580	12	\$856,440.00		\$856,440.00	
		FTA AF0329	20,200	\$3.8060	12	\$922,574.40		\$922,574.40	
		FTA AF0360	22,000	\$4.7580	12	\$1,256,112.00	\$10,066,286.78	\$1,256,112.00	
	ANR	FTS 114492	66,500	\$6.4738	12	\$5,166,092.40		\$5,166,092.40	
		FTS 106209	4,829	\$9.1300	12	\$529,065.24		\$529,065.24	
		FTS 106211	15,171	\$6.4738	5	\$491,070.10			\$491,070.10
		FTS 106211	5,429	\$6.4738	7	\$246,023.82			\$246,023.82
		FTS 135957	22,000	\$6.4738	12	\$1,709,083.20	\$8,141,334.76	\$1,709,083.20	
	GLT	FT18539	3,509	\$8.1860	5	\$143,623.37			\$143,623.37
		FT18539	5,370	\$8.1860	7	\$307,711.74		\$307,711.74	
		FT18129	9,248	\$8.1860	5	\$378,520.64	\$829,855.75		\$378,520.64
	WBI	FT-1482	8,000	\$9.8417	12	\$944,798.40		\$944,798.40	
		FT-1125	461	\$9.8417	12	\$54,444.01	\$999,242.41	\$54,444.01	
<b>Subtotal Firm Transport:</b>						<b>\$73,509,671.38</b>		<b>\$44,345,057.07</b>	<b>\$29,164,614.31</b>
<b>3rd PARTY SUPPLIES</b>									
<b>[PROTECTED DATA BEGINS]</b>									
						\$1,482,949.44		\$0.00	\$1,482,949.44
						<b>[PROTECTED DATA ENDS]</b>			

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

**Purchased Gas Adjustment, February 2023**  
**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	15,237	\$1.6797	12	\$307,123.07	\$307,123.07		\$307,123.07
		ANRS ANRS: R	9,248	\$1.2000	5	\$55,488.00			\$55,488.00
		ANRS ANRS: R	9,248	\$1.4160	7	\$91,666.18	\$147,154.18		\$91,666.18
		NNG FDD: R	140,230	\$2.8624	2	\$802,788.70			\$802,788.70
		FDD: R	140,230	\$4.3552	10	\$6,107,296.96			\$6,107,296.96
		FDD: R	78,050	\$2.8624	2	\$446,820.64			\$446,820.64
		FDD: R	78,050	\$4.3552	10	<u>\$3,399,233.60</u>	<u>\$10,756,139.90</u>		<u>\$3,399,233.60</u>
		<i>Subtotal Storage:</i>					\$11,210,417.15		\$11,210,417.15
<b>TOTAL MN/ND ALLOCATED DEMAND:</b>							<u>\$86,203,037.97</u>	<u>\$44,345,057.07</u>	<u>\$41,857,980.90</u>

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**NOT PUBLIC DATA HAS BEEN EXCISED**

**Purchased Gas Adjustment, February 2023**  
**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>Value</u>	<u>Source</u>
Volume (Dth)	104,117	104,117	104,117	Contract
times Total Rate	\$13.145	\$14.2157	\$7.8978	See detail below
times Month/Year	2	3	7	
Annual Total	\$2,737,235.93	\$4,440,288.11	\$5,756,066.70	
	Rate	Rate	Rate	
	Nov-Dec	Jan-Mar	Apr-Oct	
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>
Discount Tariff Rate - TF12	\$13.145	\$14.2157	\$7.8978	see Note 1
Base Tariff Rate - TF12	\$13.145	\$24.976	\$13.876	see Note 1

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

<u>TF12V Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	0	0	0	Contract
times Total Rate	\$17.818	\$19.2694	\$7.8978	See detail below
times Month/Year	2	3	7	
Annual Total	\$0.00	\$0.00	\$0.00	
	Rate	Rate	Rate	
	Nov-Mar	Apr-Oct	Apr-Oct	
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>
Discount Tariff Rate - TF12V	\$17.818	\$19.2694	\$7.8978	see Note 1
Base Tariff Rate - TF12V	\$17.818	\$33.8540	\$13.8760	see Note 1

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

<u>TF5 Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	62,415	62,415	Contract
times Total Rate	\$19.471	\$21.0570	See detail below
times Month/Year	2	3	
Annual Total	\$2,430,564.93	\$3,942,817.97	
	Rate	Rate	
	Nov-Dec	Jan-Mar	
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>
Discount Tariff Rate - TF5	\$19.471	\$21.0570	see Note 1
Base Tariff Rate - TF5	\$19.471	\$36.9950	see Note 1

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**Purchased Gas Adjustment, February 2023**  
**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	20,674	Contract	
times Discounted Rate	\$5.302	\$5.910	\$5.454	Contract	
times Month/Year	12	12	12	Contract	
Annual Total	\$0.00	\$0.00	\$1,352,947.91		\$1,352,947.91
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	20,674		
Annual Total	\$0.00	\$0.00	\$4,100,687.90		\$4,100,687.90
TF12B Annual Savings					\$2,747,739.99

<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	9,444	Contract	
times Discounted Rate	\$5.302	\$5.910	\$5.454	Contract	
times Month/Year	12	12	12	Contract	
Annual Total	\$2,023,116.02	\$2,312,363.71	\$618,034.25		\$4,953,513.98
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	9,444		
Annual Total	\$7,451,928.33	\$7,641,032.64	\$2,213,012.52		\$17,305,973.49
TF12V Annual Savings					\$12,352,459.51

<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	\$5.302	\$5.910	\$5.454	Contract	
times Month/Year	5	5	5	Contract	
Annual Total	\$350,773.75	\$453,199.56	\$28,030.99		\$832,004.29
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 Nov-Dec	\$19.471	\$19.471	\$19.471	see Note 1	
times Total Rate Jan-Mar	\$36.995	\$36.995	\$36.995	see Note 1	
times Month/Year	5	5	5		
Annual Total	\$1,983,983.99	\$2,299,580.33	\$154,124.96		\$4,437,689.27
TF5 Annual Savings					\$3,605,684.98

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**Purchased Gas Adjustment, February 2023**  
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<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	\$5.302	\$5.910	\$5.454	Contract
<u>times Month/Year</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>Contract</u>
Annual Total	\$1,287,628.32	\$67,072.83	\$233,028.06	\$1,587,729.20
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 Nov-Dec	\$19.471	\$19.471	\$19.471	see Note 2
times Total Rate Jan-Mar	\$36.995	\$36.995	\$36.995	see Note 2
<u>times Month/Year</u>	<u>5</u>	<u>5</u>	<u>5</u>	
Annual Total	\$7,282,853.95	\$340,334.29	\$1,281,276.14	\$8,904,464.38
TFX Annual Savings				\$7,316,735.18

<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	\$5.606	\$5.454	\$5.454	Contract
<u>times Month/Year</u>	<u>12</u>	<u>5</u>	<u>2</u>	<u>Contract</u>
Annual Total	\$113,006.88	\$209,987.02	\$36,822.03	\$359,815.93
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	\$415,059.12	\$534,295.38	\$93,690.75	\$1,043,045.25
TFX Annual Savings				\$683,229.32

<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	19,999	19,999	Contract
times Discounted Rate	\$4.694	\$7.453	\$5.850	Contract
<u>times Month/Year</u>	<u>12</u>	<u>5</u>	<u>7</u>	<u>Contract</u>
Annual Total	\$563,220.00	\$745,232.74	\$818,889.05	\$2,127,341.79
TFX Annual Dollars	Firm Transport	Firm Transport		
<u>Full Rate (No Discount)</u>	<u>Value</u>	<u>Value</u>		
Volume (Dth)	10,000	19,999		
Annual Total	\$2,470,590.00	\$4,940,932.94	\$7,411,522.94	
TFX Annual Savings			\$5,284,181.15	

<b>NNG Firm Transportation - TFX 112185 Growth Option</b>				
TFX Annual Dollars	Cedar/Rosemount			
<u>Discount Rate</u>	<u>Value</u>	<u>Source</u>		
Volume (Dth)	3,767	Contract		
times Discounted Rate	\$5.910	Contract		
<u>times Month/Year</u>	<u>12</u>	<u>Contract</u>		
Annual Total	\$267,133.04			
TFX Annual Dollars	Firm Transport			
<u>Full Rate (No Discount)</u>	<u>Value</u>			
Volume (Dth)	3,767			
Annual Total	\$930,671.25		\$930,671.25	
TFX Annual Savings			\$663,538.22	

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**Purchased Gas Adjustment, February 2023**  
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<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)	62,256	25,626	20,201	Contract
times Total Rate	\$19.471	\$36.995	\$13.876	See Detail Below
<u>times Month/Year</u>	<u>2</u>	<u>3</u>	<u>7</u>	Contract
Annual Total	\$2,424,373.15	\$2,844,101.61	\$1,962,163.53	
	Rate	Rate	Rate	
	Nov-Dec	Jan-Mar	Apr-Oct	
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>
Base Tariff Rate - TFX	\$19.471	\$36.995	\$13.876	see Note 2

<b>NNG Firm Transportation - TFX 112186 Disc</b>				
<u>TFX Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	36,630	20,303	1,000	Contract
times Total Rate	\$21.168	\$7.939	\$7.939	See Detail Below
<u>times Month/Year</u>	<u>3</u>	<u>5</u>	<u>2</u>	Contract
Annual Total	\$2,326,129.54	\$805,968.19	\$15,878.80	
	Rate	Rate	Rate	
	Jan-Mar	Apr-Jun, Sep-Oct	July-Aug	
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>
Discount Tariff Rate - TFX	\$21.1678	\$7.9394	\$7.9394	Contract

<b>NNG Firm Transportation - TFX 112184</b>				
<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		
<u>times Month/Year</u>				
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 Nov-Dec	\$19.471			
times Total Rate Jan-Mar	\$36.995			
<u>times Month/Year</u>	<u>5</u>			
Annual Total	\$3,748,175.00			
TFX Annual Savings		\$2,185,675.00		

<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	28,500	Contract	
times Total Rate	\$19.471	\$36.995	See detail below	
<u>times Month/Year</u>	<u>2</u>	<u>3</u>		
Annual Total	\$1,109,847.00	\$3,163,072.50		
	Rate	Rate		
	Nov-Dec	Jan-Mar		
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>	
Base Tariff Rate - TFX	\$19.471	\$36.995	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)	17,273	17,273	Contract	
times Total Rate	\$10.706	\$5.350	See detail below	
<u>times Month/Year</u>	<u>5</u>	<u>7</u>		
Annual Total	\$924,649.60	\$646,813.39		
	Rate	Rate		
	Nov-Mar	Apr-Oct		
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>	
Discount Rate - TFX	\$10.706	\$5.350	Contract	
TFX Full Rate	\$2,589,689.07	\$1,677,761.04		
TFX Annual Savings			\$2,695,987.11	

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**Purchased Gas Adjustment, February 2023**  
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**NNG Firm Transportation - TFX 122068**

<u>TFX12 Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	9,969	9,969	9,969	Contract
times Total Rate	\$19.471	\$36.995	\$13.876	See detail below
<u>times Month/Year</u>	<u>2</u>	<u>3</u>	<u>7</u>	
Annual Total	\$388,212.80	\$1,106,409.47	\$968,308.91	
	<u>Rate</u>	<u>Rate</u>	<u>Rate</u>	
	Nov-Dec	Jan-Mar	Apr-Oct	
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>
Base Tariff Rate - TFX	\$19.471	\$36.995	\$13.876	see Note 2

**NNG Firm Transportation - TFX 140626**

<u>TFX12 Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	16,255	16,255	Contract
times Total Rate	\$19.471	\$36.995	See detail below
<u>times Month/Year</u>	<u>2</u>	<u>3</u>	
Annual Total	\$633,002.21	\$1,804,061.18	
	<u>Rate</u>	<u>Rate</u>	
	Nov-Dec	Jan-Mar	
<u>Cost Components</u>	<u>(\$/Dth)</u>	<u>(\$/Dth)</u>	<u>Source</u>
Base Tariff Rate - TFX	\$19.471	\$36.995	see Note 2

**VGT Firm Transportation - FTA AF0360**

<u>FT-A Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	22,000	Contract
times Total Rate	\$4.7580	See detail below
<u>times Month/Year</u>	<u>12</u>	
Annual Total	\$1,256,112.00	
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate: Cat 3; Zone 1-2	\$4.7580	see Note 3
		<u>Term</u>
		> 5 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	\$4.7580	See detail below
<u>times Month/Year</u>	<u>12</u>	
Annual Total	\$4,123,073.45	
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate: Cat 3; Zone 1-2	\$4.7580	See Note 3
		<u>Term</u>
		> 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	32,405	Contract
times Total Rate	\$3.8060	\$3.8060	See detail below
<u>times Month/Year</u>	<u>5</u>	<u>12</u>	
Annual Total	\$80,668.17	\$1,480,001.16	
	<u>Rate</u>	<u>Rate</u>	
	(\$/Dth)	(\$/Dth)	
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate: Cat 3 FTA Zone 1-1	\$3.8060	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	\$3.8060	See detail below
<u>times Month/Year</u>	<u>12</u>	
Annual Total	\$456,720.00	
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate: Cat 3 FT-A Zone 1-1	\$3.8060	See Note 3
		<u>Term</u>
		> 5 Years

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**Purchased Gas Adjustment, February 2023**  
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**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	\$4.7580	See detail below
times Month/Year	12	
Annual Total	\$890,697.60	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate: Cat 3; Zone 1-2	\$4.7580	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	\$4.7580	See detail below
times Month/Year	12	
Annual Total	\$856,440.00	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate: Cat 3; Zone 1-2	\$4.7580	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	\$3.8060	See detail below
times Month/Year	12	
Annual Total	\$922,574.40	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>	<u>Term</u>
Base Tariff Rate: Cat 3; Zone 1-1	\$3.8060	See Note 3	> 5 Years

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**Purchased Gas Adjustment, February 2023**  
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**ANR Firm Transportation - FTS 114492**

<u>FTS-1 Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	66,500	Contract
times Total Rate	\$6.4738	Contract
<u>times Month/Year</u>	<u>12</u>	
Annual Total	\$5,166,092.40	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate: ML-7 to ML-7	\$6.4738	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	\$9.130	See detail below
<u>times Month/Year</u>	<u>5</u>	
Annual Total	\$220,443.85	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Discounted Rate: SW to ML-7	\$9.130	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	5,429	Contract
times Total Rate	\$6.4738	\$6.4738	See detail below
<u>times Month/Year</u>	<u>5</u>	<u>7</u>	
Annual Total	\$491,070.10	\$246,023.82	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate: ML-7 to ML-7	\$6.4738	See Note 4

**ANR Firm Transportation - FTS 135957**

<u>FTS-1 Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	22,000	Contract
times Total Rate	\$6.4738	See detail below
<u>times Month/Year</u>	<u>12</u>	
Annual Total	\$1,709,083.20	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate: ML-7 to ML-7	\$6.4738	See Note 4

**GLT Firm Transportation - FT18539**

<u>FT Annual Dollars</u>	<u>Value</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	3,509	5,370	Contract
times Rate	\$8.186	\$8.186	See detail below
<u>times Month/Year</u>	<u>5</u>	<u>7</u>	
Annual Total	\$143,623.37	\$307,711.74	

<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Resv Fee: Western to Eastern Zone	\$8.186	see Note 5

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**GLT Firm Transportation - FT18071**

<u>FT Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	9,248	Contract
times Rate	\$8.186	See detail below
<u>times Month/Year</u>	<u>5</u>	
Annual Total	\$378,520.64	
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Resv Fee: Western to Eastern Zone	\$8.186	see Note 5

**WBI Firm Transportation - FT-1482**

<u>FT-1 Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	8,000	Contract
times Rate	\$9.84165	See detail below
<u>times Month/Year</u>	<u>12</u>	
Annual Total	\$944,798.40	
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate	\$9.84165	see Note 6

**WBI Firm Transportation - FT1125**

<u>FT-1 Annual Dollars</u>	<u>Value</u>	<u>Source</u>
Volume (Dth)	461	Contract
times Rate	\$9.84165	See detail below
<u>times Month/Year</u>	<u>12</u>	
Annual Total	\$54,444.01	
<u>Cost Components</u>	<u>Rate (\$/Dth)</u>	<u>Source</u>
Base Tariff Rate	\$9.84165	see Note 6

**NOTES:**

- [1] NNG Sixth Revised Volume No. 1, Twentieth Revised Sheet No. 50 (RP22-1033), Effective 1/1/23
- [2] NNG Sixth Revised Volume No. 1, Twenty Third Revised Sheet No. 51 (RP22-1033), Effective 1/1/23
- [3] VGT Volume No. 1, Part 5.0 Statement of Rates, Effective November 1, 2022
- [4] ANR Third Revised Volume No. 1, Part 4.3 Statement of Rates, Effective November 1, 2022
- [5] GLT Third Revised Volume No. 1, Part 4.1 Statement of Rates, Effective February 1, 2019
- [6] WBI Third Revised Volume No. 1, Fifteenth Revised Sheet No. 12, Effective May 1, 2019

February-23  
Northern States Power Company

WACOG Worksheet

<b>SUMMARY INFORMATION</b>					
	Firm	Interruptible	Combined	High	Low
NNG	\$5.6504	\$6.8837	\$6.0688	\$6.9573	\$3.2052
VGT	\$3.2554	\$3.2747	\$3.2607	\$3.7029	\$3.0735
WBI	\$6.4817	---	\$6.4817	\$6.4817	\$6.4817
ANR	\$4.6055	---	\$4.6055	\$5.7874	\$4.3126
SYSTEM	---	---	\$6.2133	\$6.9573	\$3.0735

(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	\$6.4589	Not included			
2	\$6.4286	Not included			
3	\$6.2117	Not included			
4	\$6.8034	Not included			
5	\$6.8967	Not included			
6	\$6.8866	Not included			
7	\$6.8967	Not included			
8	\$6.9573	Not included			
9	\$6.7858	Not included			
10	\$6.6344	Not included			
11	\$3.3011	Not included			
12	\$3.3314	Not included			
13	\$3.3061	Not included			
14	\$3.2052	Not included			

Subtotal \$5.6504

**NNG Interruptible**

	\$3.251	Not included			
	\$5.650	Not included			
	\$7.048	Not included			
	\$6.637	Not included			

Subtotal \$6.8837

ANR Storage  
FDD Storage  
Vent Spot Pur  
Demarc Spot Pur

**GLT/VGT Firm**

13	\$3.0735				
14	\$3.1188				
15	\$3.1087				
16	\$3.7029				

Subtotal \$3.2554

**VGT Interruptible**

	\$3.275	Not included			
--	---------	--------------	--	--	--

Subtotal \$3.2747

Emerson Spot Pur

**WBI Firm**

17	\$6.4817	Not included			
----	----------	--------------	--	--	--

Subtotal \$6.4817

PROTECTED DATA ENDS]

Feb-23  
Northern States Power Company

WACOG Worksheet

<b>WBI Interruptible</b>		<b>[PROTECTED DATA BEGINS]</b>			
	\$0.0000	Not included			

Subtotal

<b>ANR Firm</b>					
18	\$4.3377	Not included			
19	\$4.3126	Not included			
		Not included			
20	\$5.7874	Not included			
Subtotal	\$4.6055				

<b>NNG Other</b>					
SMS	\$0.0208	Not included			
Subtotal					

<b>NSP Peakshaving</b>					
LNG Boiloff	\$2.4700	Not included			
LNG	\$2.8500	Not included			
LPG	\$9.7161	Not included			
Subtotal	\$2.8500				

**PROTECTED DATA ENDS]**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
				(2) x (4)	[(2) + (3)] x (4)	(7) - [(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

<b>STORAGE Firm</b>		<b>[PROTECTED DATA BEGINS]</b>						
	\$7.2100	Not included						
	\$7.0700	Not included						
	\$7.3200	Not included						
Balancing Demand		Not included						
Storage Demand		Not included						
Subtotal	7.5966							

**PROTECTED DATA ENDS]**

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

<b>Hedging Adjustment/Opportunity Sales</b>		<b>[PROTECTED DATA BEGINS]</b>			
Hedging Adj.	\$0.0000	Not included			
Opportunity Sales		Not included			
Subtotal	#DIV/0!				

**PROTECTED DATA ENDS]**

<b>TOTAL</b>					
ALL	\$6.2133	Not included	12,816,063	\$79,629,533	\$79,629,533

Northern States Power Company

2/1/2023

**Actual Daily Delivery Variance Charges  
Pursuant to Docket No. G,E999/AA-96-940**

Prod. Month	Negative		Positive		Punitive		Critical @ \$113.42/Mcf		WBI @ \$26.61054/Mcf		WBI @ \$18.61004/Mcf	
	Mcf	Dollars	Mcf	Dollars	Mcf	Dollars	Mcf	Dollars	Mcf	Dollars	Mcf	Dollars
Jan-21	0	\$0.00	4,107	\$4,107.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Feb-21	1,383	\$911.12	84	\$418.95	97	\$1,557.34	0	\$0.00	0	0	0	\$0.00
Mar-21	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Apr-21	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
May-21	3,799	\$981.28	94,811	\$24,489.68	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Jun-21	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Jul-21	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Aug-21	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Sep-21	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Oct-21	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Nov-21	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Dec-21	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Jan-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Feb-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Mar-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Apr-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
May-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Jun-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Jul-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Aug-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Sep-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Oct-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Nov-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Dec-22	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00

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	\$2.6657	\$9.9011	\$12.5667	\$22.4678	\$19.4213	\$17.1365	\$14.8516
	- Cmd	0.0016	0.0206	0.0278	0.0629	0.0598	0.0479	0.0356
	- MIN	0.0016	0.0206	0.0278	0.0629	0.0598	0.0479	0.0356
	- Ovm	0.0892	0.3461	0.4410	0.8016	0.6983	0.6113	0.5239
SE – Southern (ML-2)	- Res	\$9.9011	\$7.2354	\$9.9011	\$19.8021	\$16.7556	\$14.4708	\$12.1859
	- Cmd	0.0206	0.0190	0.0262	0.0613	0.0582	0.0463	0.0340
	- MIN	0.0206	0.0190	0.0262	0.0613	0.0582	0.0463	0.0340
	- Ovm	0.3461	0.2569	0.3517	0.7123	0.6091	0.5221	0.4346
SE – Central (ML-3)	- Res	\$12.5667	\$9.9011	\$6.8546	\$16.7556	\$13.7092	\$11.4243	\$9.1394
	- Cmd	0.0278	0.0262	0.0072	0.0423	0.0392	0.0273	0.0150
	- MIN	0.0278	0.0262	0.0072	0.0423	0.0392	0.0273	0.0150
	- Ovm	0.4410	0.3517	0.2326	0.5932	0.4899	0.4029	0.3155
SOUTHWEST AREA (SW)	- Res	\$22.4678	\$19.8021	\$16.7556	\$3.0465	\$9.5203	\$11.8051	\$14.0900
	- Cmd	0.0629	0.0613	0.0423	0.0031	0.0150	0.0273	0.0351
	- MIN	0.0629	0.0613	0.0423	0.0031	0.0150	0.0273	0.0351
	- Ovm	0.8016	0.7123	0.5932	0.1033	0.3280	0.4154	0.4983
SW – Southern (ML-5)	- Res	\$19.4213	\$16.7556	\$13.7092	\$9.5203	\$6.4738	\$8.7586	\$11.0435
	- Cmd	0.0598	0.0582	0.0392	0.0150	0.0119	0.0242	0.0320
	- MIN	0.0598	0.0582	0.0392	0.0150	0.0119	0.0242	0.0320
	- Ovm	0.6983	0.6091	0.4899	0.3280	0.2247	0.3122	0.3951
SW – Central (ML-6)	- Res	\$17.1365	\$14.4708	\$11.4243	\$11.8051	\$8.7586	\$6.4738	\$8.7586
	- Cmd	0.0479	0.0463	0.0273	0.0273	0.0242	0.0123	0.0201
	- MIN	0.0479	0.0463	0.0273	0.0273	0.0242	0.0123	0.0201
	- Ovm	0.6113	0.5221	0.4029	0.4154	0.3122	0.2251	0.3081
NORTHERN (ML-7)	- Res	\$14.8516	\$12.1859	\$9.1394	\$14.0900	\$11.0435	\$8.7586	\$6.4738
	- Cmd	0.0356	0.0340	0.0150	0.0351	0.0320	0.0201	0.0078
	- MIN	0.0356	0.0340	0.0150	0.0351	0.0320	0.0201	0.0078
	- Ovm	0.5239	0.4346	0.3155	0.4983	0.3951	0.3081	0.2206

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).

The rates shown are subject to all applicable reservation and volumetric charges or surcharges, including but not limited to those charges in Sections 4.16, 4.18, 4.19 and 4.20.

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	\$2.1126	\$ 0
b. Capacity Rate	\$ 0.4142	\$ 0
2. Commodity Rate		
Injection/Withdrawal	\$ 0.0124	\$ 0.0124
3. Overrun Service Rate	2/	\$ 0.0124
With Ratchets and Flexible Entitlements -----		
1. Reservation Rate		
a. Deliverability Rate	\$ 2.5372	\$ 0
b. Capacity Rate	\$ 0.4142	\$ 0
2. Commodity Rate		
Injection/Withdrawal	\$ 0.0124	\$ 0.0124
3. Overrun Service Rate	2/	\$ 0.0124
Without Ratchets and Seasonal Entitlements -----		
1. Reservation Rate		
a. Deliverability Rate	\$ 2.6926	\$ 0
b. Capacity Rate	\$ 0.4142	\$ 0
2. Commodity Rate		
Injection/Withdrawal	\$ 0.0124	\$ 0.0124
3. Overrun Service Rate	2/	\$ 0.0124
Without Ratchets and Flexible Entitlements -----		
1. Reservation Rate		
a. Deliverability Rate	\$ 3.1068	\$ 0
b. Capacity Rate	\$ 0.4142	\$ 0
2. Commodity Rate		
Injection/Withdrawal	\$ 0.0124	\$ 0.0124
3. Overrun Service Rate	2/	\$ 0.0124

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	(\$0.0021)	(\$0.0021)
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.

STATEMENT OF RATES FOR STORAGE OF NATURAL GAS

RATE SCHEDULE FS  
 -----

	Rate per Dth -----
1. Reservation Rate	
a. Deliverability – Monthly	Market Based
b. Capacity – Monthly	Market Based
c. Deliverability - Daily (3)	Market Based
d. Capacity - Daily (3)	Market Based
2. Injection/Withdrawal Commodity Rate	Market Based
3. Overrun Service Rate (1)	Market Based

RATE SCHEDULE IS  
 -----

	Rate per Dth -----
1. Commodity Rate	Market Based

SURCHARGE APPLICABLE TO  
 FS AND IS SERVICE (2)  
 -----

	Maximum Rate per Dth -----	Minimum Rate per Dth -----
1. ACA	(4)	(4)

Rate Schedules FS and IS (5)  
 -----

Seller's Injection Use	Market Based
Seller's Withdrawal Use	Market Based

- (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) 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.
- (5) May be assessed in-kind or on a dollars-per-dekatherm basis.

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

	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)
<b>Receipts in Western Zone -</b> -----			
Reservation Fee	\$2.754	\$4.586	\$8.186
Utilization Fee	0.00288	0.00544	0.00954
Max. Volumetric Rate at 100% L.F. 4/ 5/	0.09054	0.15079	0.26913
<b>Receipts in Central Zone -</b> -----			
Reservation Fee	\$4.586	\$2.366	\$5.965
Utilization Fee	0.00544	0.00256	0.00666
Max. Volumetric Rate at 100% L.F. 4/ 5/	0.15079	0.07778	0.19612
<b>Receipts in Eastern Zone -</b> -----			
Reservation Fee	\$8.186	\$5.965	\$4.133
Utilization Fee	0.00954	0.00666	0.00410
Max. Volumetric Rate at 100% L.F. 4/ 5/	0.26913	0.19612	0.13587

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

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

RATE SCHEDULE TF

RESERVATION RATES	MARKET-TO-MARKET			FIELD-TO-FIELD/MARKET DEMARCATION
	TF12 Base	TF12 Variable	TF5	TF6
Base Tariff Rates 1/				
Summer (Apr-Oct)	13.876	13.876	-0-	8.798
Winter (Nov-Mar)	<u>24.976</u>	<u>33.854</u>	<u>36.995</u>	<u>15.837</u>

  

COMMODITY RATES 2/ 3/						
TF12 Base, TF12 Var., TF5 & TFF		Market Area 4/	Field Mileage Rate per 100 miles	Out-of Balance	Carlton Surcharge 5/	
Receipt Point	Delivery Point	Commodity	Commodity	Commodity	Maximum	Minimum
Market	Market	0.0260		0.0260	0.0175	0.0000
Field	Market	0.0260	0.0103		0.0175	0.0000
Market	Field		0.0103			
Field	Field		0.0103	0.0217		

- 1/ The minimum reservation rate is equal to zero.
- 2/ Shipper shall pay the applicable Electric Compression commodity rate as shown in Sheet No. 54 and ACA unit surcharge as posted on FERC's website at <https://www.ferc.gov>.
- 3/ The firm transportation services commodity rates are not discountable. The commodity rate is the maximum and minimum commodity rate. The applicable MIDs commodity rate will be in addition to the TF reservation rates. The MIDs rates shown in Sheet Nos. 59-60A represent the throughput commodity rates for any transaction involving MIDs.
- 4/ There will be no commodity charge for transportation from the Ventura pooling point (POI 78623) to the NBPL/NNG Ventura point (POI 192) and from the Ventura pooling point (POI 78623) to the MID 17 pooling point (POI 71458). In addition, there will be no commodity charge for transportation as set forth in Sheet Nos. 141, 142C and 147.
- 5/ Applicable to Market Area Shippers as provided for in the Carlton Settlement filed in Docket No. RP96-347 dated October 28, 1996.

RATE SCHEDULE TFX

RESERVATION RATES	MARKET-TO-MARKET		FIELD-TO-FIELD	
	Apr-Oct	Nov-Mar	Apr-Oct	Nov-Mar
Base Tariff Rates 1/	<u>\$13.876</u>	<u>\$36.995</u>	<u>\$8.798</u>	<u>\$15.837</u>

COMMODITY RATES 2/ 3/

TFX	Market Area 4/	Field Mileage Rate per 100 miles	Out-of-Balance	Carlton Surcharge 5/
Receipt Point	Delivery Point	Commodity	Commodity	Maximum Minimum
Market	Market	0.0260	0.0260	0.0175 0.0000
Field	Market	0.0260	0.0103	0.0175 0.0000
Market	Field	0.0103		
Field	Field	0.0103	0.0217	

- 1/ The minimum reservation rate is equal to zero.
- 2/ Shipper shall pay the applicable Electric Compression commodity rate as shown in Sheet No. 54 and ACA unit surcharge as posted on FERC's website at <https://www.ferc.gov>.
- 3/ The firm transportation services commodity rates are not discountable. The commodity rate is the maximum and minimum commodity rate. The applicable MIDs commodity rate will be in addition to the TFX reservation rates. The MIDs rates shown in Sheet Nos. 59-60A represent the throughput commodity rates for any transaction involving MIDs.
- 4/ There will be no commodity charge for transportation from the Ventura pooling point (POI 78623) to the NBPL/NNG Ventura point (POI 192) and from the Ventura pooling point (POI 78623) to the MID 17 pooling point (POI 71458). In addition, there will be no commodity charge for transportation as set forth in Sheet Nos. 141, 142C and 147.
- 5/ Applicable to Market Area Shippers as provided for in the Carlton Settlement filed in Docket No. RP96-347 dated October 28, 1996.

RATE SCHEDULES FDD, PDD, IDD, ILD & SMS

Rate Schedule FDD

Maximum Reservation Charge	4.3552	1/
Maximum Capacity Charge	0.9065	1/
Injection Charge - Firm	0.0232	
Withdrawal Charge - Firm	0.0232	
Annual Rollover Charge	0.9065	1/

Rate Schedule PDD

Maximum Capacity Charge	0.9065	1/
Maximum Monthly Inventory Charge	0.2188	1/
Injection Charge	0.0232	
Withdrawal Charge	0.0232	
Annual Rollover Charge	0.9065	1/

Rate Schedule IDD

Maximum Monthly Inventory Charge	0.2188	1/
Injection Charge	0.0232	
Withdrawal Charge	0.0232	
Annual Rollover Charge	0.9065	1/

Rate Schedule ILD

Maximum Charge	11.7500	
Minimum Charge	0.5044	
Performance Obligation Charge	2.0000	

Rate Schedule SMS

Reservation Charge	6.1010	
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
<b>Category 1 (Contract Term of Less than 3 Years)</b>	
Monthly Reservation Rates	
FT-A	
Zone 1-1 Maximum Rate	\$3.9106
Zone 1-1 Minimum Rate	\$0.0000
Zone 1-2 Maximum Rate 1/	\$4.9080
Zone 1-2 Minimum Rate	\$0.0000
Zone 2-2 Maximum Rate	\$2.6118
Zone 2-2 Minimum Rate	\$0.0000
<b>Category 2 (Contract Term of 3 Years to less than 5 Years)</b>	
Monthly Reservation Rates	
FT-A	
Zone 1-1 Maximum Rate	\$3.8583
Zone 1-1 Minimum Rate	\$0.0000
Zone 1-2 Maximum Rate	\$4.8330
Zone 1-2 Minimum Rate	\$0.0000
Zone 2-2 Maximum Rate	\$2.5890
Zone 2-2 Minimum Rate	\$0.0000
<b>Category 3 (Contract Term of 5 or more Years)</b>	
Monthly Reservation Rates	
FT-A	
Zone 1-1 Maximum Rate	\$3.8060
Zone 1-1 Minimum Rate	\$0.0000
Zone 1-2 Maximum Rate	\$4.7580
Zone 1-2 Minimum Rate	\$0.0000
Zone 2-2 Maximum Rate	\$2.5662
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.

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
-----					
RATE SCHEDULE FT-1					
-----					
RESERVATION CHARGE					
MAXIMUM DAILY DELIVERY QUANTITY (MDDQ)					
MAXIMUM	RATE PER EQV. DKT PER MO.	984.165	N.A.	N.A.	984.165
MINIMUM	RATE PER EQV. DKT PER MO	0.000	N.A.	N.A.	0.000
COMMODITY CHARGE					
MAXIMUM A/B/C/	RATE PER DKT	2.477	N.A.	N.A.	2.477
MINIMUM A/B/C/	RATE PER DKT	2.477	N.A.	N.A.	2.477
SCHEDULED OVERRUN CHARGE					
MAXIMUM A/B/C/	RATE PER DKT	34.367	N.A.	N.A.	34.367
MINIMUM A/B/C/	RATE PER DKT	2.477	N.A.	N.A.	2.477
VOLUMETRIC CAPACITY RELEASE CHARGE					
MAXIMUM	RATE PER DKT	32.356	N.A.	N.A.	32.356
MINIMUM	RATE PER DKT	0.000	N.A.	N.A.	0.000

- 
- A/ SHIPPER MUST REIMBURSE TRANSPORTER IN-KIND FOR TRANSPORTATION FUEL USE AND LOST AND UNACCOUNTED FOR GAS. THE APPLICABLE PERCENTAGES ARE REFLECTED ON SHEET NO. 21A. THESE PERCENTAGES 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 REFLECTED ON SHEET NO. 21B. 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."