



Northern Natural Gas Company
P.O. Box 3330
Omaha, NE 68103-0330
402 398-7200

February 1, 2024

Ms. Debbie-Anne Reese, Acting Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D.C. 20426

Re: Northern Natural Gas Company
Docket No. RP24-____-000
Periodic Rate Adjustments for Fuel, URR, and UAF Percentages and Electric
Compression Rate

Dear Ms. Reese:

Northern Natural Gas Company ("Northern") submits herewith for filing as part of its FERC Gas Tariff, Sixth Revised Volume No. 1 ("Tariff"), the following tariff sheets to be effective April 1, 2024:

SIXTH REVISED VOLUME NO. 1
Thirty Fifth Revised Sheet No. 54
Seventeenth Revised Sheet No. 61
Thirty Second Revised Sheet No. 62

Reason for Filing

The revised tariff sheets are being filed in accordance with Sections 53A and 53B of the General Terms and Conditions of Northern's Tariff, as further discussed herein. This filing updates:

- Field Area transportation fuel percentages;
- Market Area transportation fuel percentage;
- Storage fuel percentage;
- Storage under-recovery retainage percentage ("URR Percentage")¹
- Systemwide unaccounted for percentage ("UAF"); and
- Market Area electric compression rate.

True-up adjustments for all fuel, URR and UAF percentages and the Market Area electric compression commodity rate are included in the computations.

¹ The URR Percentage was established in the settlement of the rate case in Docket No. RP19-1353-009.

Although the proposed effective date of the tariff sheets is April 1, 2024, Northern respectfully requests that the Federal Energy Regulatory Commission ("FERC" or "Commission") issue an order by March 18, 2024. A number of shippers will be making supply arrangements for the entire summer season of April through October. Knowing the fuel retention percentages as far in advance of April 1 as possible will assist in their planning and contracting processes.

Summary of Changes to be effective April 1, 2024

A summary of the proposed changes compared to the 2023 PRA filing is as follows:

	<u>April 1, 2023²</u>	<u>April 1, 2024</u>
Section 1 (Permian)	0.72%	0.70%
Section 2 (Mid-Continent)	1.49%	1.64%
Section 3 (Market Area)	0.95%	0.56%
Storage Fuel	1.94%	1.19%
Storage URR Percentage	-0.13%	0.72%
UAF	-0.03%	0.08%
Electric Compression rate	\$0.0006	\$0.0006

Section 1 (Permian)

The proposed changes in the base and true-up components of the Permian fuel percentage, effective from April 1, 2024 through March 31, 2025, are shown in the following table.

	<u>April 1, 2023</u>	<u>April 1, 2024</u>	<u>Change</u>
Base fuel percentage	0.70%	0.69%	-0.01%
True-up percentage	0.02%	0.01%	-0.01%
Total	0.72%	0.70%	-0.02%

² The PRA percentages and rate in effect April 1, 2023, were accepted by FERC in a letter order issued February 15, 2023, in Docket No. RP23-416-000.

Section 2 (Mid-Continent)

The proposed changes in the base and true-up components of the Mid-Continent fuel percentage, effective from April 1, 2024 through March 31, 2025, are shown in the following table.

	April 1, 2023	April 1, 2024	Change
Base fuel percentage	1.44%	1.47%	0.03%
True-up percentage	0.05%	0.17%	0.12%
Total	1.49%	1.64%	0.15%

Section 3 (Market Area)

The proposed changes in the base and true-up components of the Market Area fuel percentage, effective from April 1, 2024 through October 31, 2024, are shown in the following table.

	April 1, 2023	April 1, 2024	Change
Base fuel percentage	0.73%	0.65%	-0.08%
True-up percentage	0.22%	-0.09%	-0.31%
Total	0.95%	0.56%	-0.39%

Storage Fuel

The proposed changes in the base and true-up components of the Storage fuel percentages are shown in the following table. Although the tariff sheet showing the Storage fuel percentage is effective April 1, 2024, the Storage fuel percentage applies only to Rate Schedule FDD injections from June 1, 2024 through October 31, 2024.

	April 1, 2023	April 1, 2024	Change
Base fuel percentage	1.65%	1.41%	-0.24%
True-up percentage	0.29%	-0.22%	-0.51%
Total	1.94%	1.19%	-0.75%

Storage URR Percentage

The proposed changes in the base and true-up components of the Storage URR percentage are shown in the following table. Although the tariff sheet showing the Storage URR percentage is effective April 1, 2024, the Storage URR percentage applies only to Rate Schedule FDD injections from June 1, 2024 through October 31, 2024.

	April 1, 2023	April 1, 2024	Change
Base fuel percentage	-0.13%	0.73%	0.86%
True-up percentage	0.00%	-0.01%	-0.01%
Total	-0.13%	0.72%	0.85%

UAF

The changes in the base and true-up components of the UAF percentage, effective from April 1, 2024 through March 31, 2025, are shown in the following table.

	April 1, 2023	April 1, 2024	Change
Base UAF percentage	0.01%	-0.01%	-0.02%
True-up percentage	-0.04%	0.09%	0.13%
Total	-0.03%	0.08%	0.11%

Market Area Electric Compression Rate

The changes in the base and true-up components of the Market Area Electric Compression commodity rate, effective from April 1, 2024 through March 31, 2025, are shown in the following table.

	April 1, 2023	April 1, 2024	Change
Base rate	0.0005	0.0005	0.0000
True-up rate	0.0001	0.0001	0.0000
Total	0.0006	0.0006	0.0000

Supporting Schedules

Supporting information and calculations for the proposed changes are attached hereto in Schedule Nos. 1 - 10.

Waiver

Northern respectfully requests that the Commission grant any and all waivers of its Regulations that it deems necessary to allow the tariff sheets to become effective April 1, 2024, but as noted above, Northern respectfully requests that the Commission issue an order by March 18, 2024.

Posting

Northern has served an electronic copy of this filing upon its customers and interested state regulatory commissions.

Marked Version

In accordance with Section 154.201 of the Commission's Regulations, Northern has submitted a marked version of the proposed tariff changes highlighting new additions and showing deletions by strikeout.

Motion

In accordance with Sections 154.7(a)(9) and 154.206(c) of the Commission's Regulations, Northern hereby moves to place the tariff sheets referenced herein in effect as of the end of any suspension period ordered by the Commission.

Data Processing Requirements

Northern submits this filing through FERC's electronic tariff filing process in a FERC-approved format.

Communication

It is requested that all correspondence and communications concerning this filing be served upon each of the following:

Luis Valdivia
Manager, Rates and Tariffs
Northern Natural Gas Company
1111 South 103rd Street
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(402) 398-7077
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Respectfully submitted,

/s/ Luis Valdivia

Luis Valdivia
Manager, Rates and Tariffs

Attachments

RATE SCHEDULES TF, TFX, GST, TI, & FDD

Fuel Percentages/Electric Compression Rates

	<u>Percentages</u>
FUEL PERCENTAGES:	1/ 2/
Market Area (including Out-of-Balance)	0.56%
Field Area	3/ 4/ 5/ 6/
UNACCOUNTED FOR PERCENTAGE (including Out-of-Balance)	0.08% 2/ 5/ 7/
FDD STORAGE FUEL	1.19%
FDD URR PERCENTAGE	0.72% 1/

	<u>Electric Compression</u>
COMMODITY RATES:	1/ 2/
Market Area	\$0.0006
Field Area	\$0.0000

1/ Northern will adjust its Fuel, UAF and URR percentages and electric compression commodity rates in accordance with Sections 53A and 53B, respectively, of the GENERAL TERMS AND CONDITIONS of this Tariff.

2/ There will be no Fuel, electric compression or UAF charges 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 Fuel, electric compression or UAF charges for transportation as set forth in Sheet Nos. 141,142C and 147.

3/ Fuel percentages shall be determined by MIDs for the Field Area shown in Sheet Nos. 61-62.

4/ Fuel charged in the Field and Market Areas for a pooling transaction or for processing plant transactions will not exceed the Fuel charged on a unified Field-to-Market transaction having the same initial Field receipt point and ultimate Market delivery point, i.e., the total Fuel collected for transactions that go into and out of pooling points or processing plants in either the Field Area or the Market Area will be no greater than the Fuel that would be collected on the total path between the original receipt point and the ultimate delivery point, subject to the Shipper(s) providing Northern the requisite information.

5/ Sheet No. 54A identifies the specific transportation transactions exempt from Fuel and UAF retention charges.

6/ The out-of-balance Fuel percentage for deliveries in MIDs 1-7 shall be the applicable Section 1 Transportation Fuel percentage, and for deliveries in MIDs 8-16B shall be the applicable Section 2 Transportation Fuel percentage.

7/ The UAF percentage utilizes the most recent twelve-month period ending December 31, 2023. For deliveries subject only to UAF, if the above UAF rate is negative, the UAF rate is zero; provided, however Northern will issue a volume credit on the Shipper's monthly imbalance statement equivalent to the negative UAF percentage for such deliveries during the period in which the UAF rate is less than zero.

In the event facilities have been abandoned, Northern shall have the right to file to reduce the applicable MID Fuel percentage(s) on a common basis for all transactions affected by the abandonment to reflect the reduction in use for the remainder of the PRA period. In the event such abandoned facilities (gas compressors) have been replaced with electric compressors installed after October 1, 1998, and Northern reduces the applicable MID Fuel percentages, Northern has the right to file to increase the applicable electric compression commodity rate.

MILEAGE INDICATOR DISTRICTS FUEL PERCENTAGES
DELIVERY DISTRICT

RECEIPT DISTRICT	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>7B</u>	<u>8</u>
1 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.70%	2.42%
2 ML Fuel	0.08%	0.08%	0.78%	0.78%	0.08%	0.08%	0.78%	0.70%	2.42%
3 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.70%	2.42%
4 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.08%	0.78%	0.78%	0.70%	2.42%
5 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.08%	0.78%	0.78%	0.70%	2.42%
6 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.70%	2.42%
7 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.70%	2.42%
7B ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.00%	1.72%
8 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
9 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
10 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
11 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
12 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
13 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
14 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
15 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
16A ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
16B ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.00%	1.72%
17 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.00%	1.72%

Note: Transportation Fuel percentages include the UAF percent as set forth in Sheet No. 54.

Northern will adjust its Fuel percentages in accordance with Section 53
 of the GENERAL TERMS AND CONDITIONS of this Tariff.

MILEAGE INDICATOR DISTRICTS FUEL PERCENTAGES											
<u>DELIVERY DISTRICT</u>											
RECEIPT DISTRICT		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16A</u>	<u>16B</u>	<u>17</u>
1	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
2	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
3	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
4	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
5	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
6	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
7	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
7B	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
8	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
9	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
10	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
11	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
12	ML Fuel	1.72%	1.72%	1.72%	0.08%	1.72%	0.08%	1.72%	1.72%	1.64%	2.28%
13	ML Fuel	1.72%	1.72%	1.72%	0.08%	1.72%	0.08%	1.72%	1.72%	1.64%	2.28%
14	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
15	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
16A	ML Fuel	1.72%	1.72%	1.72%	0.08%	0.08%	0.08%	0.08%	0.08%	1.64%	2.28%
16B	ML Fuel	1.72%	1.72%	1.72%	0.08%	0.08%	0.08%	0.08%	0.08%	0.00%	0.64%
17	ML Fuel	1.72%	1.72%	1.72%	0.08%	0.08%	0.08%	0.08%	0.08%	0.00%	0.64%

Note: Transportation Fuel percentages include the UAF percent as set forth in Sheet No. 54.

Northern will adjust its Fuel percentages in accordance with Section 53
 of the GENERAL TERMS AND CONDITIONS of this Tariff.

RATE SCHEDULES TF, TFX, GST, TI, & FDD

Fuel Percentages/Electric Compression Rates

	<u>Percentages</u>
FUEL PERCENTAGES:	1/ 2/
Market Area (including Out-of-Balance)	0. 56 ⁹⁵ %
Field Area	3/ 4/ 5/ 6/
UNACCOUNTED FOR PERCENTAGE (including Out-of-Balance)	-0.0 83 ³ % 2/ 5/ 7/
FDD STORAGE FUEL	1. 1 ⁹⁴ %
FDD URR PERCENTAGE	-0. 72 ¹³ % 1/

	<u>Electric Compression</u>
COMMODITY RATES:	1/ 2/
Market Area	\$0.0006
Field Area	\$0.0000

1/ Northern will adjust its Fuel, UAF and URR percentages and electric compression commodity rates in accordance with Sections 53A and 53B, respectively, of the GENERAL TERMS AND CONDITIONS of this Tariff.

2/ There will be no Fuel, electric compression or UAF charges 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 Fuel, electric compression or UAF charges for transportation as set forth in Sheet Nos. 141, 142C and 147.

3/ Fuel percentages shall be determined by MIDs for the Field Area shown in Sheet Nos. 61-62.

4/ Fuel charged in the Field and Market Areas for a pooling transaction or for processing plant transactions will not exceed the Fuel charged on a unified Field-to-Market transaction having the same initial Field receipt point and ultimate Market delivery point, i.e., the total Fuel collected for transactions that go into and out of pooling points or processing plants in either the Field Area or the Market Area will be no greater than the Fuel that would be collected on the total path between the original receipt point and the ultimate delivery point, subject to the Shipper(s) providing Northern the requisite information.

5/ Sheet No. 54A identifies the specific transportation transactions exempt from Fuel and UAF retention charges.

6/ The out-of-balance Fuel percentage for deliveries in MIDs 1-7 shall be the applicable Section 1 Transportation Fuel percentage, and for deliveries in MIDs 8-16B shall be the applicable Section 2 Transportation Fuel percentage.

7/ The UAF percentage utilizes the most recent twelve-month period ending December 31, 202~~3~~². For deliveries subject only to UAF, if the above UAF rate is negative, the UAF rate is zero; provided, however Northern will issue a volume credit on the Shipper's monthly imbalance statement equivalent to the negative UAF percentage for such deliveries during the period in which the UAF rate is less than zero.

In the event facilities have been abandoned, Northern shall have the right to file to reduce the applicable MID Fuel percentage(s) on a common basis for all transactions affected by the abandonment to reflect the reduction in use for the remainder of the PRA period. In the event such abandoned facilities (gas compressors) have been replaced with electric compressors installed after October 1, 1998, and Northern reduces the applicable MID Fuel percentages, Northern has the right to file to increase the applicable electric compression commodity rate.

MILEAGE INDICATOR DISTRICTS FUEL PERCENTAGES
DELIVERY DISTRICT

RECEIPT DISTRICT	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>7B</u>	<u>8</u>
1 ML Fuel	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.72%	2.18%
2 ML Fuel	0.00%	0.00%	0.69%	0.69%	0.00%	0.00%	0.69%	0.72%	2.18%
3 ML Fuel	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.72%	2.18%
4 ML Fuel	0.69%	0.69%	0.69%	0.69%	0.00%	0.69%	0.69%	0.72%	2.18%
5 ML Fuel	0.69%	0.69%	0.69%	0.69%	0.00%	0.69%	0.69%	0.72%	2.18%
6 ML Fuel	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.72%	2.18%
7 ML Fuel	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.72%	2.18%
7B ML Fuel	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.00%	1.46%
8 ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	1.49%	1.46%
9 ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	1.49%	1.46%
10 ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	1.49%	1.46%
11 ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	1.49%	1.46%
12 ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	1.49%	1.46%
13 ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	1.49%	1.46%
14 ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	1.49%	1.46%
15 ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	1.49%	1.46%
16A ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	1.49%	1.46%
16B ML Fuel	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.00%	1.46%
17 ML Fuel	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.00%	1.46%
1 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.70%	2.42%
2 ML Fuel	0.08%	0.08%	0.78%	0.78%	0.08%	0.08%	0.78%	0.70%	2.42%
3 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.70%	2.42%
4 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.08%	0.78%	0.78%	0.70%	2.42%
5 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.08%	0.78%	0.78%	0.70%	2.42%
6 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.70%	2.42%
7 ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.70%	2.42%
7B ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.00%	1.72%
8 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
9 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
10 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
11 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
12 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
13 ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%

14	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
15	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
16A	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	1.64%	1.72%
16B	ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.00%	1.72%
17	ML Fuel	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.78%	0.00%	1.72%

Note: Transportation Fuel percentages include the UAF percent as set forth in Sheet No. 54.

Northern will adjust its Fuel percentages in accordance with Section 53
of the GENERAL TERMS AND CONDITIONS of this Tariff.

MILEAGE INDICATOR DISTRICTS FUEL PERCENTAGES
DELIVERY DISTRICT

RECEIPT DISTRICT		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16A</u>	<u>16B</u>	<u>17</u>
1	ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.21%	3.13%
2	ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.21%	3.13%
3	ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.21%	3.13%
4	ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.21%	3.13%
5	ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.21%	3.13%
6	ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.21%	3.13%
7	ML Fuel	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.18%	2.21%	3.13%
7B	ML Fuel	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.49%	2.41%
8	ML Fuel	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.49%	2.41%
9	ML Fuel	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.49%	2.41%
10	ML Fuel	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.49%	2.41%
11	ML Fuel	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.49%	2.41%
12	ML Fuel	1.46%	1.46%	1.46%	0.00%	1.46%	0.00%	1.46%	1.46%	1.49%	2.41%
13	ML Fuel	1.46%	1.46%	1.46%	0.00%	1.46%	0.00%	1.46%	1.46%	1.49%	2.41%
14	ML Fuel	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.49%	2.41%
15	ML Fuel	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.49%	2.41%
16A	ML Fuel	1.46%	1.46%	1.46%	0.00%	0.00%	0.00%	0.00%	0.00%	1.49%	2.41%
16B	ML Fuel	1.46%	1.46%	1.46%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.92%
17	ML Fuel	1.46%	1.46%	1.46%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.92%
1	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
2	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
3	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
4	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
5	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
6	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
7	ML Fuel	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.42%	2.34%	2.98%
7B	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
8	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
9	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
10	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
11	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
12	ML Fuel	1.72%	1.72%	1.72%	0.08%	1.72%	0.08%	1.72%	1.72%	1.64%	2.28%
13	ML Fuel	1.72%	1.72%	1.72%	0.08%	1.72%	0.08%	1.72%	1.72%	1.64%	2.28%

14	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
15	ML Fuel	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.72%	1.64%	2.28%
16A	ML Fuel	1.72%	1.72%	1.72%	0.08%	0.08%	0.08%	0.08%	0.08%	1.64%	2.28%
16B	ML Fuel	1.72%	1.72%	1.72%	0.08%	0.08%	0.08%	0.08%	0.08%	0.00%	0.64%
17	ML Fuel	1.72%	1.72%	1.72%	0.08%	0.08%	0.08%	0.08%	0.08%	0.00%	0.64%

Note: Transportation Fuel percentages include the UAF percent as set forth in Sheet No. 54.

Northern will adjust its Fuel percentages in accordance with Section 53
of the GENERAL TERMS AND CONDITIONS of this Tariff.

NORTHERN NATURAL GAS COMPANY
PERIODIC RATE ADJUSTMENTS FOR FUEL
FUEL CONSUMED DATA - TRANSPORTATION AND STORAGE
JANUARY 2023 through DECEMBER 2023

SCHEDULE 1

Sec /1	MID Zone	Station Number	Station Name	Source: Measurement Data warehouse												Annual
				Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	
S1	MID 2	990003	PLYMOUTH SPRABERRY UNMETERED	4	4	4	4	4	4	4	4	4	4	4	4	48
S1	MID 2	990031	PLYMOUTH BLOW AND PURGE	2	2	2	2	2	2	2	2	2	2	2	2	24
S1	MID 3	961206	BAKERSFIELD COMPRESSOR STATION FUEL	43,397	38,765	42,434	40,392	40,319	33,900	38,530	38,556	35,958	39,279	39,088	40,477	471,095
S1	MID 3	961340	BHECS LEASED UNIT - SPRABERRY	13,725	12,156	14,029	13,232	13,390	13,135	12,181	13,235	12,932	13,416	13,076	13,457	157,964
S1	MID 3	961341	SPRABERRY COMPRESSOR TRANS	2,042	1,477	3,746	8,045	2,384	3,100	4,759	8,229	3,636	6,537	6,301	5,513	55,769
S1	MID 3	961342	SPRABERRY RECOMP STA TRANS	6,425	4,215	5,560	4,831	6,080	5,794	8,106	2,500	7,090	12,156	11,350	8,926	83,033
S1	MID 3	961343	SPRABERRY COMPRESSOR STATION FUELS	10,525	10,446	12,107	10,116	17,211	19,863	19,207	18,162	14,388	20,939	20,577	21,021	194,562
S1	MID 3	961601	SPRAYBERRY OFFICE FUEL	770	776	374	118			2			111	408	708	3,267
S1	MID 3	990004	SPRABERRY AND HOBBS PLAINS UNMETERED	348	14	14	538	14	326	595	14	179	159	1,419	346	3,966
S1	MID 3	990006	COYANOSA TO KERMIT 30 BLOW PURGE								85					85
S1	MID 3	990022	MITCHELL TO PLY TM BLOW AND PURGE	47	47	47	47	47	47	47	47	47	47	47	47	564
S1	MID 3	990034	SPRABERRY BLOW AND PURGE	156	142	190	133	352	144	719	141	126	119	133	72	2,427
S1	MID 3	990109	BAKERSFIELD COMPRESSOR UNMETERED	2	2	2	2	2	209	2	2	509	74	2	141	949
S1	MID 4	961571	KERMIT COMPRESSOR STATION	1,589	28	30	30	31	8,895	4,700	29	13	2,112	463		17,920
S1	MID 4	990106	KERMIT TURBINE STATION UNS	312		347			197	300			23,647	4,639		29,442
S1	MID 5	990043	HOBBS TO PLAINS 26 BLOW PURGE				1									1
S1	MID 6	960482	GAINES COUNTY CROSSOVER COMPRESSOR FUEL	45,633	38,964	46,635	38,987	40,581	36,955	41,426	40,746	48,106	48,634	64,391	67,392	558,450
S1	MID 6	961421	SEMINOLE COMP STA.TRAN.	57,597	48,662	54,412	45,847	56,100	11,551	5,036	64	26		45,077	35,642	360,014
S1	MID 6	961451	BROWNFIELD COMP.STA.-TRANS.	50,583	42,405	52,347	49,790	47,355	41,534	39,976	35,348	39,964	43,453	50,692	51,129	544,576
S1	MID 6	962145	PLAINS COMPRESSOR FUEL	1	6	1	4	1	1	7	10	4	1	1	1	38
S1	MID 6	990005	BROWNFIELD TO PLAINVIEW UNMETERED	13	19			26		6	53	52	26			195
S1	MID 6	990008	PLAINS 26 UNMETERED	9	20	9	35		9	9	31	20	9	9	9	169
S1	MID 6	990107	PLAINVIEW UNMETERED	810	1,501	1,292	1,299	1,450	1,242	1,508	1,019	1,216	973	644	1,016	13,970
S1	MID 6	990108	GAINES COUNTY CROSSOVER COMPRESSOR UNS	156		48		29	336			9	42	3		623
S1	MID 7	961401	PLAINVIEW COMP.STA.-TRANS.	44,006	40,083	49,856	46,491	36,624	13,235	10,601	5,525	23,047	40,804	51,141	53,708	415,121
S1	MID 7	961431	CLAUDE TURBINE FUEL	54,559	54,060	68,031	59,763	26,000	28,155	10,654	10,882	25,964	40,860	61,393	62,099	502,420
S1	MID 7	990028	CLAUDE UNMETERED	850	478	413	1,089	1,098	1,876	1,115	1,489	1,725	1,758	746	543	13,180
S1 Total				333,561	294,272	351,930	320,796	289,100	220,510	199,492	176,173	215,017	295,162	371,606	362,253	3,429,872
S2	MID 10	961201	SUNRAY FUEL COMP AUX BLDG	48,431	40,763	34,085	23,668	25,200	20,342	24,034	21,497	13,002	31,691	37,326	33,043	353,082
S2	MID 10	990019	SUNRAY C LINE UNMETERED	46	45	45	45	46	43	45	44	45	45	44	44	537
S2	MID 10	990030	SUNRAY UNMETERED	353	357	333	401	373	328	381	381	341	96	108	57	3,509
S2	MID 11	960448	BEAVER WAREHOUSE #3	38	44	42	30	10	6			4	22	30	48	274
S2	MID 11	960449	BEAVER EMPLOYEE BLDG.	320	291	323	152	62	8	2	4	6	76	163	214	1,621
S2	MID 11	960450	BEAVER OFFICE/TECH	395	375	368	240	76	32	24	24	100	256	364	2,278	
S2	MID 11	960466	BEAVER PLANT BOILER FUEL	255	222	219	114	90	93	84	90	105	141	186	174	1,773
S2	MID 11	961020	BEAVER PLANT BLDG 1 ENGINES 14-18	8,180	8,784	7,749	6,937	9,814	6,993	1	2,142	1,052	1,647	11,536	16,164	80,999
S2	MID 11	961022	BEAVER PLANT BLDG 2	75,270	55,493	56,765	53,807	33,470	21,734	4	29	2,300	2,879	26,152	36,559	364,462
S2	MID 11	961049	BEAVER PLANT AUX BU GEN FUEL	2	124	16	24	38	9	3	2	1	2	8	2	231
S2	MID 11	961519	BEAVER PLANT BUILDING 1 HEATER FUEL	890	844	957	457	4					45	742	957	4,896
S2	MID 11	961520	BEAVER PLANT BUILDING 2 HEATER FUEL	338	324	381	185	20	20	19	19	20	38	209	392	1,965
S2	MID 11	990012	BEAVER PLANT UNMETERED	1,950	2,029	1,941	1,925	2,266	1,980	1,953	1,870	1,873	1,866	1,994	1,954	23,601
S2	MID 13	961117	CUT STATION HEATER	60	62	38	50	30	20				36	50	48	394
S2	MID 13	961118	MULLINVILLE UNIT 27 FUEL	80,384	71,461	78,641	68,767	66,939	32,817	5,344	20,032	22,560	63,990	76,810	67,124	654,869
S2	MID 13	961119	MULLINVILLE PLANT HEATER FUEL	20	16	14	12	4	6	10	6	8	8	10	12	126
S2	MID 13	961120	MULLINVILLE DOMESTIC FUEL	106	96	78	36	4					18	72	84	496
S2	MID 13	961122	MULL#2 MEAS STA-#2 STA FU	34,595	27,379	24,136	20,185	3,582	19,337	27966	20759	31633	14,046	18,582	20,082	262,282
S2	MID 13	961123	MULL#3-AUX&BOILER FUEL	2,973	2,626	2,716	749	23	2		3	3	725	2,496	2,992	15,308
S2	MID 13	961126	DODGE CITY TBS HEATER FUEL	752	838	842	660	457	392	255	355	273	494	630	733	6,681
S2	MID 13	990010	MULLINVILLE UNMETERED	855	892	754	886	1,220	925	787	1,380	804	785	815	726	10,829
S2	MID 13	990023	MULLINVILLE TRANS PURGE VENT	59	56	121	119	56	54	54	57	55	59	55	56	801
S2	MID 14	961582	SUBLETTE DOMESTIC FUEL GAS	46	252	132	61	24	6	1			22	113	141	799
S2	MID 14	990009	SUBLETTE UNMETERED	32	28	31	30	31	30	31	31	31	32	31	30	368
S2	MID 15	901523	GARDEN CITY KS 1C HEATER FUEL	468	462	449	312	260	130	88	100	84	179	327	465	3,324
S2	MID 15	961072	HOLCOMB DOMESTIC FUEL	81	66	43	15	4					14	44	114	381
S2	MID 15	990035	HOLCOMB PLANT TRANS LINE EAST	17	15	18	16	17	16	17	16	17	16	15	16	196
S2	MID 16 A	961039	BUSHTON COMP STA UNIT 33	72,753	69,348	74,498	73,525	73,049	58,273	69,447	42,167	52,771	66,652	76,216	81,189	809,888
S2	MID 16 A	961040	BUSHTON AUX FUEL #2 3 4 & 5	7	1	2	1	1	3	2	9	1	1	1	1	30
S2	MID 16 A	961042	BUSHTON ENGINE ROOM 2 ENG 23 24 25	4,869	8,478	8,513	8,842	10,779	5,423	18,099	11,416	11,119	10,072	11,794	6,971	116,375
S2	MID 16 A	961043	BUSHTON COMP#3 FUEL STATION	5,500	8,436	16,464	6,833	2,384	170	58	11,975	10,962	7,415	6,252	6,148	82,597
S2	MID 16 A	961107	MACKSVILLE UNIT 1 STA FUEL									31				31
S2	MID 16 A	961108	MACKSVILLE UNIT 2 STA FUEL		4,785		3					32				4,820
S2	MID 16 A	961109	MACKSVILLE UNIT 3 STA FUEL		5,896			5				38				5,939
S2	MID 16 A	961110	MACHSVILLE UNIT 4 STA FUEL		5,908							43				5,951
S2	MID 16 A	961112	MACKSVILLE UNIT 5 STA FUEL	82,964	36,695	5,533	2,757	4,546				24			14	132,533
S2	MID 16 A	961224	TESCOTT BLDG 2 DOMESTIC FUEL	1,383	1,266	979	415	44	26	26	22		294	684	1,167	6,306

NORTHERN NATURAL GAS COMPANY
PERIODIC RATE ADJUSTMENTS FOR FUEL
FUEL CONSUMED DATA - TRANSPORTATION AND STORAGE
JANUARY 2023 through DECEMBER 2023

SCHEDULE 1

Sec /1	MID Zone	Station Number	Station Name	Source: Measurement Data warehouse												Annual
				Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	
S2	MID 16 A	961225	TESCOTT UNIT 5 FUEL	4,710	13,446		243	431		4				2,863		21,697
S2	MID 16 A	961624	TESCOTT STATION GENERATOR FUEL	10	4	6	4	8	5	5	5		4	5	10	70
S2	MID 16 A	961627	TESCOTT UNIT 6 COMP FUEL	10,943	19,776	29,348		187				61	1,320	2,592	4,152	68,379
S2	MID 16 A	961966	MACKSVILLE TBS HEATER FUEL	13	12	8	1						2	4	10	50
S2	MID 16 A	962072	JETMORE TBS (HEATER FUEL)	16	14	12	8	4					6	10	18	88
S2	MID 16 A	962392	BUSHTON TREATER PLT. FUEL	9,997	8,007	8,628	8,179	8,454	2,661				1,258	9,581	8,931	65,696
S2	MID 16 A	990014	BUSHTON BLOWDOWN PURGE COMPRESSOR	3,107	2,434	2,223	1,656	1,832	1,969	2,148	1,506	3,096	1,504	2,116	2,260	25,851
S2	MID 16 A	990025	TESCOTT DIST TRANS OP	398	436	214	227	202				68	106	326	112	2,089
S2	MID 16 A	990027	MACKSVILLE UNMETERED PLT	3,359	3,354	3,641	1,684	919	1,137	1,068	1,078	1,301	1,528	2,899	3,104	25,072
S2	MID 16 A	991002	MACKSVILLE FLARE FROM CONDENSATE TANK	2,353	1,373	1,188	1,303	2,452	2,048	1,142	1,427	1,373	1,914	1,568	1,411	19,972
S2	MID 16 A	991003	MACKSVILLE FUEL GAS HEATER	311	222	154	64	28	28	8	8	8	16	20	32	899
S2	MID 8	961441	PAMPA TURBINE (KB) FUEL	32,050	27,248	46,602	56,895	44,176	19,209	21,354	3,729	5,986	23,530	53,808	64,834	399,421
S2	MID 8	990029	PAMPA TURBINE	969	822	535	1,205	1,578	940	577	453	1,542	2,821	1,765	1,379	14,586
S2	MID 9	990013	N02 06 UNMETERED			40		44		14						98
S2	MID 9	990015	ROGER MILLS CO TRANSMISSION 4130	42	42	42	42	42	42	47	47	47	47	42	42	524
S2 Total				492,670	431,947	409,867	343,770	295,285	197,257	175,102	142,683	163,171	237,562	351,350	364,380	3,605,044
S3	MID 17	950901	Wrenshall VAPORIZER FUEL-FUEL GAS	2	3,166	2,919	5,498									11,705
S3	MID 17	950902	Wrenshall A TURBINE FUEL GAS			20,186	27,485	13,747						16399		77,817
S3	MID 17	950903	Wrenshall B TURBINE FUEL GAS			19,650	26,583	13,239						15,961		75,433
S3	MID 17	951901	GARNER LNG	6,901	5,757	5,540	1,190	141	83	90	63	5	4,586	1,279	1,455	27,090
S3	MID 17	960036	MINNEAPOLIS 1D HEATER	3,597	3,540	3,900	1,516	158	111	1,136	298	1,372	2,214	2,543	2,650	23,035
S3	MID 17	960479	ALBERT LEA COMPRESSOR STATION FUEL	60,015	41,554	48,429	40,310	24,331	22,291	8,020	18,082	585	17,911	13,122	41,572	336,222
S3	MID 17	960480	ALBERT LEA COMPRESSOR BUILDING HEAT	196	84	4	112						44	44	164	648
S3	MID 17	960481	ALBERT LEA COMP FUEL GAS METER	1,452	1,071	1,241	906	513	400	166	259	13	373	287	1039	7,720
S3	MID 17	960483	LAKE MILLS COMPRESSOR STATION FUEL	430	2,743	10,090	712	912	3	2,295	10	36	24	4,188	95	21,538
S3	MID 17	961001	OGDEN COMPRESSOR STATION BUILDING 4 FUEL	69,936	62,138	51,373	64,281	55,427	54,861	53,889	39,312	62,125	55,480	60,746	62,311	691,879
S3	MID 17	961009	BEATRICE COMPRESSOR UNIT 29	76,478	69,112	72,418	2,937	2,770	25,491	756	34,233	33,062	75,554	24,390	48,861	466,062
S3	MID 17	961010	BEATRICE 3-28 TURBINE FUEL	34,063	39,017	49,484	16,196	3,061	4,461	1,203	6,003	1,088	10,117	48637	10018	223,348
S3	MID 17	961012	BEATRICE # 2 UNITS 19-25 PLANT	471	2,223	1,827		5	1,564		4	104		1,571	1,413	10,319
S3	MID 17	961017	BEATRICE PLANT #1 BOILER FUEL	3,997	3,876	4,299	3,124						2,692	3,554	7,472	29,014
S3	MID 17	961018	BEATRICE PLANT DOMESTIC GAS	155	137	135	64	5	1		1	1	51	95	231	876
S3	MID 17	961023	SOUTH OMAHA HEATER FUEL	249	183	186	57	9	6		6	6	36	96	192	1,032
S3	MID 17	961051	CLIFTON COMP FUEL UNIT 27	4		1,183	12			8	286	12	1,005	369	267	3,146
S3	MID 17	961054	CLIFTON AUX AND DOMESTIC	1,410	1,186	1,039	447	74	38	18	26	50	358	813	1,098	6,557
S3	MID 17	961056	CLIFTON TURB. BOILER	1,182	1,099	1,235	284						186	1,093	1,172	6,251
S3	MID 17	961057	CLIFTON BOILER BLDG. #3 (RC 4031)	1,308	1,138	1,233	279						201	1,182	1,171	6,512
S3	MID 17	961059	CLIFTON COMP FUEL UNIT 28	4		121	455			16	33	15	992	330	18	1,984
S3	MID 17	961060	CLIFTON COMP FUEL UNIT 29	4		606	304			20	6	7	1,064	9	237	2,257
S3	MID 17	961061	CLIFTON COMP FUEL UNIT 30	8,905	15,459	7,740	25,610	810			5,327	5,908	3,425	23,625	5,465	102,274
S3	MID 17	961062	CLIFTON COMP FUEL UNIT 31	42,461	48,085	61,523	19,804	4,290	497			3,768	14,787	16,981	35,624	247,820
S3	MID 17	961133	OAKLAND COMP #3 ENGINE FUEL	11,170	14,710	17,120	13,794	1,679	207	2,102			5,383	10,292	6,003	82,460
S3	MID 17	961134	OAKLAND COMP STA AUX FUEL	1	2	9	6	3	4	23	18	3	2	2	12	85
S3	MID 17	961135	OAKLAND #1 DOMESTIC FUEL	106	86	88	42	8	2		2	2	28	60	80	504
S3	MID 17	961136	OAKLAND #2 PIPELINE FUEL	345	309	300	129	42	6	6	6	9	117	225	319	1,813
S3	MID 17	961137	OAKLAND #3 DOMESTIC FUEL	2,344	3,018	2,574	704	153	3	3		3	1,072	1,520	3,500	14,894
S3	MID 17	961138	GUTHRIE CENTER COMP FUEL	2,435	6,175	12,881	9,378	925	4,474	931	2,957	4,427	12,129	9,119	8,723	74,554
S3	MID 17	961139	OAKLAND UNIT #20 BLDG 4	1,001	15,677	20,035	11,771	972	1,868				3,323	20,617		75,264
S3	MID 17	961141	OGDEN AUXILIARY FUEL	4,185	3,791	4,003	2,714	219	30	9			93	2,831	2,993	20,868
S3	MID 17	961142	OGDEN PLANT 2 FUEL	19,620	26,288	25,227	12,093	29,295	20,084	9,418	18,931	10,903	23,040	9,413	14,433	218,745
S3	MID 17	961143	OGDEN PLANT 3 FUEL	6,516	835	11,802				4,276	28,886	34,800	34,580	41,922	7,482	171,099
S3	MID 17	961152	PALMYRA COMPRESSOR BLDG Unit 18	5,046	75	878	2,580	1,596		2	691	7,418	7,480	117		25,883
S3	MID 17	961153	PALMYRA COMPRESSOR BLDG Unit 19	2,294	2,093	5,246	5,260	1,048	2,628	8,588	5,455	7,377	4,401	6,915	1,762	53,067
S3	MID 17	961154	PALMYRA COMPRESSOR BLDG Unit 20	452	2,576	3,299	1,840	3,311	3,277	8,851	7	2,157	2,839	4,302	3,815	36,726
S3	MID 17	961156	PALMYRA #1 BOILER FUEL	2034	1902	1,740	66						318	2,126	1,771	9,957
S3	MID 17	961158	PALMYRA OFFICE FUEL	24	20	18	8						6	14	16	106
S3	MID 17	961159	PALMYRA WAREHOUSE FUEL	169	154	157	68						42	124	151	865
S3	MID 17	961160	PALMYRA FUEL - WORKSHOP BLDG.	60	211	42	4							10	49	376

NORTHERN NATURAL GAS COMPANY
PERIODIC RATE ADJUSTMENTS FOR FUEL
FUEL CONSUMED DATA - TRANSPORTATION AND STORAGE
JANUARY 2023 through DECEMBER 2023

SCHEDULE 1

Sec /1	MID Zone	Station Number	Station Name	Source: Measurement Data warehouse												Annual
				Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	
S3	MID 17	961161	PAULLINA COMP.STA.-TRANS	10,531	8,890	8,891	1,153									29,465
S3	MID 17	961162	PALMYRA FUEL - WELDING SHOP	34	36	24	10							28	24	160
S3	MID 17	961163	PALMYRA FUEL - EQUIPMENT BLDG.	65	56	62	18						12	36	42	291
S3	MID 17	961165	PALMYRA COMPRESSOR BLDG Unit 21	8,297	5,866	5,518	2,745	6,445	2,053	2,708	1,772	8,147	3,519	4,343	1,637	53,050
S3	MID 17	961166	PALMYRA COMPRESSOR BLDG Unit 22	3,143	1,181	1,615	4,204	2,911	1,654	332	280	3,541	1,521	2,514	2,420	25,316
S3	MID 17	961167	PALMYRA COMPRESSOR BLDG Unit 23	4,753	5,088	3,276	5,791	3,665	312	2	3171	3009	5,572	6,933	628	42,200
S3	MID 17	961168	PALMYRA COMPRESSOR BLDG Unit 24	4,857	3,590	2,001	9374	6455	2757	623	1,928	737	8,483	5,330	3,801	49,936
S3	MID 17	961169	PALMYRA COMPRESSOR BLDG Unit 25	9,238	5,012	3,771	8,446	11,093	5,634	4,513	2,735	963	429	3,589	1,242	56,665
S3	MID 17	961170	PALMYRA COMPRESSOR BLDG Unit 26	12,679	44,784	60,954				19			14,967	18,276	63,104	214,783
S3	MID 17	961175	PALMYRA COMPRESSOR BLDG Unit 29	27,599	18,809	17,760	26,509	8,913	18,525	8,517	21,751	9,918	27,687	26,148	10,337	222,473
S3	MID 17	961176	HOMER COMPRESSOR STATION FUEL	20,267	18,429	19,651	18,006	18,167	17,064	17,703	18,226	17,177	19,061	18,793	19,474	222,018
S3	MID 17	961177	FREMONT COMPRESSOR STATION FUEL	18,009	8,588	5,499	91	1	1	47	2	1	1,883	7,049	26,798	67,969
S3	MID 17	961178	WILLOW LAKE COMPRESSOR STATION	3007	2771	1,384	2,279	162	231	506	1,685	629	1,718	3,592	4,041	22,005
S3	MID 17	961179	LA CRESCENT COMPRESSOR HEATER FUEL	62	56	62	60	14					10	60	62	386
S3	MID 17	961180	PAULLINA COMPRESSOR BUILDING FUEL	146	139	129	6									420
S3	MID 17	961181	SO SIOUX CITY COMP STA-TRANS	187	178	149	68	26	40		2		60	81		791
S3	MID 17	961230	VENTURA DOMESTIC FUEL	447	310	338	191	48	6	6	4		88	238	325	2,005
S3	MID 17	961231	VENTURA COMPRESSOR STA TRANS 11	1,890	2,295	202	710						3	196		5,296
S3	MID 17	961232	VENTURA COMPRESSOR STA TRANS 12	1,813	1,080	3,331	1,232	31					5	179	306	7,977
S3	MID 17	961233	VENTURA COMPRESSOR STA TRANS 13	866	1,260	623	75						5	255		3,084
S3	MID 17	961234	VENTURA COMPRESSOR STA TRANS 14	6,029	4,959	13,684	8,146	299					11	1,243	3,237	37,608
S3	MID 17	961235	VENTURA COMPRESSOR STA TRANS 15	5,840	13,440	16,791	17,229	533					4	1,199	2,537	57,573
S3	MID 17	961236	VENTURA COMPRESSOR STA TRANS BF 16	3,404	2,923	2,757	1,004	54					95	1,863	2,956	15,056
S3	MID 17	961237	VENTURA A LINE HEATER FUEL	849	691	888	638	465	548	566	363		98	608	713	6,427
S3	MID 17	961243	WATERLOO COMPRESSOR FUEL	36,309	34,724	17,525	3,168	20,753	11,537		13		1,112	4,085	34,445	163,671
S3	MID 17	961246	EARLVILLE CSO STATION EAST LEG			22,894	41									22,935
S3	MID 17	961248	FARIBAULT MN COMPRESSOR STATION	89,110	74,699	81,076	65,370	57,968	64,690	59,329	40,449	32,255	47,479	60,188	75,883	748,496
S3	MID 17	961251	FARMINGTON COMP FUEL UNITS 1-7	34,795	33,400	37,798	25,956	9,930	10,019	4,075	2,523	12,580	9,006	20,149	27,741	227,972
S3	MID 17	961252	CARVER COMPRESSOR STATION FUEL	5,790	9,699	909	200	64	35	35	43	58	275	1,222	1,273	19,603
S3	MID 17	961254	HINCKLEY COMPRESSOR STATION FUELS	5,532	7,208	268	13,361	6,138	33	5,698	14,097	38	5,819	11,287	3,307	72,786
S3	MID 17	961261	WATERLOO COMP.STA.-TRANS.	168	150	138	96	6	6				66	96	120	846
S3	MID 17	961268	GARNER CONTROLLER GAS	185	171	303	302	192	205	180	216	216	216	334	313	2,833
S3	MID 17	961381	NO.BRANCH COMP. STA.-TRANS	10,735	11,829	10,086	17,388	8,452	6,377	5,367	7,144	6,571	6,772	6,153	7,839	104,713
S3	MID 17	961382	HUGO COMP FUEL	2,323	2,168	1,736	7,437			1	2,706	7		1,926	3	18,307
S3	MID 17	961461	CARLTON COMP ENGINE FUEL 1&2	16,745	15,560	14,898	1,991					11	10,633	18,295	15,730	93,863
S3	MID 17	961471	OWATONNA COMP STA TRANS	39,130	30,928	35,354	25,232	1,577	373	744	525	723	138	12,514	12,618	159,856
S3	MID 17	961561	GALENA COMPRESSOR STATION	21,985	22,413	7,726	23,701	2,856	4,720	645		3,355	18,324	22,467	18,440	146,632
S3	MID 17	961562	GALENA COMP. AUXILIARY	487	419	468	215	58					205	185	391	2,428
S3	MID 17	961565	BELLVILLE COMPRESSOR PLANT	5,055	1,595	8,681	15,736	18,719	5,820	7,066	7,497	9,634	28		11,189	91,020
S3	MID 17	961610	EAST WAKEFIELD COMPRESSOR STATION FUEL	10,794	12,303	12,767	3,516	2,745	8,216	5,630	163	603	2,413	7,723	8,399	75,272
S3	MID 17	961961	CARLTON WHSE FUEL										111	105	137	353
S3	MID 17	969044	REDFIELD FUEL UNIT 7	2,701	4,129	6,756	5,029	4,075	2,847	3	2	100				25,642
S3	MID 17	990017	HUBBARD COMPRESSOR UNMETERED	510	441	470	196	49	70		37	2	145	277	391	2,588
S3	MID 17	990018	EARLVILLE COMPRESSOR UNMETERED	424	377	683	490	115	80	75	77	40	422	379	395	3,557
S3	MID 17	990024	CLIFTON DIST TRANSMISSION	60	52	51	17,369	82	76	1,056	15,121	1,417	44	51	56	35,435
S3	MID 17	990032	GARNER LNG	331	108	98	123	169	558	2,813	6,197	29,996	32	122	114	40,661
S3	MID 17	990037	CLIFTON DISTRICT TRANS SOUTH	2,975	2,165	2,517	2,204	1,236	1,508	1,171	1,887	1,964	3,162	2,493	3,357	26,639
S3	MID 17	990046	ALBERT LEA COMPRESSOR UNM GAS LOSS	203	98	91	211	284	502	205	1,242	1,413	538	292	4	5,083
S3	MID 17	990052	CARLTON GAS UNMETERED	13,850	61,433	3,568	3,428	7,619	7,216	7,108	7,009	6,753	8,847	11,193	11,647	149,671
S3	MID 17	990053	WRENSHALL UNMETERE 504	308	282	914	356	298	522	331	240	234	274	4,805	298	8,862
S3	MID 17	990054	OWATONNA UNMETERED VENT 504	10,066	8,917	8,314	6,228	4,722	2,945	4,551	4,836	5,494	4,106	6,039	6,655	72,873
S3	MID 17	990055	FARIBAULT COMPRESSOR UNS	54	54	585	53	53	54	54	53	54	54	54	54	1,176
S3	MID 17	990056	SOUTH OMAHA UNMETERED T	2,295	2,041	1,972	1,475	1,130	1,156	1,139	6,091	1,166	1,184	1,360	1,766	22,775
S3	MID 17	990057	OAKLAND UNMETERED GAS	3,461	3,881	4,117	3,277	2,950	2,683	2,432	2,585	2,855	3,274	4,831	4,155	40,501
S3	MID 17	990058	SO SIOUX CITY UNMETERED	3,766	4,593	4,888	2,228	961	855	687		602	1,608	2,161	3,016	26,284
S3	MID 17	990059	VENTURA SOUTH UNMETERED	2,109	1,821	1,743	1,955	1,552	1,541	5,341	1,616	13,562	1,793	2,688	2,314	38,035
S3	MID 17	990060	NEGUANEE UNMETERED HTR AUX FUEL 5	4,570	4,873	4,343	4,091	3,282	2,103	1,920	2,026	1,671	2,624	3,375	3,517	38,395
S3	MID 17	990061	WATERLOO DOWNSTREAM HEATER FUEL	2,129	755	743	750	2,653	2,293	2,294	2,328	2,394	3,489	4,725	5,031	29,584
S3	MID 17	990062	FARMINGTON UNMETERED VENT RC 4008	17,403	13,585	13,964	8,801	5,100	279	119	3,195	4,250	8,277	11,142	12,161	98,276
S3	MID 17	990063	NORTH BRANCH HEAT AUX FUEL RC 4004	1,000	643	694	873	40	55	52		57	152	374	404	4,397
S3	MID 17	990064	NORTH BRANCH UNMETERED VENT RC4004	1,259	1,098	977	1,039	1,130	1,085	1,012	973	966	1,025	971	968	12,503

NORTHERN NATURAL GAS COMPANY
PERIODIC RATE ADJUSTMENTS FOR FUEL
FUEL CONSUMED DATA - TRANSPORTATION AND STORAGE
JANUARY 2023 through DECEMBER 2023

SCHEDULE 1

Sec /1	MID Zone	Station		Source: Measurement Data warehouse												
		Number	Station Name	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Annual
S3	MID 17	990065	NORTH BRANCH UNMETERE HEAT AUX RC40	28,166	25,281	22,371	13,723	5,262	2,790	2,460	3,021	2,583	7,434	13,487	15,250	141,828
S3	MID 17	990066	POPPLE CREEK UNMETERED	108	94	134	143	23	48			1				551
S3	MID 17	990067	VENTURA NORTH UNMETERED	4,927	4,011	4,636	3,604	4,334	2,831	3,959	3,754	2,751	3,041	3,680	3,705	45,233
S3	MID 17	990068	PLATTEVILLE UNMETERED	4,720	4,472	4,692	3,159	1,372	3,571	3,614	3,862	4,184	5,632	7,250	8,896	55,424
S3	MID 17	990069	CLARK SD UNMETERED	1,868	1,568	3,124	1,253	937	1,065	994	987	860	1,251	1,426	1,649	16,982
S3	MID 17	990071	OGDEN GAS UNMETERED 504 RC4010	1919	1177	1,306	1,203	1,255	1,220	1500	1,390	1,420	1,241	2,743	1,236	17,610
S3	MID 17	990072	OGDEN UNMETERED DETAIL 547 RC4010	901	1,253	1,128	828	860	730	661	667	670	855	940	1,204	10,697
S3	MID 17	990073	WATERLOO DOWNSTREAM PIPELINE GAS LO	2,536	1,897	2,249	1,883	1,397	1,640	1,426	1,415	1,412	1,420	1,325	1,353	19,953
S3	MID 17	990074	LACROSSE BRANCHLINE COMPRESSOR	1,278	1,396	84	83	83	85	85	85	85	223	112	138	3,737
S3	MID 17	990075	SPRING GREEN COMPRESSOR UNMETERED	230	227	224	3						222	230	224	1,360
S3	MID 17	990076	HUGO MN COMP BLOW DOWN	732	416	1134	585	28	30	172	421	163	30	170	454	4,335
S3	MID 17	990077	BEATRICE UNMETERED	1,578	1,623	1,703	3,987	800	605	576	571	2,467	788	1,105	1,394	17,197
S3	MID 17	990078	OAKLAND UNMETERED GAS USES	1,203	1,096	1,064	7,667	8,549	928	1,005	761	941	985	1,038	1,082	26,319
S3	MID 17	990079	WATERLOO COMPRESSOR UNMETERED	687	785	684	379	793	1,776	206	1,131	458	267	521	468	8,155
S3	MID 17	990080	WELCOME NORTH UNMETERED GAS VENTED	4,513	1,743	2,412	1,657	1,332	1,135	1,932	1,919	1,314	1,630	3,359	1,964	24,910
S3	MID 17	990081	NORTH BRANCH UNMETERED VENTED RC400	379	556	375	496	378	391	816	8,312	362	389	1,757	363	14,574
S3	MID 17	990082	WILLMAR UNMETERED	10,619	9,292	9,113	6,746	5,256	4,575	4,949	4,969	4,853	7,381	9,070	9,538	86,361
S3	MID 17	990083	PAULLINA UNMETERED VENTED GAS RC 42	5,823	6,096	5,489	4,412	3,628	6,342	4,291	3,678	5,352	4,476	4,960	5,271	59,818
S3	MID 17	990084	PALMYRA UNMETERED PIPELINE RC4024	1,061	978	675	1,286	6,318	561	3,169	2,656	1,532	3,557	936	839	23,568
S3	MID 17	990085	OGDEN UNMETERED VENTED RC4012	2,208	2,192	2,168	2,650	2,257	5,918	2,565	2,431	3,056	4,703	2,416	2,286	34,850
S3	MID 17	990086	HARRISBURG UNMETERED	7,605	6,231	7,013	2,744	1,819	1,410	1,333	1,136	1,204	1,867	3,205	3,884	39,451
S3	MID 17	990087	PLATTEVILLE COMPRESSOR UNMETERED	1,986	3,039	2,396	1,966	2,544	2,273	2,388	2,591	2,275	2,022	2,067	2,038	27,585
S3	MID 17	990088	PALMYRA UNMETERED PIPELINE RC4029	653	1,809	882	340	2,765	59	21	255	94	532	599	701	8,710
S3	MID 17	990089	WELCOME MEAS STA 1 NB INTER UNS	34		34	34	34	34	167	34	34	166	34	34	639
S3	MID 17	990090	LACROSSE SYSTEM ZONE 5 UNMETERED	2,158	1,893	1,824	1,314	1,111	773	243	810	804	1,303	1,979	2,228	16,440
S3	MID 17	990091	MAINLINE HOOPER SOUTH	1,564	1,577	1,092	621	292	307	157	705	261	166	699	843	8,284
S3	MID 17	990092	WATERLOO UPSTREAM HEATER FUEL	2,442	1,050	1,060	1,972	3,980	3,619	3,819	3,844	3,829	4,626	5,464	6,156	41,861
S3	MID 17	990093	WELCOME SOUTH UNS SECTION 3 SEG 2	2,175	3,684	3,754	2,908	2,075	1,952	1,225	1,243	2,038	2,932	1,893	3,550	29,429
S3	MID 17	990097	PIERZ COMPRESSOR UNMETERED	319	369	352	353	453	425			405	355			3,031
S3	MID 17	990098	ALEXANDRIA COMPRESSOR UNMETERED	97	89	3,900	79	62	61			1	49	68		4,406
S3	MID 17	990099	ST CLOUD PIPELINE UNMETERED	7,613	7,027	6,596	6,178	1,757	1,669	1,195	1,116	1,313	1,545	2,030	2,309	40,348
S3	MID 17	990100	OGDEN UNMETERED TBS HEATERS RC4012	5,922	9,503	8,480	6,556	6,133	5,500	276	5,460	5,410	7,187	8,353	9,657	78,437
S3	MID 17	990101	WATERLOO UPSTREAM PIPELINE UNS	1,221	1,123	1,116	1,127	1,136	1,173	1,201	1,192	1,190	1,196	1,118	1,142	13,935
S3	MID 17	990103	HOMER COMPRESSOR STATION UNS			148	41	43	64	67	211	107	107	21		809
S3	MID 17	990104	FREMONT COMPRESSOR STATION UNS	20		40	20	20	20	40	20	20	107	141	169	637
S3	MID 17	990112	CARVER COMPRESSOR UNMETERED		45		125								35	205
S3	MID 17	990114	HINCKLEY UNMETERED COMPRESSOR GAS LOSS	59	59		28	61	59	27	27	358	61	59	123	921
S3	MID 17	961306	CUNNINGHAM UGS LIQ.PLT FU	163	150	174	158	146	141	132	136	133	146	161	178	1,818
S3	MID 17	964004	MACKS 5-CUNN STO SER			11,710	5,422	811							790	18,733
S3	MID 17	964096	CUNN STORAGE COMP.UNIT #8 FUEL	1,683	1,042	1,302	2,706	817	2,309	1,019	2,141	3,066	1,180	2,738	2,482	22,485
S3	MID 17	964097	CUNN STORAGE COMP.UNIT #9 FUEL	2,148	1,218	1,683	3,770	2,260	3,078	5,007	1,516	1,300	1,746	2,998	1,961	28,685
S3	MID 17	964101	CUNNINGHAM UGS - PLANT*	1,525	1,459	1,687	1,417	1,056	673	461	553	673	986	1,212	1,361	13,063
S3	MID 17	990000	CUNNINGHAM UGS FIELD SEPERATORS	2	7	14	13	1	0		3	2	8	4	7	61
S3	MID 17	990011	CUNNINGHAM UNMETERED GATH	2,787	314	497	1,634	661	1,035	367	884	996	1,933	1,143	850	13,101
S3	MID 17	990021	CUNN UNMETERED TRANS	401	305	352	390	491	849	496	637	481	383	453	335	5,573
S3 Total				981,684	1,006,699	1,072,126	768,157	460,373	395,398	312,528	411,634	420,879	592,318	766,275	789,320	7,977,391
ST	MID 17	961306	CUNNINGHAM UGS LIQ.PLT FU	203	186	218	196	183	175	165	169	166	183	200	221	2,265
ST	MID 17	964004	MACKS 5-CUNN STO SER			14,604	6,762	1,011							986	23,363
ST	MID 17	964096	CUNN STORAGE COMP.UNIT #8 FUEL	2,098	1,299	1,623	3,376	1,020	2,880	1,272	2,670	3,823	1,471	3,414	3,096	28,042
ST	MID 17	964097	CUNN STORAGE COMP.UNIT #9 FUEL	2,680	1,519	2,099	4,703	2,819	3,839	6,244	1,890	1,622	2,178	3,739	2,445	35,777
ST	MID 17	964101	CUNNINGHAM UGS - PLANT	1,902	1,819	2,105	1,768	1,317	840	575	690	840	1,229	1,512	1,698	16,295
ST	MID 17	990000	CUNNINGHAM UGS FIELD SEPERATORS	2	9	18	17	2	1		3	3	9	5	9	78
ST	MID 17	990011	CUNNINGHAM UNMETERED GATH	3,477	392	619	2,037	824	1,291	457	1,102	1,242	2,410	1,425	1,060	16,336
ST	MID 17	990021	CUNN UNMETERED TRANS	500	380	438	487	613	1,059	618	794	601	478	566	418	6,952
ST	MID 17	964001	REDFIELD LAGOON SEPARATOR EAST VENT	205	809	541	385	238	137	128	124	122	127	713	3,091	6,620
ST	MID 17	964002	REDFIELD LAGOON SEPARATOR WEST VENT	4,490	8,044	7,226	3,781	1,170	522	974	1,237	1,338	1,573	1,563	9,812	41,730
ST	MID 17	964007	REDFIELD LAGOON SEPARATOR NORTH VENT	3,140	4,305	4,203	1,324	765	287	62	73				1,729	15,888
ST	MID 17	964013	REDFIELD 1 COMP FUEL WEST RUN	32,244	28,898	26,523	8,643	5	5	20	14,689	16,554	19,171	22,509	21,820	191,081
ST	MID 17	964014	REDFIELD DEHY FUEL	7,524	5,403	4,536	3,230	1,181	1,075	404		25	631	2,706	6,917	33,632
ST	MID 17	964018	REDFIELD SPC BUILDING DOMESTIC FUEL	808	590	587	300	6				2	122	434	386	3,235
ST	MID 17	964019	REDFIELD LOCAT BLDG HEATER FUEL	312	334	328	288						221	464	268	2,215
ST	MID 17	964042	REDFIELD H2S TREATER FUEL	4,220	3,785	3,180	1,776	1,643	2,130	92	679	614	732	1,770	4,199	24,820
ST	MID 17	964051	REDFIELD DOMESTIC FUEL	790	612	524	470	209	242		126	40	420	1,172	428	5,033
ST	MID 17	969042	REDFIELD FUEL UNIT 5	42,814	36,472	2,225				62	16,657	34,493	39,163	36,889	38,120	246,895
ST	MID 17	969043	REDFIELD FUEL UNIT 6	2,756	2,624	6,628	5,722	4,352	1,599	1,079		2	102	3,855	20	28,739

NORTHERN NATURAL GAS COMPANY
PERIODIC RATE ADJUSTMENTS FOR FUEL
FUEL CONSUMED DATA - TRANSPORTATION AND STORAGE
JANUARY 2023 through DECEMBER 2023

SCHEDULE 1

Sec /1	MID Zone	Station Number	Station Name	Source: Measurement Data warehouse												
				Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Annual
ST	MID 17	990020	LYONS UNMETERED	1,263	1,200	957	728	633	572	780	817	911	946	889	681	10,377
ST	MID 17	990047	REDFIELD ST PETER PLANT UNMETERED	79	72	79	79	79	79	24	171	166	137	137	139	1,241
ST	MID 17	990048	REDFIELD MT SIMON PLANT UNMETERED	616	557	101	45	44	44	93	765	752	694	695	705	5,111
ST	MID 17	990049	REDFIELD MT SIMON UNMETERED	7,846	2,087	1,081	718	591	506	253	431	1,370	1,994	1,380	9,364	27,621
ST	MID 17	990050	REDFIELD ST PETER UNMETERED	10,488	6,719	3,663	2,096	1,459	1,169	723	823	1,019	1,028	1,200	10,049	40,436
ST Total				130,457	108,115	84,106	48,931	20,164	18,452	14,025	43,914	65,803	74,917	87,237	117,661	813,782
Grand Total				1,938,372	1,841,033	1,918,029	1,481,654	1,064,922	831,617	701,147	774,404	864,870	1,199,959	1,576,468	1,633,614	15,826,089
Total Transportation Fuel				1,807,915	1,732,918	1,833,923	1,432,723	1,044,758	813,165	687,122	730,490	799,067	1,125,042	1,489,231	1,515,953	15,012,307
Total Storage Fuel				130,457	108,115	84,106	48,931	20,164	18,452	14,025	43,914	65,803	74,917	87,237	117,661	813,782
Total Fuel				1,938,372	1,841,033	1,918,029	1,481,654	1,064,922	831,617	701,147	774,404	864,870	1,199,959	1,576,468	1,633,614	15,826,089

Foot notes
1/

S1 = Section 1 Transportation Facility Fuel.
S2 = Section 2 Transportation Facility Fuel.
S3 = Section 3 Transportation Facility Fuel.
ST = Storage Fuel.

Annual Transactions from January 2023 through December 2023 for Mainline Fuel

Receipt MID	D1	D2	D3	D4	D5	D6	D7	D7B	D8	D9	D10	D11	D12	D13	D14	D15	D16a	D16b	D17	Annual Total
SECTION 1 - SECTION 1									SECTION 1 - SECTION 2									SECTION 1 - SECTION 3		
R01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R03	-	-	61,492,288	762,296	11,172,667	22,209,481	13,303,070	-	1,659,912	-	1,414,846	-	-	71,122	-	-	-	65,408,671	-	177,494,353
R04	-	-	992,472	24,993	-	37,388,035	3,408,949	-	2,031,734	-	-	-	-	-	-	-	-	9,857,672	-	53,703,855
R05	-	-	125,872	18,398	-	1,770,097	3,004,479	-	214,953	-	18,000	-	-	13,432	-	-	-	18,392,310	-	23,557,541
R06	-	-	139,140,381	8,918,678	294,225	42,520,542	678,342	-	122,499	-	-	-	-	26,664	-	-	-	44,243,651	-	235,944,982
R07	-	-	-	-	-	320,179	-	-	-	-	-	-	-	-	-	-	-	-	-	320,179
R7b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
subtotal									subtotal									-		
MID 1-7B									MID 8-16A									-		
347,545,444									subtotal									-		
									MID 16B									-		
									137,902,304									-		
SECTION 2 - SECTION 1									SECTION 2 - SECTION 2									SECTION 2 - SECTION 3		
R7b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R08	-	-	-	-	-	-	-	-	-	-	-	-	-	60,189	-	-	-	4,566,184	-	4,626,373
R09	-	-	-	-	-	-	10,000	-	-	40,858	-	-	-	-	-	-	-	4,193,176	-	4,244,034
R10	-	-	6,083	2,558	21,622	210,442	1,900,337	-	321,229	204,141	3,530,899	46,678	-	1,717,792	-	457,933	215,892	45,979,541	-	54,615,147
R11	-	-	-	-	-	-	76,728	-	-	-	-	640,062	-	128,467	-	-	-	4,508,888	-	5,354,145
R12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R13	-	-	2,419	289	-	408,357	3,081,523	-	101,110	-	17,280	-	-	5,468,810	-	109,438	140,372	17,763,842	-	27,093,440
R14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R15	-	-	-	-	-	-	675	-	-	-	-	-	-	1,637,280	-	17,199	419,670	115,208	-	2,190,032
R16a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227,160	-	227,160
R16b	-	-	15,059	40,413	798,821	16,680	406,220	-	47,280	-	3,763,025	-	-	-	-	-	-	-	-	-
subtotal									subtotal									183,758,777		188,846,275
MID 8-16A									MID 7B-16A									-		
5,721,033									Rec=MID 16B									-		
subtotal									subtotal									-		
Rec=MID 16B									Rec=MID 16B									-		
1,277,193									3,810,305									183,758,777		
SECTION 3 - SECTION 1									SECTION 3 - SECTION 2									SECTION 3 - SECTION 3		
R17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	844,313,242	-	844,313,242
																		844,313,242		
Total	-	-	201,774,574	9,767,625	12,287,335	104,843,813	25,870,323	-	4,498,717	244,999	8,744,050	686,740	-	9,123,756	-	584,570	775,934	215,256,303	1,028,072,019	1,622,530,758

Source: Northern's Accounting System.

Annual Transactions from January 2023 through December 2023 for Mainline Fuel

Point Exceptions: Throughput from these receipt points to MIDs 1-7 are excluded from Section 2 fuel derivation on Schedule 3 (Tariff Sheet No. 54A).				
179	& 78287	MID 13	ANR/NNG Greensburg	8,842
60667	& 78284	MID 8	TW/NNG Gray ITE	0
71214	& 78292	MID 16 A	TIGT Tescott	0
71394		MID 9	ETC Hemphill Plant	0
78441	& 78883	MID 13	Cheyenne Plains	0
78643	& 78902	MID 8	Enbridge Pampa	0
Total Receipts				8,842

Point Exceptions: Throughput from MIDs 1-7 to these delivery points are excluded from Section 2 fuel derivation on Schedule 3.				
4891		MID 8	WTG-Lark	0
55610		MID 8	Mid-States Energy	0
60667 & 78284		MID 8	TW/NNG Gray ITE	16,420
Total Delivery				16,420

Source: Northern's Accounting System.

Northern Natural Gas Company
Periodic Rate Adjustments for Fuel
Calculation of Base Mainline Fuel Percentages

Schedule 3

Annual Transactions from January 2023 through December 2023 for Mainline Fuel

Mainline Throughput

(A)	(B)	(C)	(D)	(E)	(F)
	Section 1 (1-7)	Section 2 (8-16a)	Section 2 (16b)	Section 3 (17)	Total
Section 1 (1-7)	347,545,444	5,573,162	137,902,304	-	491,020,910
Section 2 (8-16a)	5,721,033	15,275,299	77,353,999	-	98,350,331
Section 2 (16b)	1,277,193	3,810,305	-	183,758,777	188,846,275
Section 3 (17)	-	-	-	844,313,242	844,313,242
Total	<u>354,543,670</u>	<u>24,658,766</u>	<u>215,256,303</u>	<u>1,028,072,019</u>	<u>1,622,530,758</u> 1/

	Fuel Consumed		Throughput		Percentage
Section 1	3,429,872	2/	498,019,136	5/	0.69%
Section 2	3,605,044	3/	245,610,840	6/	1.47%
Section 3, Apr-Oct	3,361,287	4/	518,855,093	7/	0.65%
Total	<u>10,396,203</u>		<u>1,262,485,069</u>		

Backup:		Matrices linked to numbers in Column B					
1	Throughput		Section 1 (1-7b)	Section 2 (8-16a)	Section 2 (16b)	Section 3 (17)	Total
Section 1-1	347,545,444	Section 1 (1-7)	347,545,444	5,573,162	137,902,304	-	491,020,910
Section 2-1	5,721,033						-
Section 2(16b)-1	1,277,193	Section 2 (8-16a)	5,721,033				5,721,033
Section 3-1	-	Section 2 (16b)	1,277,193				1,277,193
Section 1-2	5,573,162	Section 3 (17)	-				-
Section 1-2(16b)	137,902,304	Total	<u>354,543,670</u>	<u>5,573,162</u>	<u>137,902,304</u>	<u>-</u>	<u>498,019,136</u> 5/
Section 1-3	-						
	<u>498,019,136</u> 5/						
2	Throughput		Section 1 (1-7b)	Section 2 (8-16a)	Section 2 (16b)	Section 3 (17)	Total
Section 2-1	5,721,033						
Section 2(16b)-1	-	Section 1 (1-7b)	5,573,162		137,902,304	-	143,475,466
Section 3-1	-	Section 2 (8-16a)	5,721,033	15,275,299	77,353,999	-	98,350,331
Section 1-2	5,573,162	less exempt POIs			(25,262)		(25,262)
Section 2-2	15,275,299	Section 2 (16b)	-	3,810,305			3,810,305
Section 2(16b)-2	3,810,305	Section 3 (17)	-	-			-
Section 3-2	-	Total	<u>5,721,033</u>	<u>24,658,766</u>	<u>215,231,041</u>	<u>-</u>	<u>245,610,840</u> 6/
Section 1-2(16b)	137,902,304						
Section 2-2(16b)	77,353,999						
less exempt POIs	(25,262) 8/						
Section 1-3	-						
Section 2-3	-						
	<u>245,610,840</u> 6/						
3	Throughput		Apr-Oct Section 3 (17)	Nov-Mar (not used) Section 3 (17)	Total Section 3 (17)		
Section 1-3	-	Section 1 (1-7b)				-	
Section 2-3	-	Section 2 (8-16a)				-	
Section 2(16b)-3	183,758,777	Section 2 (16b)	78,852,310	104,906,467	183,758,777		
Section 3-3	844,313,242	Section 3 (17)	440,002,783	404,310,459	844,313,242		
	<u>1,028,072,019</u>	Total	<u>518,855,093</u>	<u>509,216,926</u>	<u>1,028,072,019</u>		7/

1/ See Schedule 2

2/ See Schedule 1, subtotal S1 for MIDs 1-7

3/ See Schedule 1, subtotal S2 for MIDs 8-16B

4/ See Schedule 1, subtotal S3 for MID 17, April-October

5/ Section 1 Throughput

6/ Section 2 Throughput

7/ Section 3 April - October Throughput

8/ See Point Exceptions on page 2 of Schedule 2

Northern Natural Gas Company
Periodic Rate Adjustments for Fuel
Allocate Retained Fuel by Section

Schedule 4

Annual Transactions from January 2023 through December 2023 for Mainline Fuel

		Apr-Oct								
Rec	Del	Fuel Retained	Fuel %	0.0072	0.0149	0.0095	MID 1-7	MID 8-16	MID 17 /1	Total
			Charged:							
			Fuel%	Section 1	Section 2	Market	Section 1	Section 2	Market	Retained
Summer (April-October) Market fuel rate										
Section 1	Section 1	1,462,836	0.0072	0.0072			1,462,836	0	0	1,462,836
Section 1	Section 2	30,343	0.0221	0.0072	0.0149		9,886	20,457	0	30,343
Section 1	Section 2 (16b)	1,591,163	0.0221	0.0072	0.0149		518,388	1,072,775	0	1,591,163
Section 2	Section 1	87,730	0.0221	0.0072	0.0149		28,582	59,148	0	87,730
Section 2	Section 2	127,287	0.0149		0.0149		0	127,287	0	127,287
Section 2	Section 2 (16b)	439,464	0.0149		0.0149		0	439,464	0	439,464
Section 2 (16b)	Section 1	4,087	0.0072	0.0072			4,087	0	0	4,087
Section 2 (16b)	Section 2	52,821	0.0149		0.0149		0	52,821	0	52,821
Section 2 (16b)	Section 2 (16b) 2/	274	0.0149		0.0149		0	274	0	274
Section 2 (16b)	Section 3	748,919	0.0095			0.0095	0	0	748,919	748,919
Section 3	Section 1		0.0072	0.0072			0	0	0	0
Section 3	Section 2		0.0149		0.0149		0	0	0	0
Section 3	Section 2 (16b)		0.0149		0.0149		0	0	0	0
Section 3	Section 3	4,170,024	0.0095			0.0095	0	0	4,170,024	4,170,024
Total	Summer	8,714,948					2,023,778	1,772,227	4,918,943	8,714,948
Winter (Jan-Mar & Nov-Dec) Market Fuel rates										
Section 1	Section 1	1,031,843	0.0072	0.0072			1,031,843	0	0	1,031,843
Section 1	Section 2	31,018	0.0221	0.0072	0.0149		10,105	20,913	0	31,018
Section 1	Section 2 (16b)	1,254,194	0.0221	0.0072	0.0149		408,606	845,588	0	1,254,194
Section 2	Section 1	33,715	0.0221	0.0072	0.0149		10,984	22,731	0	33,715
Section 2	Section 2	77,146	0.0149		0.0149		0	77,146	0	77,146
Section 2	Section 2 (16b)	555,753	0.0149		0.0149		0	555,753	0	555,753
Section 2 (16b)	Section 1	5,071	0.0072	0.0072			5,071	0	0	5,071
Section 2 (16b)	Section 2	3,711	0.0149		0.0149		0	3,711	0	3,711
Section 2 (16b)	Section 2 (16b) 2/	312	0.0149		0.0149		0	312	0	312
Section 2 (16b)	Section 3	1,171,801	0.0095			0.0095	0	0	1,171,801	1,171,801
Section 3	Section 1		0.0072	0.0072	0.0000		0	0	0	0
Section 3	Section 2		0.0149		0.0149		0	0	0	0
Section 3	Section 2 (16b)		0.0149		0.0149		0	0	0	0
Section 3	Section 3	4,437,803	0.0095			0.0095	0	0	4,437,803	4,437,803
Reverse fuel from Sec 2 exceptions		-181	0.0221	0.0072	0.0149		-59	-122	0	-181
Move fuel to Section 1 3/		181	0.0072	0.0072			181	0	0	181
Total	Winter	8,602,367					1,466,732	1,526,031	5,609,604	8,602,367
Annual Total		17,317,315					3,490,510	3,298,258	10,528,547	17,317,315

1/ Section 3 fuel retained is calculated seasonally. Winter fuel retained is not used at this time.

2/ Reflects fuel retained on out-of-balance deliveries to 16B and from 7B to 16B

3/ Only Section 1 fuel is retained for Section 1-2 or Section 2-1 paths described on page 2 of Schedule 2

Northern Natural Gas Company
Periodic Rate Adjustments for Fuel
Mainline Fuel True-up

Schedule 5

Annual Transactions from January 2023 through December 2023 for Mainline Fuel

Mainline Fuel	Section 1	Section 2	Apr-Oct Section 3	Total	
1 Actual Mainline Fuel Consumed 1/	3,429,872	3,605,044	3,361,287	10,396,203	
2 Actual Mainline Fuel Retained 2/	3,490,510	3,298,258	4,918,943	11,707,711	
3 less True-up Under(Over) Recovered 3/	97,956	108,280	1,107,091	1,313,327	
4 Actual Mainline Fuel Retained Net of True-up	3,392,554	3,189,978	3,811,852	10,394,384	line 2 - line 3
5 Under(Over) Recovered	37,318	415,066	(450,565)	1,819	line 1 - line 4
6 Total Throughput Applicable to Mainline Fuel 4/	498,019,136	245,610,840	518,855,093		
7 True-up Adjustment Due (Shipper) Northern	0.01%	0.17%	-0.09%		line 5 / line 6

1/ See Schedule 1

2/ See Schedule 4

3/ Mainline Fuel True-up as stated on Schedule 5 of Northern's February 1, 2023 fuel filing in
Docket No. RP23-416-000

4/ See Schedule 3

Northern Natural Gas Company
Periodic Rate Adjustments for Fuel
Mainline Fuel
Effective April 1, 2024

Schedule 6

Base Mainline Fuel Percent 1/

	<u>Section 1</u>	<u>Section 2</u>	<u>Apr-Oct Section 3</u>
Section 1	0.69%	2.16%	2.81%
Section 2	2.16% 4/	1.47%	2.12%
Section 3	0.69%	1.47%	0.65%

True-up Mainline Fuel Percent 2/

	<u>Section 1</u>	<u>Section 2</u>	<u>Apr-Oct Section 3</u>
Section 1	0.01%	0.18%	0.09%
Section 2	0.18%	0.17%	0.08%
Section 3	0.01%	0.17%	-0.09%

Total Mainline Fuel Percent 3/ 4/

	<u>Section 1</u>	<u>Section 2</u>	<u>Apr-Oct Section 3</u>
Section 1	0.70%	2.34%	2.90%
Section 2	2.34%	1.64%	2.20%
Section 3	0.70%	1.64%	0.56%

1/ See Schedule 3

2/ See Schedule 5

3/ Base Mainline Fuel Percent plus True-up Mainline Fuel Percent

4/ Fuel percent from MID 16B or Exempt Section 2 Points to Section 1 equals the Section 1 percentage. Exempt Section 1 and 2 points are listed on Schedule 2.

General Ledger Accounting Month Production Month		Jan-23 Dec-22 Dth	Feb-23 Jan-23 Dth	Mar-23 Feb-23 Dth	Apr-23 Mar-23 Dth	May-23 Apr-23 Dth	Jun-23 May-23 Dth	Jul-23 Jun-23 Dth	Aug-23 Jul-23 Dth	Sep-23 Aug-23 Dth	Oct-23 Sep-23 Dth	Nov-23 Oct-23 Dth	Dec-23 Nov-23 Dth	2023 Dth
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
1 SOURCE														
2	Operational Purchases	768,802	338,848	174,972	101,506	63,978	(10)	56,325	15,000	65,000	115,500	8,711,061	151,037	10,562,019
3	Transport	148,754,752	146,381,099	122,495,927	132,353,010	100,950,641	90,469,343	98,456,068	102,140,558	100,764,121	87,697,581	101,789,626	114,497,893	1,346,750,619
4	URR Retained	-	-	-	-	-	-	(13,756)	(14,268)	(15,441)	(16,141)	(14,668)	(433)	(74,707)
5	Fuel Retained	1,988,943	1,959,806	1,647,168	1,758,842	1,350,207	1,199,292	1,197,699	1,227,790	1,218,280	1,175,706	1,347,970	1,557,776	17,629,479
6	Storage Retained	-	-	-	-	-	-	205,179	212,981	231,159	241,084	219,213	6,469	1,116,085
7	UAF Retained	(482,632)	(474,528)	(398,769)	(428,887)	(31,204)	(27,767)	(30,756)	(31,710)	(31,292)	(27,475)	(31,933)	(35,617)	(2,032,570)
8	NET RECEIPTS/SOURCES	151,029,865	148,205,225	123,919,298	133,784,471	102,333,622	91,640,858	99,870,759	103,550,351	102,231,827	89,186,255	112,021,269	116,177,125	1,373,950,925
9 DISPOSITION														
10	Operational Sales	2,720,778	280,000	-	2,325,000	-	800,000	387,500	-	-	-	-	620,000	7,133,278
11	Transport, IT FT	148,801,983	146,303,349	122,003,376	132,126,062	101,159,483	89,458,607	98,885,028	102,298,936	100,889,376	87,867,416	102,083,132	114,449,957	1,346,326,705
12	Storage Gas Losses/Workorder	-	-	-	-	-	-	-	-	-	-	-	-	-
13	URR Recognized	-	-	-	-	-	-	419,616	-	-	-	-	-	419,616
14	Fuel Used & Storage Fuel Used	2,114,152	1,938,371	1,841,033	1,918,029	1,481,654	1,064,922	831,617	701,147	774,404	864,870	1,199,959	1,576,468	16,306,626
15	Condensate	-	-	-	3,342	-	-	-	-	-	-	-	1,994	5,336
16	Pipeline Rupture	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Storage	(2,757,343)	(607,992)	244,339	(1,735,302)	(640,753)	291,465	(363,924)	759,930	859,840	115,677	8,290,786	(502,698)	3,954,025
18	NET DELIVERIES/DISPOSITION	150,879,570	147,913,728	124,088,748	134,637,131	102,000,384	91,614,994	99,740,221	104,179,629	102,523,620	88,847,963	111,573,877	116,145,721	1,374,145,586
19	ACCOUNTING UAF (Due Shipper) Due NNG	150,295	291,497	(169,450)	(852,660)	333,238	25,864	130,538	(629,278)	(291,793)	338,292	447,392	31,404	(194,661)

UAF =	
Line (19), Total Column	(194,661)
Divided by:	
Throughput =	1,362,347,528
Line (3) + (5) + (7) Total Column	
Base UAF	-0.01%

True-up	2023
UAF Retained	(2,032,570)
Add 2022 Over (Under) recovery	547,324
UAF Retained	(1,485,246)
UAF Actual Jan-Dec 23 - GL Accounting Month	(194,661)
UAF Over (Under) recovered	(1,290,585)
Divided by:	
Throughput =	1,362,347,528
Line (3) + (4) + (7) Total Column	
UAF system-wide adjustment	0.09%

Effective UAF	0.08%
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Northern Natural Gas Company
Periodic Rate Adjustments for Fuel
Storage Fuel

Schedule 8
page 1 of 2

1 Storage Fuel Consumed	1/	813,782
2 FDD Injections	2/	57,544,992
3 Storage Fuel Rate		1.41%
<u>True-up</u>		
4 Actual Storage Fuel Consumed	1/	813,782
5 Actual Storage Fuel Retained	3/	1,116,085
6 Less prior year True-Up Under(Over) Recovered	4/	<u>177,130</u>
7 Actual Storage Fuel Retained Related To Consumed		938,955
8 Under(Over) Recovered		(125,173)
9 FDD Injections		57,544,992
10 Storage Fuel Rate True-up		-0.22%
<u>Total Storage Fuel Percentage</u>		
11 Actual Fuel Rate Percent (Line 3)		1.41%
12 True-up Percent (Line 10)		<u>-0.22%</u>
13 Total Storage Fuel Percentage		1.19%

1/ Schedule 1

2/ Total from Schedule 8 page 2, column (b)

3/ Total from Schedule 8 page 2, column (c)

4/ In order to recognize retention to recover the prior year's under/(over) recovery, the Storage Fuel True-up as stated on Schedule 8 of Northern's February 1, 2023 annual fuel filing in Docket No. RP23-416-000 must be deducted from the total actual retention.

Northern Natural Gas Company
Periodic Rate Adjustments for Fuel
Storage Injections and Fuel Retained

Schedule 8
Page 2 of 2

FDD Injections by month

Month	Injection volume on which storage fuel was retained (dth)	Storage fuel retained (dth)
(a)	(b)	(c)
202306	10,577,620	205,179
202307	10,984,731	212,981
202308	11,920,474	231,159
202309	12,425,698	241,084
1/ 202310	11,636,469	225,682
Total	57,544,992	1,116,085

1/ Prior period adjustment injections made in November are included with October activity. The PPAs are tied to imbalance-to-storage activity for October.

Northern Natural Gas Company
Periodic Rate Adjustments for Fuel
Market Area Electric Compression Charge

Schedule 9
Page 1 of 2

For the Period January 2023 through December 2023

1 Electric Compression Charges	\$500,241 1/
2 Deliveries to Market area (MID 17)	1,018,738,287 2/
3 Electric Compression Charge	\$0.0005
4 <u>True-up</u>	
5 Actual Electric Compression Commodity Charge Retained	\$488,510 3/
6 Less prior year True-Up Under(Over) Recovered	\$97,035 4/
7 Actual Electric Compression Charge collected vs. costs	\$391,475
8 Under(Over) Recovered (Line 1 less Line 7)	\$108,766
9 Electric Compression Rate True-up	\$0.0001
10 <u>Total Electric Compression Charge</u>	
11 Actual Compression Rate	\$0.0005
12 True Up	<u>\$0.0001</u>
13 Total Electric Compression Charge	\$0.0006

1/ Schedule 9 Costs for electric compression at facilities listed below:

Popple Creek added 10/2003. Spencer added 12/2006.

Chatfield incremental added 1/2007. Spring Green added 1/2008 and 11/2020.

Elk River added 11/2011. Pierz added 11/2021.

See Schedule 9, page 2, column (a)

2/ Schedule 9, page 2, column (e)

3/ Schedule 9, page 2, column (f)

4/ In order to recognize retention to recover the prior year's under/(over) recovery, the amount on line 8 of Schedule 9, page 1 of 2 of Northern's

February 1, 2023 annual fuel filing in Docket RP23-416-000 must be deducted from the total actual retention.

Northern Natural Gas Company
Periodic Rate Adjustments for Fuel
Market Area Electric Compression Charge

Schedule 9
Page 2 of 2

For the Period January 2023 through December 2023

Month	Charges (a)	Total Market Area Throughput (b)	Less Fuel Retained (c)	Less UAF Retained (d)	Total Market Throughput assessed Elec Compr 1/ (e)	Elec Compr Collected (f)
202301	82,773.76	114,836,920	1,377,357	-365,481	113,825,044	23,424.65
202302	88,349.12	95,542,957	1,144,556	-304,583	94,702,984	18,816.55
202303	96,351.83	101,046,600	1,212,654	-321,488	100,155,434	20,015.55
202304	63,565.91	76,957,733	729,773	-22,028	76,249,988	46,145.72
202305	31,933.70	64,821,914	614,866	-19,055	64,226,103	38,675.35
202306	10,001.79	74,536,936	706,306	-21,171	73,851,801	44,286.10
202307	9,078.37	76,128,457	720,805	-21,447	75,429,099	45,489.84
202308	6,803.10	75,163,995	712,976	-21,129	74,472,148	44,211.82
202309	11,457.08	68,101,218	646,140	-19,158	67,474,236	40,819.17
202310	12,625.49	83,144,840	788,077	-23,471	82,380,234	49,610.38
202311	33,229.30	91,955,325	870,888	-25,843	91,110,280	54,469.81
202312	54,071.68	105,835,124	1,004,149	-29,961	104,860,936	62,545.10
Total	\$500,241.13	1,028,072,019	10,528,547	-1,194,815	1,018,738,287	\$488,510.04

1/ Mainline Section 3 throughput per Schedule 2 less fuel and UAF retained

Northern Natural Gas Company
Periodic Rate Adjustments for Fuel
Calculation of Storage URR Percentage

Schedule 10
page 1 of 2

	Total	Redfield	Lyons
1 Total Storage Injections (Mcf) 1/	40,613,942	33,932,286	6,681,656
2 Total Storage Withdrawals (Mcf) 1/	40,216,445	33,575,809	6,640,636
3 Annual URR Volume Under-Recovered End of 2022-2023 Storage Cycle (Mcf)	397,497	356,477	41,020
4 Annual URR Volume Converted (Dth) 2/	419,617	377,502	42,115
5 FDD Injections June through October 2023 (Dth) 3/	57,544,992		
6 Storage Under-Recovered Percentage effective June 1, 2024	0.73%		
<u>True-up</u>			
7 Annual URR Volume from Prior Year	(80,151)		
8 Actual Storage URR Retained 4/	(74,707)		
9 Less prior year True-Up Under(Over) Recovered 5/	(1,791)		
10 Actual Storage URR Retained with True-up	(72,916)		
11 Under(Over) Recovered	(7,235)		
12 FDD Injections (Dth)	57,544,992		
13 Storage URR Percentage True-up	-0.01%		
<u>Total Storage URR Percentage</u>			
14 Actual (Over) Under-Recovered Percent (Line 5)	0.73%		
15 True-up Percent (Line 13)	-0.01%		
16 Total Storage (Over) Under-Recovered Fuel Percentage	0.72%		
<u>Post URR Balance</u>			
17 Prior Year Balance (Dth)		42,679	130,364
18 Annual Storage Under-Recovery (Dth)		377,502	42,115
19 New Post URR Balance (Dth)		420,181	172,479
<u>Pre URR Balance</u>			
20 Prior Balance (Per storage region operations) (Mcf)		6,966,443	1,289,531
21 Annual Activity (Mcf)		-	-
22 New Pre URR Balance (Mcf)		6,966,443	1,289,531

1/ Redfield and Lyons storage fields only.

2/ The Annual URR Volume Under-Recovered End of 2022-2023 Storage Cycle (Mcf) has been converted to Dth based on the average Btu factor for the Storage Cycle Year.

3/ Total from Schedule 10 page 2, column (b)

4/ Total from Schedule 10 page 2, column (c)

5/ In order to recognize retention to recover the prior year's under/(over) recovery, the Storage URR True-up as stated on Schedule No. 10 of Northern's February 1, 2023 annual fuel filing in Docket No. RP23-416-000 must be deducted from the total actual retention.

Northern Natural Gas Company
Periodic Rate Adjustments for Fuel
Storage Injections and URR Retained

Schedule 10
Page 2 of 2

FDD Injections by month

Month	Injection volume on which storage URR was retained (dth)	Storage URR retained (dth)
(a)	(b)	(c)
202306	10,577,620	-13,756
202307	10,984,731	-14,268
202208	11,920,474	-15,441
202209	12,425,698	-16,141
1/ 202210	11,636,469	-15,101
Total	57,544,992	-74,707

1/ Prior period adjustment injections made in November are included with October activity. The PPAs are tied to imbalance-to-storage activity for October.