



414 Nicollet Mall
Minneapolis, MN 55401

May 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 June 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. Our forecast shows that the February Event expenses will be fully recovered by the end of April 2023, and therefore we have set these rates to zero effective May 1, 2023. We will include any remaining true-up of this expense in our September 1, 2023 cost of gas true-up report.

The net effect of the COG is an increase to the Residential rate by \$0.01515 per therm from the May COG rate, 6.96%, or \$0.20 for a typical June North Dakota Residential customer using 13 therms. Compared to May, the Commercial/Industrial price is 4.29% higher and the Interruptible prices are 4.88-5.44% higher. Natural gas commodity costs increase slightly but remain low due to higher than average storage inventories and mild weather. June rates also include a reduction in demand costs to reflect a settlement in principle reached in the Northern Natural rate case. Compared to last June, prices are 82% lower.

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

<u>Customer Class</u>	<u>\$/therm</u>
Residential	\$0.23272
Commercial/Industrial	\$0.23277
Small Interruptible	\$0.23844
Large Interruptible	\$0.23844

Please contact Nicholas Gingher at nicholas.a.gingher@xcelenergy.com, or me at 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	\$0.25093	(\$0.02828)	\$0.00000	\$0.01007	\$0.23272	\$0.23272
Commercial/Industrial	Basic Service	\$35.00						\$35.00
	Commodity	\$0.13581	\$0.25093	(\$0.02823)	\$0.00000	\$0.01007	\$0.23277	\$0.36858
Small Interruptible	Basic Service	\$100.00						\$100.00
	Commodity	\$0.11065	\$0.19795	\$0.03042	\$0.00000	\$0.01007	\$0.23844	\$0.34909
Large Interruptible	Basic Service	\$275.00						\$275.00
	Commodity	\$0.07636	\$0.19795	\$0.03042	\$0.00000	\$0.01007	\$0.23844	\$0.31480

Units:

Customer Charge - \$ per month

Commodity Charge - \$ per therm

		<u>NATURAL GAS COST COMPONENT</u>		
		<u>1</u>	<u>2</u>	<u>3</u>
Cost Summary	Ref	Prior Cost	Current Adjusts	Current Cost
Annual Demand	(a)	0.05407	-0.00109	0.05298
<u>Commodity</u>				
Residential	(b)	0.18171	0.01624	0.19795
C & I	(b)	0.18171	0.01624	0.19795
Sm Interruptible	(b)	0.18171	0.01624	0.19795
Large Interruptible	(b)	0.18171	0.01624	0.19795

BILLING COST OF GAS BY CLASS (From Column 3)

Class Summary	Residential	C&I	Small Interruptible	Large Interruptible
Annual Demand	0.05298	0.05298	N / A	N / A
Commodity	0.19795	0.19795	0.19795	0.19795
SUBTOTAL	0.25093	0.25093	0.19795	0.19795
TRUE-UP	-0.02828	-0.02823	0.03042	0.03042
TRUE-UP (Feb. Weather Event)	0.00000	0.00000	0.00000	0.00000
MGP	0.01007	0.01007	0.01007	0.01007
TOTAL COG	0.23272	0.23277	0.23844	0.23844

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

DERIVATION OF CURRENT COSTS - NORTH DAKOTA

June 1, 2023

	<u>12-Month Cost</u>	<u>Winter Cost</u>	Total Cost
<u>Demand Cost (Residential and Commercial Firm)</u>			
1. System Demand Detail Total	\$43,458,059	\$36,714,477	
2. <u>x North Dakota Design Day Ratio</u>	<u>12.79%</u>	<u>12.79%</u>	
3. North Dakota System Demand Allocation	\$5,557,431	\$4,695,060	
4. ND Annual / Seasonal Firm Therm Sales (Forecast)	104,887,100	78,897,520	
5. Demand Unit Cost \$/Therm	\$0.05298	\$0.00000	\$0.05298 (a)
<u>Commodity Cost</u>			
6. NNG Annual/Best Effort/Viking/WBI/Xcel Energy Peakshaving			\$4,722,860
7. <u>x ND Portion of Monthly Retail Sales</u>			<u>14.52%</u>
8. ND Portion of Monthly Commodity Costs			\$685,759
9. ND Budgeted Calendar Month Retail Therm Sales			3,464,224
10. Commodity Unit Cost \$/Therm (8 / 9)			\$0.19795 (b)
11. Hedging Cost per Therm (informational)	\$0.00000		
<u>Total Gas Cost per Therm</u>			
12. Residential/Commercial & Industrial			\$0.25093 (a) + (b)
13. Small and Large Interruptible Commodity			\$0.19795 (b)

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	\$7,898,258	\$6,303,179	\$4,810,403	\$2,301,996	\$0	\$0
Commercial & Industrial	\$1,129,220	\$1,080,761	\$1,320,993	\$1,816,768	\$3,053,639	\$7,091,279	\$10,878,195	\$8,752,871	\$7,126,170	\$3,483,538	\$0	\$0
Small Interruptible	\$168,182	\$160,440	\$199,551	\$196,400	\$231,727	\$366,870	\$493,800	\$250,171	\$423,050	\$196,485	\$0	\$0
Large Interruptible	\$570,987	\$562,206	\$903,274	\$629,708	\$726,108	\$874,963	\$1,299,273	\$862,021	\$1,068,486	\$473,573	\$0	\$0
Total	\$2,230,674	\$2,160,092	\$2,850,646	\$3,470,883	\$5,675,389	\$12,896,747	\$20,569,527	\$16,168,242	\$13,428,109	\$6,455,593	\$0	\$0
<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	\$9,247,284	\$11,224,622	\$11,227,937	\$11,217,142	\$0	\$0
Commodity	\$20,001,964	\$15,276,066	\$20,622,051	\$21,649,582	\$29,578,504	\$54,743,011	\$114,188,367	\$95,958,459	\$65,412,311	\$43,150,516	\$0	\$0
Peak Shaving	\$48,805	\$57,391	\$56,235	\$49,410	\$0	\$0	\$66,305	\$95,393	\$7,144	\$115,373	\$0	\$0
Total Costs	\$23,821,211	\$18,944,221	\$24,575,135	\$25,752,633	\$33,640,586	\$63,975,935	\$123,501,956	\$107,278,473	\$76,647,392	\$54,483,031	\$0	\$0
<u>ND Allocation Factors</u>												
Weighted Avg Demand *	0.1261	0.1261	0.1261	0.1261	0.1279	0.1279	0.1279	0.1279	0.1279	0.1279	0.1279	0.1279
Commodity (Monthly Sales)	0.1426	0.1478	0.1549	0.1512	0.1532	0.1561	0.1516	0.1511	0.1552	0.1628	0.0000	0.0000
Peak Shaving (Monthly Sales)	0.1426	0.1478	0.1549	0.1512	0.1532	0.1561	0.1516	0.1511	0.1552	0.1628	0.0000	0.0000
<u>ND Gas Costs</u>												
Demand	\$475,453	\$455,317	\$491,393	\$511,164	\$519,460	\$1,180,709	\$1,182,546	\$1,435,408	\$1,435,832	\$1,434,452	\$0	\$0
Commodity	\$2,852,280	\$2,257,803	\$3,194,356	\$3,273,417	\$4,531,427	\$8,545,384	\$17,310,957	\$14,499,323	\$10,151,991	\$7,024,904	\$0	\$0
Peak Shaving	\$6,960	\$8,482	\$8,711	\$7,471	\$0	\$0	\$10,052	\$14,414	\$1,109	\$18,783	\$0	\$0
Total Costs	\$3,334,693	\$2,721,602	\$3,694,460	\$3,792,052	\$5,050,887	\$9,726,093	\$18,503,555	\$15,949,145	\$11,588,932	\$8,478,139	\$0	\$0
Over (Under) Recovery	(\$1,104,019)	(\$561,510)	(\$843,814)	(\$321,169)	\$624,502	\$3,170,654	\$2,065,972	\$219,097	\$1,839,177	(\$2,022,546)	\$0	\$0
Deferred Tax (@24.4%)	(\$269,381)	(\$137,008)	(\$205,891)	(\$78,365)	\$152,378	\$773,640	\$504,097	\$53,460	\$448,759	(\$493,501)	\$0	\$0
Net Balance	(\$834,638)	(\$424,502)	(\$637,923)	(\$242,804)	\$472,124	\$2,397,014	\$1,561,875	\$165,637	\$1,390,418	(\$1,529,045)	\$0	\$0
Cumulative Net Balance	(\$834,638)	(\$1,259,140)	(\$1,897,063)	(\$2,139,868)	(\$1,667,744)	\$729,269	\$2,291,144	\$2,456,781	\$3,847,199	\$2,318,153	\$0	\$0
Interest Rate	2.23%	2.63%	3.13%	3.72%	4.15%	4.25%	4.54%	4.65%	4.69%	4.92%	0.00%	0.00%
Monthly Interest	\$0	(\$21,951)	(\$39,411)	(\$70,571)	(\$88,805)	(\$70,879)	\$33,109	\$106,538	\$115,223	\$189,282	\$0	\$0
Cumulative Interest		(\$21,951)	(\$61,362)	(\$131,933)	(\$220,738)	(\$291,617)	(\$258,508)	(\$151,970)	(\$36,747)	\$152,535	\$152,535	\$152,535

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

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Purchased Gas Adjustment, June 2023
Northern States Power Company
Demand Charge Detail

Type	Pipeline	Service Type/ Supplier	Volume Dth per Dav	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	\$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	\$25.7990	3	\$1,983,375.52			\$1,983,375.52
		TFX 112186	20,201	\$9.6760	7	\$1,368,254.13		\$1,368,254.13	
		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	\$25.7990	3	\$771,570.69			\$771,570.69
		TFX 122068	9,969	\$9.6760	7	\$675,220.31		\$675,220.31	
		TFX 111739	28,500	\$19.4710	2	\$1,109,847.00			\$1,109,847.00
		TFX 111739	28,500	\$25.7990	3	\$2,205,814.50			\$2,205,814.50
		TFX 140626	16,255	\$19.4710	2	\$633,002.21			\$633,002.21
		TFX 140626	16,255	\$25.7990	3	\$1,258,088.24	\$49,887,157.87		\$1,258,088.24
	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	5,450	\$6.4738	7	\$246,975.47			\$246,975.47
		FTS 135957	22,000	\$6.4738	12	\$1,709,083.20	\$8,142,286.41	\$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	
<i>Subtotal Firm Transport:</i>						\$69,924,829.22		\$43,458,059.07	\$26,466,770.15
<i>3rd PARTY SUPPLIES</i>									
[PROTECTED DATA BEGINS]									
						\$1,482,949.44		\$0.00	\$1,482,949.44
[PROTECTED DATA ENDS]									

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Purchased Gas Adjustment, June 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	15,267	\$1.6797	12	\$307,727.76	\$307,727.76		\$307,727.76
		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	\$3.2345	10	\$4,535,739.35			\$4,535,739.35
		FDD: R	78,050	\$2.8624	2	\$446,820.64			\$446,820.64
		FDD: R	78,050	\$3.2345	10	<u>\$2,524,527.25</u>	<u>\$8,309,875.94</u>		<u>\$2,524,527.25</u>
		<i>Subtotal Storage:</i>					\$8,764,757.88		\$8,764,757.88
TOTAL MN/ND ALLOCATED DEMAND:							<u>\$80,172,536.54</u>	<u>\$43,458,059.07</u>	<u>\$36,714,477.47</u>

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Purchased Gas Adjustment, June 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	\$17.417	\$9.676	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	\$23.6090	\$9.6760	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	\$25.7990	see Note 1

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Purchased Gas Adjustment, June 2023
Northern States Power Company
Demand Charge Detail Supporting Worksheet

NNG Firm Transportation - TF12 Base 112182					
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	\$3,024,048.00		\$3,024,048.00
TF12B Annual Savings					\$1,671,100.09

NNG Firm Transportation - TF12 Variable 112182					
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	\$5,539,575.20	\$5,680,150.56	\$1,645,097.58		\$12,864,823.34
TF12V Annual Savings					\$7,911,309.36

NNG Firm Transportation - TF5 112182					
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	\$25.799	\$25.799	\$25.799	see Note 1	
times Month/Year	5	5	5		
Annual Total	\$1,539,513.99	\$1,784,407.58	\$119,596.49		\$3,443,518.06
TF5 Annual Savings					\$2,611,513.77

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Purchased Gas Adjustment, June 2023
Northern States Power Company
Demand Charge Detail Supporting Worksheet

NNG Firm Transportation - TFX 112185				
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	\$25.799	\$25.799	\$25.799	see Note 2
<u>times Month/Year</u>	<u>5</u>	<u>5</u>	<u>5</u>	
Annual Total	\$5,651,283.26	\$264,089.53	\$994,233.09	\$6,909,605.89
TFX Annual Savings				\$5,321,876.69

NNG Firm Transportation - TFX 112185				
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	\$309,239.28	\$372,574.38	\$65,332.35	\$747,146.01
TFX Annual Savings				\$387,330.08

NNG Firm Transportation - TFX 112185 Growth Option				
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	\$1,840,710.00	\$3,681,235.93	\$5,521,945.93	
TFX Annual Savings			\$3,394,604.14	

NNG Firm Transportation - TFX 112185 Growth Option				
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	\$693,395.46		\$693,395.46	
TFX Annual Savings			\$426,262.42	

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Purchased Gas Adjustment, June 2023
Northern States Power Company
Demand Charge Detail Supporting Worksheet

NNG Firm Transportation - TFX 112186				
<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	\$25.799	\$9.676	See Detail Below
<u>times Month/Year</u>	<u>2</u>	<u>3</u>	<u>7</u>	Contract
Annual Total	\$2,424,373.15	\$1,983,375.52	\$1,368,254.13	
	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	\$25.799	\$9.676	see Note 2

NNG Firm Transportation - TFX 112186 Disc				
<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

NNG Firm Transportation - TFX 112184				
<u>TFX Annual Dollars</u>	<u>Value</u>	<u>Source</u>		
Discount Rate	25,000	Contract		
Volume (Dth)	\$12,500	Contract		
times Discounted Rate	5	Contract		
<u>times Month/Year</u>	<u>5</u>	Contract		
Annual Total	\$1,562,500.00			
TFX Annual Dollars	Firm Transport			
<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	\$25.799			
<u>times Month/Year</u>	<u>5</u>			
Annual Total	\$2,908,475.00			
TFX Annual Savings			\$1,345,975.00	

NNG Firm Transportation - TFX 111739				
<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	\$25.799	See detail below	
<u>times Month/Year</u>	<u>2</u>	<u>3</u>		
Annual Total	\$1,109,847.00	\$2,205,814.50		
	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	\$25.799	see Note 2	

NNG Firm Transportation - TFX 122067				
<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	\$2,009,523.55	\$1,169,934.84		
TFX Annual Savings			\$1,607,995.39	

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Purchased Gas Adjustment, June 2023
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>Value</u>	<u>Source</u>
Volume (Dth)	9,969	9,969	9,969	Contract
times Total Rate	\$19.471	\$25.799	\$9.676	See detail below
<u>times Month/Year</u>	<u>2</u>	<u>3</u>	<u>7</u>	
Annual Total	\$388,212.80	\$771,570.69	\$675,220.31	
	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	\$25.799	\$9.676	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	\$25.799	See detail below
<u>times Month/Year</u>	<u>2</u>	<u>3</u>	
Annual Total	\$633,002.21	\$1,258,088.24	
	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	\$25.799	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>	<u>Term</u>
Base Tariff Rate: Cat 3; Zone 1-2	\$4.7580	see Note 3	> 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>	<u>Term</u>
Base Tariff Rate: Cat 3; Zone 1-2	\$4.7580	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	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	
	Rate		
<u>Cost Components</u>	<u>(\$/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>	<u>Term</u>
Base Tariff Rate: Cat 3 FT-A Zone 1-1	\$3.8060	See Note 3	> 5 Years

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Purchased Gas Adjustment, June 2023
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	\$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

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

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, June 2023
Northern States Power Company
Demand Charge Detail Supporting Worksheet

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	5,450	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	\$246,975.47	

<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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Purchased Gas Adjustment, June 2023
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	\$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

June-23
Northern States Power Company

WACOG Worksheet

SUMMARY INFORMATION						
Firm	Interruptible	Combined	High	Low		
NNG	\$1.9429	\$1.9220	\$1.9721	\$2.0129	\$1.9023	
VGT	\$1.8610	\$1.9541	\$1.8776	\$1.8620	\$1.8599	
WBI	\$1.6462	---	\$1.6462	\$1.6462	\$1.6462	
ANR	\$2.0694		\$2.0694	\$2.0694	\$2.0694	
SYSTEM	---	---	\$1.9671	\$2.0694	\$1.6462	

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

[PROTECTED DATA BEGINS

1	\$1.9579				
2	\$1.9568				
3	\$1.9579				
4	\$1.9478				
5	\$1.9023				
6	\$2.0129				
7	\$1.9321				
8	\$1.9412				

Subtotal \$1.9429

NNG Interruptible

	\$1.861	Not included			
	\$1.943	Not included			
	\$1.995	Not included			
	\$2.014	Not included			

ANR Storage
FDD Storage
Vent Spot Pur
Demarc Spot Pur

Subtotal \$1.9220

GLT/VGT Firm

9	\$1.8620				
10	\$1.8599				

Subtotal \$1.8610

VGT Interruptible

	\$1.954	Not included			
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Emerson Spot Pur

Subtotal \$1.9541

WBI Firm

11	\$1.6462	Not included			
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Subtotal \$1.6462

PROTECTED DATA ENDS]

Jun-23
Northern States Power Company

WACOG Worksheet

WBI Interruptible		[PROTECTED DATA BEGINS]			
	\$0.0000	Not included			

Subtotal

ANR Firm					
		Not included			
		Not included			
		Not included			
12	\$2.0694	Not included			

Subtotal \$2.0694

NNG Other					
SMS	\$0.0208	Not included			

Subtotal

NSP Peakshaving					
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)	(2) - [(8) + (9)]		
	Storage Commodity Rate	Storage Reservation Charges	Storage Volume	Storage Commodity Cost	Total Cost	Gas Cost	Inject. Charge	Withdraw Charge
Storage Type	\$/Mcf	\$/Mcf	Mcf	\$	\$	\$/Mcf	\$/Mcf	\$/Mcf

STORAGE Firm		[PROTECTED DATA BEGINS]			
	\$7.2100	Not included			
	\$7.0700	Not included			
	\$7.3200	Not included			
Balancing Demand		Not included			
Storage Demand		Not included			

Subtotal #DIV/0!

PROTECTED DATA ENDS]

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

Hedging Adjustment/Opportunity Sales		[PROTECTED DATA BEGINS]			
Hedging Adj.	\$0.0000	Not included			
Opportunity Sales		Not included			

Subtotal #DIV/0!

PROTECTED DATA ENDS]

TOTAL					
ALL	\$1.9671	Not included	2,386,264	\$4,694,091	\$4,694,091

Schedule D

Northern States Power Company

June 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
Jan-23	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Feb-23	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Mar-23	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	0	0	\$0.00
Apr-23	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) 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) 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)
Receipts in Western Zone - -----			
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
Receipts in Central Zone - -----			
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
Receipts in Eastern Zone - -----			
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	TFE
Base Tariff Rates 1/				
Summer (Apr-Oct)	9.676	9.676	-0-	7.485
Winter (Nov-Mar)	<u>17.417</u>	<u>23.609</u>	<u>25.799</u>	<u>13.476</u>

COMMODITY RATES 2/ 3/						
TF12 Base, TF12 Var., TF5 & TFE		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>\$9.676</u>	<u>\$25.799</u>	<u>\$7.485</u>	<u>\$13.476</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	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	3.2345	1/
Maximum Capacity Charge	0.6731	1/
Injection Charge - Firm	0.0232	
Withdrawal Charge - Firm	0.0232	
Annual Rollover Charge	0.6731	1/

Rate Schedule PDD

Maximum Capacity Charge	0.6731	1/
Maximum Monthly Inventory Charge	0.1624	1/
Injection Charge	0.0232	
Withdrawal Charge	0.0232	
Annual Rollover Charge	0.6731	1/

Rate Schedule IDD

Maximum Monthly Inventory Charge	0.1624	1/
Injection Charge	0.0232	
Withdrawal Charge	0.0232	
Annual Rollover Charge	0.6731	1/

Rate Schedule ILD

Maximum Charge	11.7500	
Minimum Charge	0.5044	
Performance Obligation Charge	2.0000	

Rate Schedule SMS

Reservation Charge	4.2550	
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
Category 1 (Contract Term of Less than 3 Years)	
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
Category 2 (Contract Term of 3 Years to less than 5 Years)	
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
Category 3 (Contract Term of 5 or more Years)	
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."