Docket No. DG 23-034 Exhibit 2

REDACTED

STATE OF NEW HAMPSHIRE BEFORE THE PUBLIC UTILITIES COMMISSION

Docket No. DG 23-XXX

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty–Keene Division Summer 2023 Cost of Gas

DIRECT TESTIMONY

OF

DEBORAH M. GILBERTSON

AND

JAMES M. KING

March 17, 2023



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1 I. <u>INTRODUCTION</u>

2	Q.	Please state your full name, business address, and position.
3	A.	(DG) My name is Deborah M. Gilbertson. My business address is 15 Buttrick Road,
4		Londonderry, New Hampshire. My title is Senior Manager, Energy Procurement.
5		(JK) My name is James M. King. My business address is 15 Buttrick Road,
6		Londonderry, New Hampshire. My title is Rates Analyst II, Rates and Regulatory
7		Affairs.
8	Q.	By whom are you employed?
9	A.	We are employed by Liberty Utilities Service Corp. ("LUSC"), which provides services
10		to Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty ("Liberty" or the
11		"Company") and Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty.
12	Q.	On whose behalf are you testifying?
13	A.	We are testifying on behalf of the Company.
14	Q.	Ms. Gilbertson, please describe your educational background, and your business
15		and professional experience.
16	A.	I graduated from Bentley College in Waltham, Massachusetts, in 1996 with a Bachelor of
17		Science in Management. In 1997, I was hired by Texas Ohio Gas where I was employed
18		as a Transportation Analyst. In 1999, I joined Reliant Energy, located in Burlington,
19		Massachusetts, as an Operations Analyst. From 2000 to 2003, I was employed by Smart
20		Energy as a Senior Energy Analyst. I joined Keyspan Energy Trading Services in 2004
21		as a Senior Resource Management Analyst following which I was employed by National

1		Grid from 2008 through 2011 as a Lead Analyst in the Project Management Office. In
2		2011, I was hired by LUSC as a Natural Gas Scheduler and was promoted to Manager of
3		Retail Choice in 2012. In October 2016, I was promoted to Senior Manager of Energy
4		Procurement. In this capacity, I provide gas procurement services to Liberty.
5	Q.	Mr. King, please describe your educational background, and your business and
6		professional experience.
7	A.	I joined Liberty in September 2022. Prior to joining Liberty, I was employed by the
8		Massachusetts Department of Public Utilities from 2014 through 2022. I held positions
9		as an Economist III and Economist II in the Rates and Revenue Requirements Division
10		responsible for the review and analysis of base distribution rate cases, as well as other
11		rate reconciliation mechanisms presented to the Department from Massachusetts' gas,
12		electric, and water companies. I graduated from Franklin and Marshall College in
13		Lancaster, Pennsylvania, in 2013 with a Bachelor of Social Science in Government and
14		Economics.
15	Q.	Ms. Gilbertson, and Mr. King, have you previously testified in regulatory
16		proceedings before the New Hampshire Public Utilities Commission (the
17		"Commission")?
18	A.	Yes, we have.
19	Q.	What is the purpose of your testimony?
20	A.	The purpose of our testimony is to explain the Company's proposed Cost of Gas
21		("COG") rates for its Keene Division for the 2023 summer (off-peak) period to be

1	effective beginning May 1, 2023. Our testimony will also address bill comparisons and
2	other items related to the summer period.

3

II. <u>SUMMER COST OF GAS RATE</u>

4 Q. What is the proposed firm summer cost of gas rate?

- 5 A. The Company proposes a firm cost of gas rate of \$1.4761 per therm for the Keene
- 6 Division as shown on Attachment JMK-1, Summary Schedule.

7 Q. Please explain the calculation of the summer COG rate.

- 8 A. The Summary Schedule in Attachment JMK-1 contains the calculation of the 2023
- 9 Summer Period COG and summarizes the Company's forecast of propane and
- 10 compressed natural gas ("CNG") sales and propane and CNG costs. The total anticipated
- 11 cost of the gas sendout from May 1 through October 31, 2023, is \$549,116 and forecasted
- 12 interest is (\$418) for a total of \$548,698. The prior period over collection of (\$26,705) is
- added to the forecasted cost of gas for a total anticipated cost of \$521,993. The
- 14 information presented on the summary page is supported by Schedules A through O,
- 15 which are described later in this testimony.
- 16 The Total Anticipated Cost of Gas is derived as follows:
- The prior period over collection of (\$26,705) through April 30, 2023, as shown on
 Schedule B, pg. 1, line 36 and further supported in Schedule B, pg. 2. This
 includes \$924 of interest on November 2022 through April 2023 over/under
 recovery balances as shown on Schedule B, pg. 2, line 47. Interest is accrued

1		using the monthly prime lending rate as reported by the Federal Reserve
2		Statistical Release of Selected Interest Rates.
3		2) The total anticipated cost of the gas sendout from May 1 through October 31,
4		2023, of \$549,116 as shown on Schedule B, pg.1, line 17. This includes any
5		adjustments and Fixed Price Option ("FPO") premiums shown on Schedule B, pg.
6		1, lines 15 and 16, respectively.
7		3) The calculated return on inventory for the forecasted period as shown on Schedule
8		B, pg. 1, line 18. There was no return on inventory for the forecast period.
9		4) Forecasted interest on May–October 2023 over/under recoveries of (\$418) is
10		added to the anticipated cost of gas sendout. Schedule B, pg, 1, line 39 shows this
11		forecasted interest calculation for the period May through October 2023. Interest
12		is accrued using the monthly prime lending rate as reported by the Federal
13		Reserve Statistical Release of Selected Interest Rates.
14		The Non-Fixed Price Option ("Non-FPO") cost of gas rate of \$1.4761 per therm was
15		calculated by dividing the sum of Total Anticipated Cost of Gas and return on inventory,
16		the over collection, and interest of \$521,993 by the Projected Gas Sales of 353,632
17		therms. There is no Fixed Price Option for the summer period. The FPO program is only
18		offered during the winter (peak) period.
19	Q.	Please describe Schedule A, the Conversion of Costs from Gallons to Therms.
20	A.	Schedule A converts the propane gas volumes and unit costs from gallons to therms. The
21		382,961 therms represent sendout as detailed on Schedule B, pg. 1, line 3 and line 9. The

1	blended unit cost of those supplies is \$ per therm which represents the weighted
2	average cost per therm for the summer period gas sendout as detailed on Schedule F, line
3	37.

4 Q. Please describe Schedule B, the Calculation of the Cost of Gas Rate

- A. Schedule B, pg. 1 presents the final (over)/under collection calculation for the summer
 2023 period based on the prior period (over)/under collection, forecasted volumes, the
 cost of gas, and applicable interest amounts. The forecasted total propane sendout of
 307,268 therms on line 3, plus total CNG sendout of 75,693 therms on line 8, is the sum
 of the forecasted summer 2023 total firm sendout. The forecasted Firm Sales on line 25
 represent weather normalized 2023 summer period firm sales. The weather
- 11 normalization calculations for sendout and sales are found in Schedules I and J,
- 12 respectively.
- 13 Q. Are CNG demand charges included in this filing?
- 14 A. Yes, CNG demand charges are included in Schedule B, pg. 1, on line 11.

15 Schedule B, pg. 1, line 11, includes 25% of the 2023 demand charges. These charges are

16 per month or for the season and represent the portion attributable to
17 the summer period.

18 Q. Is this an approved allocation of summer demand charges?

- 19 A. Yes, in Order No. 26,505 (July 30, 2021), the Commission approved the Settlement
- 20 Agreement in the Company's recent distribution service rate case which fixed the
- allocation of Keene CNG demand charges to be 75% in the winter period and 25% in the

1		summer period. The total demand charge for the summer period is thus the total annual
2		demand charge of times 25%, or .
3	Q.	Are incremental costs/savings for prior summer periods related to the use of CNG
4		versus propane included in this filing?
5	A.	Yes, the calculation of prior summer period incremental costs/savings between propane
6		and CNG have been calculated for the summer of 2019, 2020, 2021, and 2022 per
7		Section 7.1 of the Settlement Agreement in Docket No. DG 20-105. The calculation can
8		be found on Schedule N. The Company's projected savings for the summer 2023 of
9		\$19,511 can be found on Schedule M. Of this amount, the Company has included \$111
10		in this filing, representing the amount of incrementally higher CNG cost accrued since
11		the commencement of CNG service, which has not been recovered from customers.
12	Q.	Can you itemize the previous years' incremental costs/savings which are shown in
13		this filing?
14	А.	Yes, the previous period incremental costs/savings calculations can be found on Schedule
15		O. For the summer of 2019, the Company collected 100% of the incrementally higher
16		CNG costs, which totaled \$5,048. In light of the Settlement Agreement authorizing the
17		Company to recover only 50% of the incrementally higher CNG costs, \$2,524 was
18		returned to customers over the Summer 2022 period through the rates proposed in that
19		filing.
20		For the summer of 2020, CNG costs were \$16,214 higher than propane costs. Over the
21		course of the 2020 summer the Company deferred 100% of those incremental costs, that

1	is, the Company did not collect any of the \$16,214. The Settlement Agreement
2	authorized the Company to collect 50% of those charges, and thus the rate proposed in
3	DG 22-015 included recovery of \$8,107 of the incrementally higher CNG costs. Again,
4	these exact calculations for the 2019 and 2020 summers were specifically included in the
5	Settlement Agreement.
6	For the summer of 2021, CNG costs were \$13,026 less expensive than propane. The
7	Company again deferred, i.e., it did not include these savings in the 2020 COG rates.
8	The Settlement Agreement allows the Company to recover 100% of these savings "up to
9	the amount of incrementally higher CNG costs accrued since the commencement of CNG
10	service, which have not then been recovered from customers," and thereafter share any
11	remaining savings with customers equally. Settlement Agreement at Bates 14. The
12	amount of the "incrementally higher COG costs accrued since the commencement of
13	CNG service" that the Company did not recover is \$10,631. The rates proposed there
14	thus included recovery of that amount, leaving \$2,395 in savings to be addressed in a
15	future period. For the summer of 2022, CNG costs were \$5,012 incrementally more
16	expensive than propane. The Company collected one-half of the incrementally higher
17	CNG supply costs, \$2,506, during the Summer 2022 period, leaving \$2,506 to be added
18	to the incremental costs not recovered balance. Including the summer 2022 experience,
19	the current net balance of the incremental costs not recovered through the beginning of
20	the summer 2023 period is \$111 (-\$2,395 + \$2,506 = \$111).

009

1	Q.	Are projected 2023 incremental cost/savings included in this filing?
2	A.	Yes. The Company projects CNG costs to be \$19,511 less than propane costs over the
3		summer of 2023. The proposed rates in this filing include \$111 for the amount of
4		incrementally higher CNG cost accrued since the commencement of CNG service which
5		have not been recovered from customers. This can be found on line 13 of Schedule B.
6		The detailed calculation can be found on Schedules M and N.
7	Q.	Are unaccounted-for gas volumes included in the filing?
8	A.	Unaccounted-for gas is included in the firm sendout on Schedule B, lines 1 and 8. The
9		Company actively monitors its level of unaccounted-for volumes, which amounted to
10		2.11% for the twelve months ended June 30, 2022.
11	Q.	How is the information formerly included in Schedule G and H represented in this
12		filing?
13	A.	Schedule G, the Company's prior year cost of gas reconciliation, is now included as
14		Schedule B, pg.2. Schedule H, the Company's calculation of interest and adjustments, is
15		now also reflected in Schedule B, pg.2
16	Q.	Why is the Company showing November through April in Schedule B, pg.2?
17	A.	The Company chose to extend the prior summer cost of gas reconciliation through April
18		2023 to reflect costs related to summer period which occurred during the winter months
19		but are attributable to the summer period. These out of period adjustments can been seen
20		in columns 8 through 13. The calculation of interest for this period is reflected on line 44
21		through line 47.

1	Q.	How do the proposed Summer 2023 cost of gas rates compare with the previous
2		summer's rates?
3	A.	The proposed Non-FPO COG rate of \$1.4761 per therm is a decrease of \$0.1459 or
4		8.99% from the summer 2022 approved rate of \$1.6220 per therm, per Order No. 26,630
5		(May 20, 2022).
6	Q.	What are the primary reasons for the change in rates?
7	А.	The main reason for the \$0.1459 decrease is the decrease in projected market supply
8		costs. An additional reason for the decrease is due to having started Summer 2022 period
9		with an under collection versus starting the Summer 2023 period with an over collection.
10	III.	PROPANE COMMODITY COSTS
11	Q.	Please describe the forecasted spot prices of propane addressed in Schedules C and
12		E.
13	A.	Schedule E presents the forecasted market spot prices of propane. Column 1 shows the
14		Mont Belvieu propane futures quotations as of March 7, 2023. Subsequent columns
15		show expected broker/supplier fees, pipeline fees, and Propane Education & Research
16		Council (PERC) fees. These prices, when added together, represent a forecasted summer
17		nuice of anomalous. This nuice is also an anotation Schoolule C. line 21. Moto as actual
		price of propane. This price is also represented in Schedule C, line31. Note, as actual
18		price of propane. This price is also represented in Schedule C, line31. Note, as actual prices are realized, they will replace estimate pricing. The reconciliation of actual costs
18 19		

A. The Propane Purchasing Stabilization Plan is a Commission-approved strategy that the Company undertakes to provide stability in the winter COG rate and to facilitate the offering of a Fixed Price Option. Under this strategy, the Company systematically

Please describe the Propane Purchasing Stabilization Plan ("PPSP").

- 5 hedges supply purchases over the off-peak period, to be utilized and called upon in the
- 6 peak period. The strategy is intended to provide price stability rather than to secure lower
- 7 prices. The PPSP was approved in Order No. 24,617 (Apr. 28, 2006) and has been
- 8 discussed repeatedly in Keene's cost of gas proceedings ever since.

Q.

1

9 Q. Has the Company performed any analysis regarding its Propane Purchasing 10 Stabilization Plan?

Yes. The Company performed two analyses. In Schedule J-1, the Company evaluated 11 A. 12 the premium/discount associated with securing the pre-purchased volumes for delivery in the winter of 2022–2023 relative to securing a floating price at Mont Belvieu. The 13 14 comparison reflects the net premium/discount results of the Company's competitive RFP 15 process. In Schedule J-2, the Company performed a comparison of propane purchase costs under the contract versus representative spot prices had the Company not 16 17 implemented the Plan. The analysis shows that the cost of the pre-purchased gallons was 13.4% higher than the average representative spot purchase cost for the first four months 18 of the current winter period, reflecting a decrease in spot propane prices over the pre-19 20 purchased volumes.

1	Q.	Has the Company issued a Request for Proposals ("RFP") to potential suppliers for
2		the 2023–2024 Plan?
3	A.	Yes. The Company issued the RFP for the 2023–2024 Plan on February 23, 2023. The
4		RFP process was the same as the process used last summer. The RFP was sent to thirteen
5		suppliers. Once a winning bidder has been selected, they will be notified.
6	Q.	Is the Company proposing any changes to the 2023–2024 Plan?
7	A.	No. The Plan structure specified in the RFP, as detailed on Schedule D-3, has not
8		changed from the design that was used for the previous winter. The Company will
9		purchase 700,000 gallons to maintain a consistent ratio of hedged volumes to expected
10		sales – approximately 64%, which also includes storage at the Amherst facility.
11	IV.	COMPRESSED NATURAL GAS COMMODITY COSTS
12	Q.	How was the cost of CNG purchases determined?
12 13	Q. A.	How was the cost of CNG purchases determined? The CNG costs are shown in Schedule C, lines 20 through 27. These costs reflect the
13		The CNG costs are shown in Schedule C, lines 20 through 27. These costs reflect the
13 14	А.	The CNG costs are shown in Schedule C, lines 20 through 27. These costs reflect the contractual agreement between the Company and its supplier, Xpress Natural Gas, LLC.
13 14 15	А. Q.	The CNG costs are shown in Schedule C, lines 20 through 27. These costs reflect the contractual agreement between the Company and its supplier, Xpress Natural Gas, LLC. Please describe the calculation of the Weighted Average Cost of Gas ("WACOG").
13 14 15 16	А. Q.	The CNG costs are shown in Schedule C, lines 20 through 27. These costs reflect the contractual agreement between the Company and its supplier, Xpress Natural Gas, LLC. Please describe the calculation of the Weighted Average Cost of Gas ("WACOG"). Schedule F contains the calculation of the expected weighted average cost of inventory
 13 14 15 16 17 	А. Q.	The CNG costs are shown in Schedule C, lines 20 through 27. These costs reflect the contractual agreement between the Company and its supplier, Xpress Natural Gas, LLC. Please describe the calculation of the Weighted Average Cost of Gas ("WACOG"). Schedule F contains the calculation of the expected weighted average cost of inventory for each month through October 2023. The unit cost of projected gas to be sent out each

1 Q. Wh

A.

2

What is the status of CNG currently?

2019. At present, the service territory for CNG is limited to the Monadnock Marketplace 3 and a small portion of Key Road. The Company's short-term plan involves 4 adding/converting more customers and expanding the natural gas footprint within this 5 limited area as contemplated in the Settlement Agreement.¹ Overall, there have only 6 been slight changes to the customer base at the Marketplace since last Fall. A couple of 7 vacant spaces have been inhabited by new tenants and two stores merged into one store. 8 There was also one new customer added, the New Hampshire State Police Barracks. The 9 Company is still pursuing the transition to partial renewable fuel (RNG) and issued a 10

As noted in prior testimony, the Company began serving customers with CNG in October

- 12 **Q.** When does the current CNG contract expire?
- 13 A. The current CNG contract expires on June 30, 2024.

14 Q. What is the price differential between the cost of spot propane and the cost of CNG?

request for proposals in late Fall of 2022. At this time, proposals are being evaluated.

- 15 A. For the upcoming off-peak period, spot propane is anticipated to be 26 cents per therm
- 16

11

more expensive than CNG. This determination of cost disparity between the two fuels

¹ "Phase 1 of the Keene conversion to natural gas shall consist of: (1) installation of the existing temporary CNG facility; (2) conversion of the propane-air customers' premises at the Monadnock Marketplace to natural gas as of the date of this Settlement; and (3) acquisition of customers at any additional premises not currently physically connected to the gas utility system in Keene after the date of this settlement who would be served CNG from both the existing CNG temporary facility and through existing mains." Settlement Agreement at Bates 14 (emphasis added).

1		can be performed using Spot Purchases cost per therm found on Schedule C, line 31, less
2		CNG Deliveries cost per therm found on Schedule C, line 24.
3	Q.	Does that comparison include the CNG demand charge?
4	А.	Yes.
5	Q.	Can you comment on market price conditions as compared to last summer?
6	А.	Yes, as compared to this time last Spring, commodity prices have decreased. Last year at
7		this time, for example, Mont Belvieu was forecasted to average \$1.33 per gallon for the
8		2022 summer period. This upcoming summer that index price is forecasted to average 87
9		cents per gallon- a 35% decrease. As for natural gas benchmark prices, NYMEX at this
10		time last year was averaging \$4.85 per dekatherm ("Dth") whereas today's forward
11		summer strip is averaging 3.17 per Dth's – a 35% decrease over last year. The
12		Company will continue to monitor market prices as these costs will directly impact the
13		rates that customers will pay this summer.
14	V.	BILL IMPACTS
15	Q.	What is the impact of the Summer 2023 COG rate on the typical residential heat
16		and hot water customer?
17	A.	As shown on Schedule K, Column 7, lines 24 and 25, the typical residential heat and hot
18		water customer would experience a decrease of \$38.54 or 28.7% in the gas component of
19		their bills compared to the prior summer period. When the monthly customer charge,
20		therm delivery charge, and LDAC are factored into the analysis, the typical residential

1	customer would see a total bill decrease of \$ 36.37 or 13.3%, as shown on lines 31 and
2	32.

3	Q.	Please describe the impact of the Summer 2023 COG rate on the typical commercial
4		customer compared to the prior summer period.
5	A.	As shown on Schedule L, Column 7, lines 26 and 27, the typical commercial customer
6		would experience a decrease of \$123.22 or 28.8% in the gas component of their bills
7		compared to the prior summer period. When the monthly customer charge, therm
8		delivery charge, and LDAC are factored into the analysis, the typical commercial
9		customer would see a total bill decrease of \$ 86.38 or 9.9%, as shown on lines 33 and 34.
10	VI.	CONCLUSION

11 Q. Does this conclude your testimony?

12 A. Yes, it does.

SUMMARY SUMMER 2023 COG Filing

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

CALCULATION OF COST OF GAS RATE SUMMARY SUMMER PERIOD 2023

Calculation of the Cost of Gas Rate

Period Cover	red:	Summer Period May 1, 2023 through	October 31, 2023	
Projected Ga	as Sales - therms			353,632
Total Calcula	ated Cost of Gas Send	out, including interest		\$548,698
Add:	Prior Period Deficier Interest	ncy Uncollected	\$0 \$0	
Deduct:	Prior Period (Excess Interest	s) Collected	(\$28,437) \$1,732	
	Prior Period Adjustn	nents and Interest		(\$26,705)
Total Anticipa	ated Cost			\$521,994
Cost of Gas	Rate			
Cost of Gas	Rate - Beginning Peric	od (per therm)		\$1.4761
		Company may adjust the approved nly basis to the following rate:		
Maximum Co	ost of Gas Rate - Non-	Fixed Price Option (per therm)		<u>\$1.8451</u>

REDACTED SCHEDULE A SUMMER 2023 COG Filing

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

CONVERSION OF COSTS - GALLONS TO THERMS SUMMER PERIOD 2023

	(1)	(2)	(3)	(4)	(5)	(6)
			VOLU	JMES	UNI	T COST
	<u>UNIT</u>	CONVERSION <u>FACTOR</u>	<u>GALLONS</u>	THERMS	PER <u>GALLON</u>	PER <u>THERM</u>
1 GAS FROM PROPANE INVENTORY	GALLONS	0.91502			\$1.359	6 \$1.4859
2 GAS FROM CNG	THERMS	N/A	N/A		N/A	
3 TOTAL				382,961		

REDACTED SCHEDULE B Page 1 of 2 SUMMER 2023 COG Filing

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

CALCULATION OF COST OF GAS RATE SUPPLY / DEMAND BALANCE SUMMER PERIOD 2023

LINE NO PRIOR May-23 Jun-23 Jul-23 Aug-23 Sep-23 Oct-23 TOTAL PROPANE COSTS	REFERENCE
1 PROPANE FIRM SENDOUT (therms)	Sch. I Col. 13 - Ln 8
2 COMPANY USE (therms)	Sch I Col. 11
3 TOTAL PROPANE SENDOUT (therms)	Ln 1 + Ln 2
	Sch F, Col. 3 (Less Sendout)
5 TOTAL CALCULATED COST OF PROPANE \$87,891 \$64,257 \$61,908 \$60,506 \$64,801 \$117,196 \$456,559 6 PROPANE ADJUSTMENTS \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
7 TOTAL COST OF PROPANE \$87,891 \$64,257 \$61,908 \$60,506 \$64,801 \$117,196 \$456,559	Ln 5 + Ln 6
CNG COSTS 8 CNG SENDOUT (therms)	Sch C, Ln 20
	Sch C, Ln 23 Ln 8 * Ln 9
	Sch C, Ln 26
12 PROJECTED INCREMENTAL COSTS SUMMER 2023 \$19 \$19 \$19 \$19 \$19 \$11 \$11 \$13 NET INCREMENTAL COSTS \$19 \$19 \$19 \$19 \$19 \$19 \$19 \$19 \$19 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$12 \$13 \$19 \$19 \$19 \$19 \$19 \$11 \$11 \$11 \$11 \$11 \$12 \$13 \$13 \$13 \$19 \$19 \$19 \$19 \$19 \$11 \$11 \$11 \$11 \$11 \$11 \$12 \$13 \$13 \$13 \$19 \$19 \$11 \$11 \$12 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$13 \$14 \$15 \$15 \$15 \$15 \$15 \$15	
14 TOTAL CNG COSTS \$16,400 \$13,639 \$13,997 \$14,082 \$14,750 \$19,690 \$92,557	Ln 10 + Ln 11 + Ln 13
15 ACCOUNTING ADJUSTMENT \$0 \$0 \$0 \$0 \$0 \$0 \$0	
16 FPO PREMIUM \$0 \$0 \$0 \$0 \$0 \$0 \$0	Ln 30 * .02 (N/A for summer period)
17 TOTAL COSTS OF GAS \$104,291 \$77,896 \$75,905 \$74,588 \$79,551 \$136,886 \$549,116	Ln 7 + Ln 14 + Ln 15 + Ln 16
18 RETURN ON INVENTORY \$0 \$0 \$0 \$0 \$0 \$0	Company calculation
REVENUES	
19 BILLED FPO SALES (therms) 0 0 0 0 0	
20 COG FPO RATE \$0.000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 <th< td=""><td></td></th<>	
22 BILLED NON-FPO SALES PRIOR MONTH (therms) 0 0 0 0 0 0	
23 COG NON-FPO RATE PRIOR MONTH \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000	
25 BILLED NON-FPO SALES CURRENT MONTH (therms) 66,280 49,014 47,418 47,093 52,842 90,985 353,632	Sch. J
26 COG NON-FPO RATE CURRENT MONTH \$1.4761 \$1.4761 \$1.4761 \$1.4761 \$1.4761 \$1.4761	(Ln 37 + Ln 17 + Ln 18 + Ln 36) / Ln 25 Ln 25 * Ln 26
28 BILLED SALES OTHER PRIOR PERIODS 0 0 0 0 0	
29 COG OTHER PRIOR PERIODS BLENDED RATE \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 <th< td=""><td></td></th<>	
31 TOTAL SALES 66,280 49,014 47,418 47,093 52,842 90,985 353,632	Sch. J
	Ln 21 + Ln 24 + Ln 27 + Ln 30
33 UNBILLED REVENUES (NET) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 <td< td=""><td></td></td<>	
	Ln 32 + Ln 33
	Ln 17 + Ln 18 - Ln 34
36 CUMULATIVE (OVER)/UNDER COLLECTION ELIGIBLE FOR INTEREST (\$26,705) (\$20,249) (\$14,856) (\$9,056) (\$4,061) (\$2,554) \$9	Prior Mo Ln 36 + Ln 35 + Ln 39
37 PRIME RATE 7.75% 7.75% 7.75% 7.75% 7.75%	
38 DAYS PER MONTH 31 30 31 30 31	
39 INTEREST AMOUNT (\$155) (\$112) (\$79) (\$43) (\$21) (\$8) (\$418)	(Prior Mo Ln 36 + Curr Mo Ln 36) /2 x Ln 37 / 36
40 FINAL CUMULATIVE (OVER)/UNDER COLLECTION WITH INTEREST (\$20,403) (\$14,968) (\$9,135) (\$4,104) (\$2,575) \$1	

REDACTED

					S (ENERGYNOR)										REDACTED SCHEDULE B Page 2 of 2 023 COG Filing
				LIBERTTUTILITIE	CALCU	LATION OF COST IPPLY / DEMAND R PERIOD 2022 R	OF GAS RATE BALANCE	SERT T - REENE L	JINIS ON						
L NE		(1) PR OR	(2) Actual	(3) Actual	(4) Actual	(5) Actual	(6) Actual	(7) Actual	(8) Actual	(9) Actual	(10) Actual Jan-23	(11) Actual	(12) Estimate Mar-23	(13) Estimate	(14)
NO	PROPANE COSTS PROPANE FIRM SENDOUT (therms)	PROR	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	TOTAL
1	COMPANY LISE (therms)														
2	TOTAL PROPANE SENDOUT (therms)														
4	COST PER THERM (WACOG)	_	\$1.6164	\$1.6534	\$1.6395	\$1.6296	\$1 5813	\$1.5377	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
5 6 7	TOTAL CALCULATED COST OF PROPANE PROPANE ADJUSTMENTS TOTAL COST OF PROPANE	_	\$1.0104 \$82,525 \$1 \$82,526	\$65,339 (\$0) \$65,339	\$62,236 \$1 \$62 237	\$61,479 \$0 \$61 479	\$68,081 \$68 081 \$68 081	\$119,762 \$0 \$119 762	\$0.0000 \$0 \$0 \$0	\$0.0000 \$0 \$0 \$0	\$0.0000 \$0 \$0 \$0	\$0.0000 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$459,422 \$2 \$459,424
8 9 10	CNG COSTS CNG SENDOUT (herms) COMPANY USE (therms) TOTAL CNG SENDOUT (therms)														
11 12 13 14	COST PER THERM TOTAL CALCULATED COST OF CNG CNG DEMAND CHARGES CNG ADJUSTMENTS		\$16 897	\$15 027	\$12 305	\$15 059	\$18 143	\$19 523	\$53	\$0	\$0	\$0	\$0	\$0	\$97 007
15 16 17	UND SUDUCTIVITY OF THE ADD SUMMER TO WINTER TOTAL CALCULATED COST OF CNG PLUS DEMAND CHARGES AND ADJUSTMENTS CNG PER THERM RATE		\$1.379	(\$1.886)	\$1.416	\$1.664	\$1.606	\$1.182							
18 19 20 21 22	INCREMENTAL COSTS SUMMER 2019 PER Order # 26 505 in DG 20-105 INCREMENTAL COSTS SUMMER 2020 PER Order # 26 505 in DG 20-105 INCREMENTAL COSTS SUMMER 2021 PROJECTED INCREMENTAL COSTS SUMMER 2022 NET INCREMENTAL COSTS														
23	TOTAL CNG COSTS														
24	FPO PREMIUM		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0 0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
25	TOTAL COSTS OF GAS														
26	RETURN ON INVENTORY		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	REVENUES														
27 28 29	BILLED FPO SALES (therms) COG FPO RATE BILLED FPO REVENUES	-	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0 0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0
30 31 32	BILLED NON-FPO SALES PRIOR MONTH (therms) COG NON-FPO RATE PRIOR MONTH BILLED NON-FPO REVENUES	_	0 \$0.0000 \$0	8,515 \$2.4835 \$21,147	12,315 \$1.6220 \$19,976	12,803 \$2.0198 \$25,860	12,654 \$1,8336 \$23,202	3.665 \$2.0114 \$7.372	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$1.9203 \$0	49,952 \$97,555
33 34 35	BILLED NON-FPO SALES CURRENT MONTH (therms) COG NON-FPO RATE CURRENT MONTH BILLED NON-FPO REVENUES	_	37,681 \$2.4835 \$93 580	35,831 <u>\$1.6220</u> \$58 118	32,777 \$2.0198 \$66 204	33,353 \$1.8336 \$61 156	33,413 \$2 0114 \$67 207	11,821 <u>\$1.9203</u> \$22 700	0 <u>\$0.0000</u> \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 \$0.0000 \$0	0 <u>\$1.9203</u> \$0	0 \$0.0000 \$0	184,876 \$368 964
36 37 38	BILLED SALES OTHER PRIOR PERIODS COG OTHER PRIOR PERIODS BLENDED RATE BILLED OTHER PR OR PERIODS REVENUES	-	180 \$1.2524 \$225	0 \$0.0000 \$0	4 <u>\$2.4825</u> \$10	16 \$1.6220 \$26	(17) \$2 0732 (\$35)	1 \$1.8336 \$2	4 336 \$1.9259 \$8,351	255 \$1.9355 \$494	90 973 <u>\$1.9390</u> \$176,401	4 (\$2.1575) (\$9)	0 <u>\$0.0000</u> \$0	0 \$0.0000 \$0	95 752 \$185,464
39	TOTAL SALES		37,860	44,346	45,097	46,172	46,049	15,487	4,336	255	90,973	4	0	0	330,580
40	TOTAL B LLED REVENUES		\$93,805	\$79,265	\$86,189	\$87,042	\$90,373	\$30,074	\$8,351	\$494	\$176,401	(\$9)	\$0	\$0	\$651,983
41	UNBILLED REVENUES (NET)		\$5,622	\$14,976	(\$12,755)	\$15,602	(\$23,444)	\$156,861	(\$156,861)	\$0	\$0	\$0	\$0	\$0	\$0
42	TOTAL REVENUES	_	\$99,427	\$94,240	\$73,434	\$102,643	\$66,929	\$186,935	(\$148,510)	\$494	\$176,401	(\$9)	\$0	\$0	\$651,983
43	(OVER)/UNDER COLLECTION		\$19,196	(\$49,784)	\$3,319	(\$25,544)	\$19,628	(\$44,427)	\$150,855	\$1,798	(\$174,109)	\$2,300	\$2,292	\$2,292	(\$92,185)
44	CUMULATIVE (OVER)/UNDER COLLECTION ELIGIBLE FOR INTEREST	\$63,748	\$82,944	\$33,378	\$36,888	\$11,485	\$31,226	(\$13,104)	\$137,799	\$139,917	(\$33,366)	(\$30,726)	(\$28,625)	(\$26,529)	
	PR ME RATE		3.50%	4.00%	4.75%	5.50%	5.50%	6.25%	6.25%	7.00%	7.50%	7.75%	7.75%	7.75%	
46	DAYS PER MONTH		31	30	31	31	30	31	30	31	31	28	31	30	
47	NTEREST AMOUNT		\$218	\$191	\$142	\$113	\$97	\$48	\$320	\$826	\$339	(\$191)	(\$195)	(\$176)	\$1,732
48	FINAL CUMULATIVE (OVER)/UNDER COLLECTION WITH INTEREST		\$83 162	\$33 569	\$37 030	\$11 598	\$31 323	(\$13 056)	\$138 119	\$140 743	(\$33 027)	(\$30 917)	(\$28 821)	(\$26 705)	

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\$0 2583

REDACTED SCHEDULE C SUMMER 2023 COG Filing

LIBERTY UT LITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A L BERTY - KEENE DIVISION

CALCULATION OF PURCHASED GAS COSTS SUMMER PERIOD 2023

TOTAL REQU RED PURCHASES PROPANE PURCHASE STABILIZATION PLAN DELIVERIES THERMS				Aug-23	Sep-23	Oct-23	TOTAL
THERMS							382,961
	<u>-</u>	-	-	-			
	-	-	-	-	-	-	-
RATES -	¢0,000	¢0.0000	¢0,0000	¢0,0000	¢0,0000	¢0,0000	
Contract Price Broker Fee	\$0.0000 incl.	\$0 0000 incl.	\$0.0000 incl.	\$0.0000 incl.	\$0 0000 incl.	\$0.0000 incl.	
Pipeline Fee	incl.	incl.	incl.	incl.	incl.	incl.	
PERC Fee	incl.	incl.	incl.	incl.	incl.	incl.	
Trucking Fee	incl.	incl.	incl.	incl.	incl.	incl.	
COST PER THERM	\$0.0000	\$0 0000	\$0.0000	\$0.0000	\$0 0000	\$0.0000	
TOTAL COST - Propane Purchase Stabilization Plan Deliveries	s \$0	\$0	\$0	\$0	\$0	\$0	\$0
AMHERST STORAGE PROPANE DELIVERIES							
Therms	-	-	-	-	-	-	
RATES - from Schedule F	AA 447-7	A 4 A A A A A A A A A A	* 4 9 9 9 5	* + * * *	*	* / * *	
	\$0.0000	\$1 6000	\$1.6000	\$1.6000	\$1 6000 \$0 0050	\$1.6000	
Trucking Fee COST PER THERM	\$0.0000 \$0.0000	\$0 0650 \$1 6650	\$0.0650 \$1.6650	\$0.0650 \$1.6650	\$0 0650 \$1 6650	\$0.0650 \$1.6650	
TOTAL COST - Amherst Storage Propane Deliveries	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL COOT - Annelst Clorage Tropane Delivenes	40	ψυ	ψυ	ψυ	ψυ	ψŪ	φυ
CNG DELIVERIES							
THERMS							
RATE							
COST PER THERM							
COST - CNG							
DEMAND FIXED \$110,000 Annual 75% Peak							
TOTAL CNG							
SPOT PURCHASES							
THERMS							
From Schedule E COST PER THERM							_
TOTAL COST - Spot Purchases							
OTHER ITEMS							
	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Storage Refund of Deferred Revenue Surcharge over collection	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Storage							
Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS							
Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS 							
Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS							
Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS TOTAL THERMS FROM PROPANE COST							
Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS <u>TOTAL</u> THERMS FROM PROPANE							
Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS TOTAL THERMS FROM PROPANE COST THERMS FROM CNG	\$1.4024	\$1.4298	\$1.4469	\$1.4501	\$1.4272	\$1.4269	\$1.4285

SUBJECT TO CONFIDENTIAL TREATMENT

REDACTED SCHEDULE D-1

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

	Mt. Belvieu		Pipeline	Bro	oker + Suppl	ier					Keene Div.	Contract	Keene Div.	Fixed	Plan	Contract	Plan	Cost	Per Gallon
	Price		Rate		Fee		PERC		Trucking		Price	Volumes	Cost	Basis Bid	Price	Volumes	Cost	Premium	Premium
Apr-22	\$1.1712	+	\$0.2579	+	\$0.1000	+	\$0.0050	+	\$0.1145	=	\$1.6486	140,000	\$230,801			140,000			-\$0.1122
May-22	\$1 2281	+	\$0.2579	+	\$0.1000	+	\$0.0050	+	\$0.1145	=	\$1.7055	105,000	\$179,078			105,000			-\$0.1122
Jun-22	\$1 2414	+	\$0.2579	+	\$0.1000	+	\$0.0050	+	\$0.1145	=	\$1.7188	105,000	\$180,469			105,000			-\$0.1122
Jul-22	\$1.1515	+	\$0.2579	+	\$0.1000	+	\$0.0050	+	\$0.1145	=	\$1.6289	140,000	\$228,049			140,000			-\$0.1122
Aug-22	\$1.0323	+	\$0.2579	+	\$0.1000	+	\$0.0050	+	\$0.1145	=	\$1.5097	105,000	\$158,520			105,000			-\$0.1122
Sep-22	\$1.0203	+	\$0.2579	+	\$0.1000	+	\$0.0050	+	\$0.1145	=	\$1.4977	105,000	\$157,253			105,000			-\$0.1122
Total												700,000	\$1,134,170			700,000			-\$0.1122

REDACTED SCHEDULE D-2

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

Delivery Month	Contract Price (1)	Contract Volumes (2)	Contract Cost (3)	Average Spot Price (4)	Contract Volumes (5)	Hypothetical Spot Cost (6)	Incremental Cost / (Savings) of Plan (7)
			(1) x (2)			(4) x (5)	(3) - (6)
Nov-22		92,000		\$1.2716	92,000	\$116,986	\$21,750
Dec-22		140,000		\$1.1744	140,000	\$164,411	\$46,709
Jan-23		165,000		\$1.4860	165,000	\$245,190	\$3,630
Feb-23		135,000		\$1.3382	135,000	\$180,658	\$22,922
Total						\$707,245	\$95,011
	•					•	13.4%

COMPARISON OF CONTRACT COST TO HYPOTHETICAL SPOT COST WINTER SEASON 2022–2023 TO DATE

SCHEDULE D-3

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

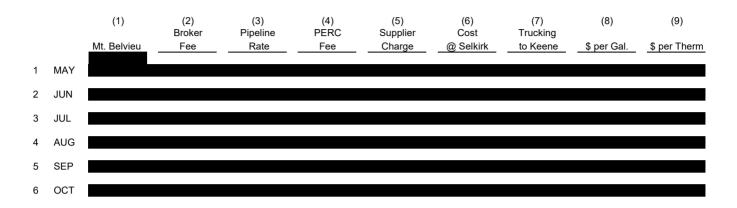
Delivery			Pre-P				
Month	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Total
Nov-23	18,400	13,800	13,800	18,400	13,800	13,800	92,000
Dec-23	28,000	21,000	21,000	28,000	21,000	21,000	140,000
Jan-24	33,000	24,750	24,750	33,000	24,750	24,750	165,000
Feb-24	27,000	20,250	20,250	27,000	20,250	20,250	135,000
Mar-24	21,000	15,750	15,750	21,000	15,750	15,750	105,000
Apr-24	12,600	9,450	9,450	12,600	9,450	9,450	63,000
Total	140,000	105,000	105,000	140,000	105,000	105,000	700,000
Monthly %	20.0%	15.0%	15.0%	20.0%	15.0%	15.0%	

PROPANE PURCHASING STABILIZATION PLAN PRE-PURCHASES AND DELIVERY SCHEDULE

REDACTED SCHEDULE E SUMMER 2023 COG Filing

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

PROPANE SPOT MARKET PURCHASE COST ANALYSIS SUMMER PERIOD 2023



1. Propane futures market quotations (cmegroup.com) on 3/7/23 close. See Appendix 1.

2. A generally accepted standard broker fee

3. Pipeline rate from Mt. Belvieu to Selkirk

4. Propane Education Research Council (propanecouncel.org)

5. A generally accepted standard supplier charge

6. Selkirk Cost - all fees plus propane cost

7. Northern Gas Transport trucking rate including diesel fuel surcharge. See Appendix 3A & 3B.

8. Delivered Price per Gallon

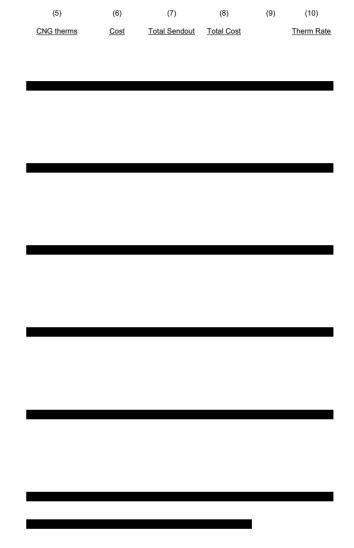
9. Delivered Price per therm as converted using per gallon price / .91502

REDACTED SCHEDULE F SUMMER 2023 COG Filing

LIBERTY UT LITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A L BERTY - KEENE DIVISION

NVENTORY & WEIGHTED AVERAGE COST OF GAS CALCULATION SUMMER PERIOD 2023

L NE NO		(1)	(2)	(3)	(4)
1	May 2023 (Forecasted)	Therms	Cost	Therm	<u>Rate</u> Gal.
2 3 4 5 6	Beginning Balance Purchases Received Total Available Less Sendout Ending Balance	77,606 57,271 134,877 57,271 77,606	\$122,994 \$83,994 \$206,988 \$87,891 \$119,097	\$1 5849 \$1.4666 \$1 5346 \$1 5347 \$1 5346	\$1.4502 \$1 3420 \$1.4042 \$1.4042 \$1.4042
7	June 2022 (Forecasted)	Therms	<u>Cost</u>	Therm	<u>Rate</u> <u>Gal.</u>
8 9 10 11 12	Beginning Balance Purchases Received Total Available Less Sendout Ending Balance	77,606 42,525 120,131 42,525 77,606	\$119,097 \$62,425 \$181,522 \$64,257 \$117,265	\$1 5346 \$1.4680 \$1 5110 \$1 5110 \$1 5110	\$1.4042 \$1 3432 \$1 3826 \$1 3826 \$1 3826
13	July 2023 (Forecasted)	Therms	<u>Cost</u>	Therm	<u>Rate</u> <u>Gal.</u>
14 15 16 17 18	Beginning Balance Purchases Received Total Available Less Sendout Ending Balance	77,606 41,354 118,960 41,354 77,606	\$117,265 \$60,819 \$178,085 \$61,908 \$116,177	\$1 5110 \$1.4707 \$1.4970 \$1.4970 \$1.4970	\$1 3826 \$1 3457 \$1 3698 \$1 3698 \$1 3698
19	August 2023 (Forecasted)	Therms	<u>Cost</u>	Therm	<u>Rate</u> Gal.
	Beginning Balance				
20 21 22 23 24	Purchases Received Total Available Less Sendout Ending Balance	77,606 40,612 118,218 40,612 77,606	\$116,177 \$59,950 \$176,127 \$60,506 \$115,621	\$1.4970 \$1.4762 \$1.4899 \$1.4899 \$1.4898	\$1 3698 \$1 3507 \$1 3632 \$1 3632 \$1 3632
21 22 23	Purchases Received Total Available Less Sendout	40,612 118,218 40,612	\$59,950 \$176,127 \$60,506	\$1.4762 \$1.4899 \$1.4899	\$1 3507 \$1 3632 \$1 3632
21 22 23 24	Purchases Received Total Available Less Sendout Ending Balance	40,612 118,218 40,612 77,606	\$59,950 \$176,127 \$60,506 \$115,621	\$1.4762 \$1.4899 \$1.4899 \$1.4898	\$1 3507 \$1 3632 \$1 3632 \$1 3632 \$1 3632 <u>Rate</u>
21 22 23 24 25 26 27 28 29	Purchases Received Total Available Less Sendout Ending Balance September 2023 (Forecasted) Beginning Balance Purchases Received Total Available Less Sendout	40,612 118,218 40,612 77,606 <u>Therms</u> 77,606 45,400 123,006 45,400	\$59,950 \$176,127 \$60,506 \$115,621 \$115,621 \$59,950 \$175,571 \$64,801	\$1.4762 \$1.4899 \$1.4899 \$1.4898 <u>Therm</u> \$1.4898 \$1 3205 \$1.4273 \$1.4273	\$1 3507 \$1 3632 \$1 3632 \$1 3632 \$1 3632 <u>Rate</u> <u>Gal.</u> \$1 3632 \$1 2083 \$1 3060 \$1 3060
21 22 23 24 25 26 27 28 29 30	Purchases Received Total Available Less Sendout Ending Balance September 2023 (Forecasted) Beginning Balance Purchases Received Total Available Less Sendout Ending Balance October 2023 (Forecasted) Beginning Balance Purchases Received Total Available Less Sendout Ending Balance	40,612 118,218 40,612 77,606 Therms 77,606 45,400 123,006 45,400 77,606 Solution 77,606 Solution 157,712 80,106 77,606	\$59,950 \$176,127 \$60,506 \$115,621 \$115,621 \$115,621 \$59,950 \$175,571 \$64,801 \$110,770	\$1.4762 \$1.4899 \$1.4899 \$1.4898 \$1.4898 \$1.4898 \$1.3205 \$1.4273 \$1.4273 \$1.4273 \$1.4273 \$1.4273 \$1.4273 \$1.4976 \$1.4976	\$1 3507 \$1 3632 \$1 3632 \$1 3632 \$1 3632 <u>Rate</u> <u>Gal.</u> \$1 3632 \$1 3632 \$1 3632 \$1 3060 \$1 3060 \$1 3060 \$1 3060 <u>Rate</u>



SCHEDULE I SUMMER 2023 COG Filing

	L BERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION Weather Normalization - Firm Sendout (Therms)														
Period	Actual Firm Sendout	Base Use	Heat Use	Actual Calendar Month Degree Days	Normal Calendar Month Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normalized Firm Sendout	Actual Company Use	Unaccounted For 2.11%	Total Firm Sendout		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)		
			(1) - (2)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)		(10 - 11) * 2.11%	(10) - (11) + (12		
May-22	66,833	50,180	16,653	250	299	(49)	66.61	3,264	19,917	70,097	2,320	1,479	69,256		
Jun-22	52,200	50,180	2,020	109	103	6	18.53	(111)	1,909	52,089	2,021	1,099	51,167		
Jul-22	50,374	50,180	194	10	23	(13)	19.40	252	446	50,626	2,065	1,068	49,629		
Aug-22	49,986	50,180	0	22	43	(21)	0.00	0	0	49,986	1,878	1,055	49,163		
Sep-22	58,592	50,180	8,412	262	194	68	32.11	(2,183)	6,229	56,409	2,588	1,190	55,011		
Oct-22	99 072	50 180	48 892	575	537	38	85.03	(3 231)	45 661	95 841	2 961	2 022	94 902		
Total	377,057	301,080	76,171	1,228	1,199	29		(2,009)	74,162	375,048	13,833	7,914	369,128		

SCHEDULE J SUMMER 2023 COG Filing

					NORTH NATURAL (Iormaliza ion - Sales				T		
Period	Customers	Sales	Base Load	Heating Load	Monthly Actual Degree Days	Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normal Fir Billing Cyc Therms
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				(1) - (2)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (
May-22	884	12,109	6,136	5,973	250	299	(49)	23.89	1,171	7,144	13,280
Jun-22	843	6,878	6,136	742	109	103	6	6.81	(41)	701	6,837
Jul-22	862	6,230	6,136	94	10	23	(13)	9.40	122	216	6,352
Aug-22	860	6,042	6,136	0	22	43	(21)	0.00	0	0	6,042
Sep-22	862	8,528	6,136	2,392	262	194	68	9.13	(621)	1,771	7,907
Oct-22	893	19,628	6,136	13,493	575	537	38	23.47	(892)	12,601	18,737
Total		59,414	36,814	22,694	1,228	1,199	29	8.98	(260)	22,434	59,155
	1		LIBERTY UT		NORTH NATURAL (ormalization - Sales			NE DIVISION			
Period	Customers	Sales	Base Load	Heating Load	Monthly Actual Degree Days	Monthly Normal Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normal Fir Billing Cyc Therms
T CHOU	Oustonicis	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				(1) - (3)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (
May-22	323	51,043	41,056	9,987	250	299	(49)	39.95	1,957	11,945	53,000
Jun-22	311	42,243	41,056	1,187	109	103	6	10.89	(65)	1,122	42,177
Jul-22	319	41,060	41,056	4	10	23	(13)	0.44	6	10	41,066
Aug-22	317	41,051	41,056	0	22	43	(21)	0.00	0	0	41,051
Sep-22	318	46,294	41,056	5,239	262	194	68	20.00	(1,360)	3,879	44,935
Oct-22	313	74,455	41,056	33,399	575	537	38	58.09	(2,207)	31,192	72,248
Total		296,146	246,334	49,816	1,228	1,199	29	57.55	(1,669)	48,147	294,477
				Summary	- Total Summer Sea	ason Sales					
							-				
					Actual 2022						
				Мау	63,152						
				June	49,120	49,014					
				July	47,290	47,418					
				August	47,093	47,093					
				• • •	= 1 000	50.040					
				September	54,822						
				October	54,822 94,083 355,560	52,842 90,985 353,632	_				

SCHEDULE K SUMMER 2023 COG Filing

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION Typical Residential Heating Bill - Non-Fixed Price Option Program Forecasted 2023 Summer Period vs. Actual 2022 Summer Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1							Summer
2	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	May-Oct
3 Typical Usage - therms (1)	21	10	7	7	8	12	65
4 Residential Heating R-3 May-22-Jul-22 Aug-22 Sep-22-Oct-22							
5 Customer Charge \$15.39 \$15 39 \$15 39	\$15 39	\$15.39	\$15.39	\$15.39	\$15.39	\$15 39	\$92.34
6 Delivery Charge: All therms @ \$0.5632 \$0.6337 \$0.6519	\$11 83	\$5.63	\$3.94	\$4.44	\$5.22	\$7 82	\$38.88
7 Base Delivery Revenue Total	\$27 22	\$21.02	\$19.33	\$19.83	\$20.61	\$23 21	\$131.22
8 COG Rates	\$2.4835	\$1 6220	\$2 0198	\$1 8336	\$2.0114	\$1.9203	\$2.0689
9 Cost of Gas Total	\$52.15	\$16.22	\$14.14	\$12.84	\$16.09	\$23 04	\$134.48
10 LDAC Rates	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1317
11 LDAC Total	\$2.77	\$1.32	\$0.92	\$0.92	\$1.05	\$1 58	\$8.56
12 Total Bill	\$82	\$39	\$34	\$34	\$38	\$48	\$274
13							Summer
14	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	May-Oct
15 Typical Usage - therms (1)	21	10	7	7	8	12	65
16 Residential Heating R-3							
17 Customer Charge \$15.39	\$15 39	\$15.39	\$15.39	\$15.39	\$15.39	\$15 39	\$92.34
18 Delivery Charge: All therms @ \$0.6519	\$13 69	\$6.52	\$4.56	\$4.56	\$5.22	\$7 82	\$42.37
19 Base Delivery Revenue Total	\$29.08	\$21.91	\$19.95	\$19.95	\$20.61	\$23.21	\$134.71
20 Seasonal Base Delivery Difference from previous year							\$3.49
21 Seasonal Percent Change from previous year							2.7%
22 COG Rates	\$1.4761	\$1.4761	\$1.4761	\$1.4761	\$1.4761	\$1.4761	\$1.4760
23 Cost of Gas Total	\$31.00	\$14.76	\$10.33	\$10.33	\$11.81	\$17.71	\$95.94
24 Seasonal COG Difference from previous year							-\$38.54
25 Seasonal Percent Change from previous year							-28.7%
26 LDAC Rates	\$0.1113		\$0.1113		\$0.1113		\$0.1114
27 LDAC Total	\$2.34	\$1.11	\$0.78	\$0.78	\$0.89	\$1.34	\$7.24
28 Seasonal LDAC Difference from previous year							-\$1.32
29 Seasonal Percent Change from previous year							-15.4%
30 Total Bill	\$62	\$38	\$31	\$31	\$33	\$42	\$237.89
31 Seasonal Total Bill Difference from previous year							-\$36.37
32 Seasonal Percent Change from previous year							-13 3%
33 Seasonal Percent Change resulting from COG							-14.1%
34 Seasonal Percent Change resulting from LDAC							-0 5%

35 (1) Residential Heating Typical Usage: Residence using gas for heat, hot water and cooking.

SCHEDULE L SUMMER 2023 COG Filing

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION Typical Commercial Bill - Fixed Price Option Program Forecasted 2023 Summer Period vs. Actual 2022 Summer Period

Minter Winter 2 May-22 Jui-22 Jui-22 Jui-22 Qui-22 Sep-22-Oct-22 Nov-Apr 3 Commercial G-41 May-22-Jui-22 Aug-22 Sep-22-Oct-22 Nov-Apr Sep-22-Oct-24 Sep-22-Oct-22 Nov-Apr Sep-22-Oct-22 Nov-Apr Sep-22-Oct-22 Sep-22-Oct-23 Nov-Apr Sep-22-Oct-23 Nov-Apr								(1)	(2)	(3)	(4)	(5)	(6)	(7)
3 Typical Usage - therms 67 30 22 20 27 40 206 4 Commercial G-41 May-22-Jul-22 Sep-22-Oct-22 Sep-22-Oct-22 Sep-32-Oct-22 Sep-32-Oct-32 Sep-32-Oct-32 <td>1</td> <td></td> <td>Winter</td>	1													Winter
4 Commercial G-41 May-22-Jul-22 Aug-22 Sep-32-Oct-22 Store Strue StoreStrue Store Strue <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
5 Customer Charge \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 <td>3</td> <td>,</td> <td>pical Usag</td> <td>e - therms</td> <td></td> <td></td> <td></td> <td>67</td> <td>30</td> <td>22</td> <td>20</td> <td>27</td> <td>40</td> <td>206</td>	3	,	pical Usag	e - therms				67	30	22	20	27	40	206
6 Delivery Charge: First 20 therms @ \$0.4688 \$0.5007 \$0.5088 \$9.38 \$9.38 \$9.38 \$9.38 \$9.38 \$9.00 \$2.49 \$7.10 \$28.17 Base Delivery Revenue Total \$0.315 \$0.63 \$0.00 \$2.49 \$7.10 \$28.17 COG Rates \$2.4335 \$1.620 \$2.0198 \$1.836 \$2.014 \$1.9203 \$2.0742 IDAC Rates \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 \$0.091 <t< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-													
7 0ver 20 therms \$0.3149 \$0.3469 \$0.3550 \$14.80 \$3.15 \$0.63 \$0.00 \$2.49 \$7.10 \$28.17 8 Base Delivery Revenue Total \$24.35 \$16.24 \$69.59 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07 \$67.07	5													
8 Base Delivery Revenue Total \$81.24 \$80.90 \$67.07 \$60.73 \$74.34 \$429.04 9 COG Rates \$2.4835 \$1.6220 \$2.0196 \$1.836 \$2.431 \$76.81 \$427.25 10 LDAC Rates \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 <td< td=""><td>6</td><td>Delivery Charge:</td><td></td><td>therms @</td><td>\$0.4688</td><td>\$0.5007</td><td>\$0.5088</td><td>\$9.38</td><td>\$9.38</td><td>\$9.38</td><td>\$10 01</td><td>\$10.18</td><td>\$10.18</td><td>\$58.51</td></td<>	6	Delivery Charge:		therms @	\$0.4688	\$0.5007	\$0.5088	\$9.38	\$9.38	\$9.38	\$10 01	\$10.18	\$10.18	\$58.51
9 COG Rates \$2.435 \$1.620 \$2.0198 \$1.836 \$2.0114 \$1.9203 \$2.0742 10 Cost of Gas Total \$166.39 \$48.66 \$44.44 \$36 67 \$54.31 \$76.81 \$427.81 11 LDAC Rates \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.090 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.080 \$0.0800 \$0.080 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800 \$0.0800	7	-		therms @	\$0 3149	\$0.3469	\$0.3550	\$14.80						
10 Cost of Gas Total \$166.39 \$48.66 \$44.44 \$36.67 \$54.31 \$76.81 \$427.28 11 LDAC Rates \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.091 \$0.091 \$0.091 \$0.081 \$0.081 \$0.81 \$0.61 \$0.81 \$0.663 \$0.081 \$0.61	8	Base Delivery Reve	nue Total											
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Total Bill \$254 \$121 \$114 \$106 \$127 \$155 \$877 14	11	LDAC Rates						\$0.0991	\$0.0991	\$0.0991	\$0 0991	\$0.0991	\$0.0991	\$0.0991
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16 Typical Usage - therms 67 30 22 20 27 40 206 17 Commercial G-41 Customer Charge \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30	14													Winter
17 Commercial G-41 563.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 </td <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>May-23</td> <td></td> <td></td> <td>Aug-23</td> <td>Sep-23</td> <td>Oct-23</td> <td>Nov-Apr</td>	15							May-23			Aug-23	Sep-23	Oct-23	Nov-Apr
18 Customer Charge \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 \$63.30 </td <td>16</td> <td>Ty</td> <td>pical Usag</td> <td>e - therms</td> <td></td> <td></td> <td></td> <td>67</td> <td>30</td> <td>22</td> <td>20</td> <td>27</td> <td>40</td> <td>206</td>	16	Ty	pical Usag	e - therms				67	30	22	20	27	40	206
19 Delivery Charge: First 20 therms @ \$0 5088 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.18 \$10.111 \$10.111 \$10.17	17	Commercial G-41												
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22 Seasonal Base Delivery Difference from previous year \$38.92 23 Seasonal Percent Change from previous year 9.1% 24 COG Rates \$1.4761 \$1.4761 \$1.4761 \$1.4761 \$1.4761 \$1.4761 \$1.4761 \$1.4761 25 Cost of Gas Total \$98.90 \$44.28 \$32.47 \$29.52 \$39.85 \$59.04 \$304.06 26 Seasonal COG Difference from previous year -\$12.322 27 Seasonal Percent Change from previous year -\$28.8% 20 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0	20	-		therms @	\$0 3550			\$14.80	\$3.15		\$0 00			\$27.08
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28 LDAC Rates \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890 \$0.0890	26	Seasonal COG Differ	rence from	previous year										-\$123.22
29LDAC Total\$5.96\$2.67\$1.96\$1.78\$2.40\$3.56\$18.3330Seasonal LDAC Difference from previous year-\$2.08-10.2%31Seasonal Percent Change from previous year-10.2%-10.2%32Total Bill\$193\$124\$109\$105\$118\$142\$79033Seasonal Percent Change from previous year-\$86.38-\$9.9%-\$9.9%35Seasonal Percent Change resulting from COG-14.1%			nange from	previous year										-28.8%
30 Seasonal LDAC Difference from previous year -\$2.08 31 Seasonal Percent Change from previous year -10.2% 32 Total Bill \$193 \$124 \$109 \$105 \$118 \$142 \$790 33 Seasonal Total Bill Difference from previous year -\$86.38 -\$86.38 -\$86.38 34 Seasonal Percent Change from previous year -\$9.9% -\$9.9% -14.1%								\$0.0890	\$0.0890	\$0.0890	\$0 0890		\$0.0890	\$0.0890
31 Seasonal Percent Change from previous year -10.2% 32 Total Bill \$193 \$124 \$109 \$105 \$118 \$142 \$790 33 Seasonal Total Bill Difference from previous year \$124 \$109 \$105 \$118 \$142 \$790 34 Seasonal Percent Change from previous year \$42 \$42 \$9,9% 35 Seasonal Percent Change resulting from COG \$44,1% \$44,1%	29							\$5.96	\$2.67	\$1.96	\$1.78	\$2.40	\$3.56	
32Total Bill\$193\$124\$109\$105\$118\$142\$79033Seasonal Total Bill Difference from previous year-\$86.3834Seasonal Percent Change from previous year-\$9.9%35Seasonal Percent Change resulting from COG-14.1%	30	Seasonal LDAC Diffe	erence from	i previous year										-\$2.08
33 Seasonal Total Bill Difference from previous year -\$86.38 34 Seasonal Percent Change from previous year -9.9% 35 Seasonal Percent Change resulting from COG -14.1%	31	Seasonal Percent Ch	nange from	previous year										-10.2%
34Seasonal Percent Change from previous year-9.9%35Seasonal Percent Change resulting from COG-14.1%	32	Total Bill						\$193	\$124	\$109	\$105	\$118	\$142	\$790
35 Seasonal Percent Change resulting from COG -14.1%	33	Seasonal Total Bill Di	ifference fr	om previous ye	ear									-\$86.38
	34													-9.9%
36 Seasonal Percent Change resulting from LDAC -0.2%	35	Seasonal Percent Ch	nange resul	ting from COG										-14.1%
	36	Seasonal Percent Ch	nange resul	ting from LDAC										-0.2%

REDACTED SCHEDULE M SUMMER 2023 COG Filing

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION PROJECTED INCREMENTAL COSTS CNG VS. SPOT PROPANE Summer 2023

	(1) Projected	(2) Projected	(3) Projected	(4) Projected	(5) Projected	(6) Projected	(7)
1 CNG PURCHASES	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	
2 CNG Volumes (Schedule C Filing)							
3							
4 CNG Costs (Schedule C Filing)							
5 Total Cost per Actual CNG Costs (Schedule C Filing)							
6							
7 CNG Cost Per Therm Actual							
8							
9 SPOT PROPANE PURCHASES							
10 Spot Propane Volumes (Schedule C Reconciliation)							
11							
12 Total Costs Spot Propane							
13 Total Cost Spot Propane							
14							
15 Spot Propane Cost Per Therm Actual							
16							
17							
18							
19 CNG Volumes							
20 Price difference CNG vs Spot Propane							
21 Adj. for rounding	\$-	\$-	\$-	\$-	\$-	\$-	\$0.000
22 Incremental Costs Propane	\$ 4,598	\$ 2,03	3 \$ 1,229	\$ 1,332	\$ 3,399	\$ 6,921	\$19,511
23							
24					5	0% if CNG higher	2
25					Allowed R	ecoverable Costs \$	19,511

SCHEDULE N SUMMER 2023 COG Filing

	Incremental CNG Supply Costs through October 2022											
	Amount to be Recovered/(Refunded) Through Keene COG Rates											
	Col. A Col. B Col. C Col. D Col. E Col. F Col. G											
1	CNG Increment Cost/Saving Risk Sharing - 50% Shareholder/Ratepayers											
2	In	crement	al CNG Supply Co	sts - October 2019 thru	October 2022							
				Allowed Recoverable								
				Amount from	Incremental	Incremental						
			Incremental	Customers due to	Costs Not	Costs not						
			Cost/(Savings)	Higher/(Lower) CNG	Recoverable/D	Recovered						
3	COG Period	Year	Amount	vs Propane Costs	eferred	Balance	(Refund)/Charge					
4	Summer (DG 20-105 Settlement Agr	2019	5,048	2,524	2,524	2,524	(2,524)	Propane Cheaper				
5	Summer (DG 20-105 Settlement Agr	2020	16,214	8,107	8,107	10,631	8,107	Propane Cheaper				
6	Summer (DG 21-050 Recon)	2021	(13,026)	(10,631)	(2,395)	(2,395)	10,631	CNG Cheaper tha				
7	Summer (DG 22-015 Recon)	2022	5,012	2,506	2,506	111	(2,506)	Propane Cheaper				
8	Summer 2023 projected	2023	(19,511)	(111)	(19,400)	(19,400)	111					

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

ACTUAL INCREMENTAL SAVINGS CNG VS. SPOT PROPANE SUMMER 2022

CNG PURCHASES	Actual May-22	Actual Jun-22	Actual Jul-22	Actual Aug-22	Actual Sep-22	Actual Oct-22	
CNG Volumes (Schedule K)	may-22	0011-22	001-22	Aug-22	000-22	000-22	
CNG Costs (Schedule K)							
Total Cost per Actual CNG Costs (Schedule K)							
CNG Cost Per Therm Actual							
SPOT PROPANE PURCHASES							
Spot Propane Volumes (Schedule K)							
Total Costs Spot Propane							
Total Cost Spot Propane							
Spot Propane Cost Per Therm Actual							
CNG Volumes							
Price difference CNG vs Spot Propane							
Adj. for rounding Incremental Costs Propane							\$0.000 \$5,012

Divided by 2 2 Allowed Recoverable Costs \$ 2,506

APPENDIX 1 SUMMER 2023 COG Filing

MONT BELVIEU PROPANE FUTURES - 3/7/23 CLOSE

MONT BELVIEU LDH PROPANE (OPIS) FUTURES - SETTLEMENTS

TRADE DATE TUESDAY 07 MAR 2023 -

FINAL DATA 0

Last Updated 08 Mar 2023 12:45:00 PM CT

	ESTIMATED V	OLUME TOTAL	s 6,35	5		PRIOR DAY OPE	NINTEREST TOTALS 13	7,199
MONTH	OPEN	HIGH	LOW	LAST	CHANGE	SETTLE	EST. VOLUME	PRIOR D#
MAR 23	-	-	-	-	03096	.87745	0	19,266
APR 23	-	-	-	-	03750	.86667	3,306	14,857
MAY 23	-	-	-	-	03459	.86458	840	10,063
JUN 23	-	-	-	-	03292	.86583	564	9,481
JLY 23	-	-	-	-	03209	.86833	329	9,997
AUG 23	-	-	-	-	03125	.87333	205	9,773
SEP 23	-	-	-	-	02958	.88250	165	8,941
OCT 23	-	-	-	-	02833	.89292	257	9,525
NOV 23	-	-	-	-	02875	.90083	257	9,761
DEC 23	-	-	-	-	02917	.90375	237	10,793
JAN 24	-	-	-	-	02958	.90250	35	3,609

ENTERPRISE TE PRODUCTS PIPELINE FERC TARIFF 54.64.0 - RATES EFFECTIVE 3/1/2023

ITEM NO. 135 N	ITEM NO. 135 Non-Incentive Rates for Propane								
Origin									
Destination	Floreffe Junction (Allegheny Co., PA)	Mont Belvieu (Chambers Co., TX)	Tappan Lake (Harrison Co., OH), Todhunter (Butler Co., OH) & Follansbee (Brooke Co., West Virginia)						
Coshocton (Coshocton Co., OH)		796.08							
Dexter (Stoddard Co., MO)		378.26							
Du Bois (Clearfield Co., PA)	427.60 (1)(2)	883.77 (1)	427.60 (1)						
Fontaine (Green Co., AR)		355.36							
Greensburg (Westmoreland Co., PA)	427.60 (1)(2)	834.05 (1)	427.60 (1)						
Harford Mills (Cortland Co., NY)	600.82 (1)	942.62 (1)	625.52 (1)						
Lebanon (Boone Co., IN)		446.09 (4)							
Oneonta (Otsego Co., NY)	650.39	1018.54 (1)	671.38 (1)						
Princeton (Gibson Co., IN)		485.59							
Schaefferstown (Lebanon Co., PA)	630.46 (2)	952.75	622.11						
Selkirk (Albany Co., NY)	705.66	1083.00 (1)	707.50 (1)						
Seymour (Jackson Co., IN)		423.90							
Sinking Spring (Berks Co., PA)	630.46 (2)	952.75	622.11						
Todhunter Truck Terminal (Butler Co., OH)		713.33							
Watkins Glen (Schuyler Co., NY)	578.31 (1)	894.42 (1)	604.58 (1)						
West Memphis (Crittenden Co., AR)		378.26 (4)	==						
Monee (Will Co., IL)		1604.61 (7)							

Docket No. DG 23-034 Exhibit 2

APPENDIX 3A SUMMER 2023 COG Filing

Northern Gas Transport, Inc. Box 106 Lyndonville, VT 05851-0106 1-800-648-1075 FAX: 802-626-5039

February 14, 2023

To: All Customers

Re: Fuel Surcharge Notice

As of Monday February 13, 2023, the Department of Energy New England average price per gallon of diesel fuel was \$5.054. All deliveries invoiced from Sunday, February 19, 2023 through Saturday, February 25, 2023 will be line item assessed at 28.5% fuel surcharge. Thank you and should you have any questions, please contact Renee Young at 1-800-648-1075 extension 221.

Best Regards,

Renee Young Billing Specialist

APPENDIX 3B SUMMER 2023 COG Filing

Northern Gas Transport Inc. - Selkirk to Keene

			Fuel			
	Base	Base	Surcharge		Total	Total Rate
Gallons 9,200	Rate \$0 0891	Charge \$819.72	Rate 1.00%	Surcharge \$8.20	Charge \$827.92	Per Gallon \$0.0900
9,200 9,200	\$0 0891 \$0 0891	\$819.72 \$819.72	2.00%	φο.20 \$16.39	\$836.11	\$0.0900
9,200	\$0 0891	\$819.72	2.50%	\$20.49	\$840.21	\$0.0913
9,200	\$0 0891	\$819.72	3.00%	\$24 59	\$844.31	\$0.0918
9,200	\$0 0891	\$819.72	3.50%	\$28 69	\$848.41	\$0.0922
9,200	\$0 0891	\$819.72	4.00%	\$32.79	\$852.51	\$0.0927
9,200	\$0 0891	\$819.72	4.50%	\$36 89	\$856.61	\$0.0931
9,200	\$0 0891	\$819.72	5.00%	\$40 99	\$860.71	\$0.0936
9,200	\$0 0891	\$819.72	5.50%	\$45 08	\$864.80	\$0.0940
9,200	\$0 0891	\$819.72	6.00%	\$49.18	\$868.90	\$0.0944
9,200	\$0 0891	\$819.72	6.50%	\$53 28	\$873.00	\$0.0949
9,200	\$0 0891	\$819.72	7.00%	\$57 38	\$877.10	\$0.0953
9,200	\$0 0891	\$819.72	7.50%	\$61.48	\$881.20	\$0.0958
9,200	\$0 0891	\$819.72	8.00%	\$65 58	\$885.30	\$0.0962
9,200	\$0 0891	\$819.72	8.50%	\$69 68	\$889.40	\$0.0967
9,200	\$0 0891	\$819.72	9.00%	\$73.77	\$893.49	\$0.0971
9,200 9,200	\$0.0891 \$0.0891	\$819.72 \$819.72	9.50% 10 00%	\$77 87 \$81 97	\$897.59 \$901.69	\$0.0976 \$0.0980
9,200	\$0.0891 \$0.0891	\$819.72	10 50%	\$86 07	\$901.09	\$0.0985
9,200	\$0.0091	\$819.72	11.00%	\$90.17	\$909.89	\$0.0989
9,200	\$0 0891	\$819.72	11.50%	\$94.27	\$913.99	\$0.0993
9,200	\$0 0891	\$819.72	12.00%	\$98.37	\$918.09	\$0.0998
9,200	\$0 0891	\$819.72	12.50%	\$102.47	\$922.19	\$0.1002
9,200	\$0 0891	\$819.72	13.00%	\$106 56	\$926.28	\$0.1007
9,200	\$0 0891	\$819.72	13.50%	\$110 66	\$930.38	\$0.1011
9,200	\$0 0891	\$819.72	14.00%	\$114.76	\$934.48	\$0.1016
9,200	\$0 0891	\$819.72	14.50%	\$118 86	\$938.58	\$0.1020
9,200	\$0 0891	\$819.72	15.00%	\$122 96	\$942.68	\$0.1025
9,200	\$0 0891	\$819.72	15.50%	\$127 06	\$946.78	\$0.1029
9,200	\$0.0891	\$819.72	16 00%	\$131.16	\$950.88	\$0.1034
9,200	\$0.0891	\$819.72	16 50%	\$135 25	\$954.97	\$0.1038
9,200	\$0.0891	\$819.72	17 00%	\$139 35	\$959.07	\$0.1042
9,200	\$0.0891	\$819.72	17 50%	\$143.45	\$963.17	\$0.1047
9,200	\$0.0891	\$819.72	18 00%	\$147 55	\$967 27	\$0.1051
9,200	\$0.0891	\$819.72	18 50%	\$151 65	\$971 37	\$0.1056
9,200	\$0.0891	\$819.72	19 00%	\$155.75	\$975.47	\$0.1060
9,200	\$0.0891	\$819.72	19 50%	\$159 85	\$979 57 \$082 66	\$0.1065
9,200	\$0.0891 \$0.0891	\$819.72 \$819.72	20 00% 20.50%	\$163 94 \$168.04	\$983 66 \$987.76	\$0.1069 \$0.1074
9,200 9,200	\$0.0891 \$0.0891	\$819.72	20.50%	\$108.04 \$172.14	\$991.86	\$0.1074
9,200	\$0 0891	\$819.72	21.50%	\$176 24	\$995.96	\$0.1083
9,200	\$0 0891	\$819.72	22.00%	\$180 34	\$1,000.06	\$0.1087
9,200	\$0 0891	\$819.72	22.50%	\$184.44	\$1,004.16	\$0.1091
9,200	\$0 0891	\$819.72	23.00%	\$188 54	\$1,008.26	\$0.1096
9,200	\$0 0891	\$819.72	23.50%	\$192 63	\$1,012.35	\$0.1100
9,200	\$0 0891	\$819.72	24.00%	\$196.73	\$1,016.45	\$0.1105
9,200	\$0 0891	\$819.72	24.50%	\$200 83	\$1,020.55	\$0.1109
9,200	\$0 0891	\$819.72	25.00%	\$204 93	\$1,024.65	\$0.1114
9,200	\$0 0891	\$819.72	25.50%	\$209 03	\$1,028.75	\$0.1118
9,200	\$0 0891	\$819.72	26.00%	\$213.13	\$1,032.85	\$0.1123
9,200	\$0 0891	\$819.72	26.50%	\$217 23	\$1,036.95	\$0.1127
9,200	\$0.0891	\$819.72	27 00%	\$221 32	\$1,041.04	\$0.1132
9,200	\$0.0891	\$819.72	27 50%	\$225.42	\$1,045.14	\$0.1136
9,200	\$0.0891	\$819.72	28 00% 28 50%	\$229 52	\$1,049.24	\$0.1140 \$0.1145
9,200 9,200	\$0.0891 \$0.0891	\$819.72 \$819.72	28 50%	\$233 62 \$237.72	\$1,053.34 \$1,057.44	\$0.1145 \$0.1149
9,200	\$0.0891	\$819.72	29 50%	\$241 82	\$1,061.54	\$0.1154
9,200	\$0.0891	\$819.72	30.00%	\$245.92	\$1,065.64	\$0.1158
9,200	\$0 0891	\$819.72	30.50%	\$250.01	\$1,069.73	\$0.1163
9,200	\$0 0891	\$819.72	31.00%	\$254.11	\$1,073.83	\$0.1167
9,200	\$0 0891	\$819.72	31.50%	\$258.21	\$1,077.93	\$0.1172
9,200	\$0 0891	\$819.72	32.00%	\$262 31	\$1,082.03	\$0.1176
9,200	\$0 0891	\$819.72	32.50%	\$266.41	\$1,086.13	\$0.1181
9,200	\$0 0891	\$819.72	33.00%	\$270 51	\$1,090.23	\$0.1185
9,200	\$0 0891	\$819.72	33.50%	\$274 61	\$1,094.33	\$0.1189
9,200	\$0 0891	\$819.72	34.00%	\$278.70	\$1,098.42	\$0.1194
9,200	\$0 0891	\$819.72	34.50%	\$282 80	\$1,102.52	\$0.1198
9,200	\$0 0891	\$819.72	35.00%	\$286 90	\$1,106.62	\$0.1203
9,200	\$0 0891	\$819.72	35.50%	\$291 00	\$1,110.72	\$0.1207
9,200	\$0 0891	\$819.72	36.00%	\$295.10	\$1,114.82	\$0.1212
9,200	\$0 0891	\$819.72	36.50%	\$299 20	\$1,118.92	\$0.1216
9,200	\$0 0891	\$819.72	37.00%	\$303 30	\$1,123.02	\$0.1221
9,200	\$0 0891	\$819.72	37.50%	\$307.40	\$1,127.12	\$0.1225
9,200	\$0.0891 \$0.0891	\$819.72 \$810.72	38 00% 38 50%	\$311.49 \$315 59	\$1,131.21 \$1,135.31	\$0.1230 \$0.1234
9,200 9,200	\$0.0891 \$0.0891	\$819.72 \$819.72	38 50% 39 00%	\$315 59 \$319 69	\$1,135.31 \$1,139.41	\$0.1234 \$0.1238
9,200	\$0.0891 \$0.0891	\$819.72	39 50%	\$323.79	\$1,139.41 \$1,143.51	\$0.1238
9,200	\$0.0001	\$819.72	40.00%	\$327.89	\$1,147.61	\$0.1247
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