

Michael J. Sheehan, Esq. Director, Legal Services Phone: 603-724-2135 Email: Michael.Sheehan@libertyutilities.com

March 15, 2022

### Via Electronic Mail Only

Daniel Goldner, Chairman New Hampshire Public Utilities Commission 21 South Fruit Street, Suite 10 Concord, New Hampshire 03301-2429

## Re: Docket No. DG 22-XXX; Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty-Keene Division Summer 2022 Cost of Gas

Dear Chairman Goldner:

On behalf of Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty-Keene Division, enclosed for filing are a redacted public version and a confidential version of Liberty's Keene Division Summer 2022 Cost of Gas, which includes the Direct Testimony of Deborah Gilbertson and Catherine McNamara, with attachments. The confidential material consists of pricing and other information that is presumed confidential pursuant Puc 201.06(a)(11).

Consistent with the December 27, 2021, Joint Report filed by the Company and the Department of Energy (DOE) in the Keene Division's most recent cost of gas docket, Docket No. DG 21-132, and with the assent of DOE, the Company proposes the following procedural schedule:

- 3/15 Liberty Keene Summer 2022 COG filing
- 3/23 Initial Data Requests ("DR") from DOE/OCA/Intervenors to Liberty-Keene
- 3/29 Liberty-Keene responses
- 4/4 Initial tech session, 10:00 a.m. to 2:00 p.m.
- 4/7 Deadline for revised COG filing, if necessary
- 4/8 DOE/OCA/Intervenor second set of DRs
- 4/18 Liberty responses to 2nd Set of DRs.
- 4/20 Liberty to file any updates to DR Responses

Chairman Daniel Goldner March 15, 2022

- 4/21 Second Tech Session, 10:00 a.m. to 2:00 p.m.
- 4/22 Exhibit List, Witness List, and Exhibits to be filed (based on proposed Hearing Date)
- 4/26 Proposed Hearing Date
- 5/1 Order to issue for May 1 rates

The Company and DOE respectfully request a prehearing conference in this docket as soon as one can be scheduled.

Please include the following on the service list in this matter:

- Deborah Gilbertson <u>Deborah.Gilbertson@libertyutilities.com</u>
- Catherine McNamara Catherine.McNamara@libertyutilities.com
- Erica Menard Erica.Menard@libertyutilities.com
- Maureen Karpf <u>Maureen.Karpf@libertyutilities.com</u>
- KarenAnne Sinville <u>KarenAnne.Sinville@libertyutilities.com</u>

Pursuant to the Commission's March 17, 2020, secretarial letter, only an electronic version of this filing will be provided. Thank you.

Sincerely,

Willen

Michael J. Sheehan

Enclosures

Cc: Donald M. Kreis, Consumer Advocate Mary E. Schwarzer, Esq. OCA Litigation Energy Litigation

REDACTED

## STATE OF NEW HAMPSHIRE BEFORE THE PUBLIC UTILITIES COMMISSION

Docket No. DG 22-XXX

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

Summer 2022 Cost of Gas

## DIRECT TESTIMONY

OF

## **DEBORAH M. GILBERTSON**

## AND

# CATHERINE A. McNAMARA

March 15, 2022



001

# THIS PAGE INTENTIONALLY LEFT BLANK

002



# 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		(CM) My name is Catherine A. McNamara. 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	А.	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.	Ms. McNamara, please describe your educational background, and your business
6		and professional experience.
7	A.	I graduated from the University of Massachusetts, Boston, in 1993 with a Bachelor of
8		Science in Management with a concentration in Accounting. In November 2017, I joined
9		LUSC as an Analyst in Rates and Regulatory Affairs. Prior to my employment at LUSC,
10		I was employed by Eversource as a Senior Analyst in the Investment Planning group
11		from 2015 to 2017. From 2008 to 2015, I was a Supervisor in the Plant Accounting
12		department. Prior to my position in Plant Accounting, I was a Financial Analyst/General
13		Ledger System Administrator within the Accounting group from 2000 to 2008.
14	Q.	Ms. Gilbertson, and Ms. McNamara, have you previously testified in regulatory
15		proceedings before the New Hampshire Public Utilities Commission (the
16		"Commission")?
17	A.	Yes, we have.
18	Q.	What is the purpose of your testimony?
19	A.	The purpose of our testimony is to explain the Company's proposed Cost of Gas
20		("COG") rates for its Keene Division for the 2022 summer (off-peak) period to be

1 effective beginning May 1, 2022. Our testimony will also address bill comparisons and 2 other items related to the summer period.

3

II.

## SUMMER 2022 COST OF GAS FACTOR

- Q. What is the proposed firm summer cost of gas rate? 4
- The Company proposes a firm cost of gas rate of \$1.6643 per therm for the Keene 5 A.
- Division as shown on Proposed Third Revised Page 93. 6
- Please explain the calculation of the Cost of Gas rate on tariff page Proposed Third 7 **Q**. **Revised Page 93.** 8
- Proposed Third Revised Page 93 contains the calculation of the 2022 Summer Period 9 A.
- COG and summarizes the Company's forecast of propane and compressed natural gas 10
- ("CNG") sales and propane and CNG costs. The total anticipated cost of the gas sendout 11
- from May 1 through October 31, 2022, is \$515,676. The information presented on the 12
- tariff page is supported by Schedules A through N that are described later in this 13

14 testimony.

- 15 To derive the Total Anticipated Cost of Gas, the following adjustments have been made:
- 1) The prior period under-collection of \$18,016 is added to the anticipated cost of 16 gas sendout; and 17
- 2) Interest of \$274 is added to the anticipated cost of gas sendout. Schedule F shows 18 this forecasted interest calculation for the period November 2021 through April 19 2022. Interest is accrued using the monthly prime lending rate as reported by the 20 21
  - Federal Reserve Statistical Release of Selected Interest Rates.

1		The Non-Fixed Price Option ("Non-FPO") cost of gas rate of \$1.6643 per therm was
2		calculated by dividing the Total Anticipated Cost of Gas of \$533,966 by the Projected
3		Gas Sales of 320,838 therms. There is no Fixed Price Option for the summer period.
	0	
4	Q.	Please describe Schedule A.
5	А.	Schedule A converts the propane gas volumes and unit costs from gallons to therms. The
6		321,744 therms represent sendout as detailed on Schedule B, line3 and line 8. The
7		blended unit cost of those supplies is \$1.6170 per therm which represents the weighted
8		average cost per therm for the summer period gas sendout as detailed on Schedule D, line
9		37.
10	Q.	What is Schedule B?
11	А.	Schedule B presents the Final (over)/under collection calculation for the summer 2022
11 12	A.	Schedule B presents the Final (over)/under collection calculation for the summer 2022 period based on the prior period (over)/under collection, forecasted volumes, the cost of
	A.	
12	Α.	period based on the prior period (over)/under collection, forecasted volumes, the cost of
12 13	А.	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 251,510
12 13 14	Α.	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 251,510 therms on line 3, plus total CNG sendout of 70,233 therms on line 8, is the sum of the
12 13 14 15	Α.	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 251,510 therms on line 3, plus total CNG sendout of 70,233 therms on line 8, is the sum of the forecasted summer 2022 total firm sendout. The forecasted Firm Sales on line 26
12 13 14 15 16	A.	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 251,510 therms on line 3, plus total CNG sendout of 70,233 therms on line 8, is the sum of the forecasted summer 2022 total firm sendout. The forecasted Firm Sales on line 26 represent weather normalized 2022 summer period firm sales. The weather
12 13 14 15 16 17 18		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 251,510 therms on line 3, plus total CNG sendout of 70,233 therms on line 8, is the sum of the forecasted summer 2022 total firm sendout. The forecasted Firm Sales on line 26 represent weather normalized 2022 summer period firm sales. The weather normalization calculations for sendout and sales are found in Schedules G and H, respectively.
12 13 14 15 16 17	А. <b>Q.</b>	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 251,510 therms on line 3, plus total CNG sendout of 70,233 therms on line 8, is the sum of the forecasted summer 2022 total firm sendout. The forecasted Firm Sales on line 26 represent weather normalized 2022 summer period firm sales. The weather normalization calculations for sendout and sales are found in Schedules G and H,

1		Schedule B, line 11, includes 25% of the 2022 demand charges. These charges are
2		per month or <b>a</b> for the season and represent the portion attributable to
3		the summer period.
4	Q.	Is this an approved allocation of summer demand charges?
5	A.	Yes, in Order No. 26,505 (July 30, 2021), the Commission approved the Settlement
6		Agreement in the Company's recent distribution service rate case, which fixed the
7		allocation of Keene CNG demand charges to be 75% in the winter period and 25% in the
8		summer. The total demand charge for the summer period is thus the total annual demand
9		charge of times 25%, or .
10	Q.	Are incremental costs/savings for prior summer periods related to the use of CNG
11		vs. propane included in this filing?
11 12	A.	<b>vs. propane included in this filing?</b> Yes, the calculation of prior summer period incremental costs/savings as between
	A.	
12	A.	Yes, the calculation of prior summer period incremental costs/savings as between
12 13	A.	Yes, the calculation of prior summer period incremental costs/savings as between propane and CNG have been calculated for the summer of 2019, 2020, and 2021, per
12 13 14 15	A.	Yes, the calculation of prior summer period incremental costs/savings as between propane and CNG have been calculated for the summer of 2019, 2020, and 2021, per Section 7.1 of the Settlement Agreement in Docket No. DG 20-105, which states, in part, as follows: The Company shall recover one-half of the incrementally higher CNG
12 13 14 15 16 17	А.	Yes, the calculation of prior summer period incremental costs/savings as between propane and CNG have been calculated for the summer of 2019, 2020, and 2021, per Section 7.1 of the Settlement Agreement in Docket No. DG 20-105, which states, in part, as follows: The Company shall recover one-half of the incrementally higher CNG supply costs as compared to the propane supply cost, <sup>8</sup> incurred from the
12 13 14 15 16 17 18	А.	Yes, the calculation of prior summer period incremental costs/savings as between propane and CNG have been calculated for the summer of 2019, 2020, and 2021, per Section 7.1 of the Settlement Agreement in Docket No. DG 20-105, which states, in part, as follows: The Company shall recover one-half of the incrementally higher CNG supply costs as compared to the propane supply cost, <sup>8</sup> incurred from the commencement of CNG service through October 31, 2021, to be recovered
12 13 14 15 16 17 18 19	Α.	Yes, the calculation of prior summer period incremental costs/savings as between propane and CNG have been calculated for the summer of 2019, 2020, and 2021, per Section 7.1 of the Settlement Agreement in Docket No. DG 20-105, which states, in part, as follows: The Company shall recover one-half of the incrementally higher CNG supply costs as compared to the propane supply cost, <sup>8</sup> incurred from the commencement of CNG service through October 31, 2021, to be recovered through inclusion over one year in the next Keene cost of gas during the
12 13 14 15 16 17 18 19 20	А.	Yes, the calculation of prior summer period incremental costs/savings as between propane and CNG have been calculated for the summer of 2019, 2020, and 2021, per Section 7.1 of the Settlement Agreement in Docket No. DG 20-105, which states, in part, as follows: The Company shall recover one-half of the incrementally higher CNG supply costs as compared to the propane supply cost, <sup>8</sup> incurred from the commencement of CNG service through October 31, 2021, to be recovered through inclusion over one year in the next Keene cost of gas during the winter or summer periods consistent with the season in which the
12 13 14 15 16 17 18	Α.	Yes, the calculation of prior summer period incremental costs/savings as between propane and CNG have been calculated for the summer of 2019, 2020, and 2021, per Section 7.1 of the Settlement Agreement in Docket No. DG 20-105, which states, in part, as follows: The Company shall recover one-half of the incrementally higher CNG supply costs as compared to the propane supply cost, <sup>8</sup> incurred from the commencement of CNG service through October 31, 2021, to be recovered through inclusion over one year in the next Keene cost of gas during the
12 13 14 15 16 17 18 19 20 21	Α.	Yes, the calculation of prior summer period incremental costs/savings as between propane and CNG have been calculated for the summer of 2019, 2020, and 2021, per Section 7.1 of the Settlement Agreement in Docket No. DG 20-105, which states, in part, as follows: The Company shall recover one-half of the incrementally higher CNG supply costs as compared to the propane supply cost, <sup>8</sup> incurred from the commencement of CNG service through October 31, 2021, to be recovered through inclusion over one year in the next Keene cost of gas during the winter or summer periods consistent with the season in which the incremental costs were originally incurred. The Company shall provide the

DG 22-015

1	(a) Beginning November 1, 2021, if the CNG supply cost is higher than
2	the propane supply cost as described in footnote 8, the Company
3	shall recover one-half of the incrementally higher CNG supply cost,
4	as determined through the cost of gas reconciliation process. If the
5	CNG supply cost is lower than the propane supply cost, the
6	Company shall recover and retain the full amount of the
7	incrementally lower CNG supply cost up to the amount of
8	incrementally higher CNG costs accrued since the commencement
9	of CNG service, which has not then been recovered from customers,
10	at which point the Company shall recover and retain one-half of the
11	incrementally lower CNG supply costs. Reconciliation of the
12	incremental CNG supply costs shall occur semi-annually in the
13	Winter and Summer Cost of Gas filings, as applicable.
14	Settlement Agreement in Docket No. DG 20-105, Exhibit 49 ("Settlement Agreement"),
15	at Bates 13–14. Footnote 8 described the calculation:
16	Incremental CNG supply cost/savings shall be calculated by multiplying the
17	CNG therm purchases by the difference between the average per therm
18	CNG supply cost and the propane supply costs for the applicable
19	summer/winter period. Average CNG supply costs shall include all CNG
20	supplier charges properly allocated between summer and winter periods.
21	Average propane supply costs shall include Mont Belvieu propane pricing,
22	transportation costs, and Broker Fee.
23	Id. at 14. The above calculations for the summers of 2019 and 2020 were included in the
24	Settlement Agreement and have been applied here. Id. at Bates 33. The above
25	calculation for the summer of 2021 was also included in the Settlement Agreement, <i>id</i> ,
26	but it was based on projected numbers since the Settlement Agreement was signed during
27	that summer period. The Summer 2021 calculations have been updated with actual
28	numbers in this filing. The calculations for all three summer periods can be found on
29	Schedule M.

## this filing? 2 3 A. Yes, the previous period incremental costs/savings calculations can be found on Schedule N. For the summer of 2019, the Company had collected 100% of the incrementally 4 higher CNG costs, which totaled 5,048. In light of the Settlement Agreement authorizing 5 the Company to recover only 50% of the incrementally higher CNG costs, \$2,524 will be 6 7 returned to customers over the Summer 2022 period through the rates proposed in this 8 filing. 9 For the summer of 2020, CNG costs were \$16,214 higher than propane costs. Over the 10 course of the 2020 summer the Company deferred 100% of those incremental costs, that

Can you itemize the previous years' incremental costs/savings which are included in

1

Q.

is, the Company did not collect any of the \$16,214. The Settlement Agreement now
authorizes the Company to collect 50% of those charges, and thus the rate prosed here
includes recovery of \$8,107 of the incrementally higher CNG costs. Again, these exact
calculations for the 2019 and 2020 summers were specifically included in the Settlement
Agreement.

For the summer of 2021, CNG costs were \$13,026 less expensive than propane. The Company again deferred, i.e., did not include, these savings in the 2020 COG rates. The Settlement Agreement allows the Company to recover 100% of these savings "up to the amount of incrementally higher CNG costs accrued since the commencement of CNG service, which has not then been recovered from customers," and thereafter shares any remaining savings with customers equally. Settlement Agreement at Bates 14. The

1		amount of the "incrementally higher COG costs accrued since the commencement of
2		CNG service" that the Company did not recover is \$10,631. The rates proposed here thus
3		include recovery of that amount, leaving \$2,395 in savings to be addressed. The
4		Settlement Agreement states that this remaining amount of CNG savings is to be shared
5		equally with customers and, since the 2021 rates did not include recovery of any of the
6		remaining \$2,395 of incremental CNG savings, the rates proposed here include recovery
7		of one-half of this remaining amount, or \$1,197.
8		The net incremental costs/savings for all three periods included in this filing are \$15,017.
9		These items can also be found on Schedule B, lines 12–14.
10	Q.	Do the incremental costs/savings from above reconcile with Appendix 4 of the
11		Settlement Agreement?
11 12	А.	Settlement Agreement? No. As mentioned above, the summer 2021 incremental costs of \$3,577 reported in
	A.	
12	A.	No. As mentioned above, the summer 2021 incremental costs of \$3,577 reported in
12 13	A.	No. As mentioned above, the summer 2021 incremental costs of \$3,577 reported in Appendix 4 of the Settlement Agreement were estimated. This filing contains the actual
12 13 14	А. Q.	No. As mentioned above, the summer 2021 incremental costs of \$3,577 reported in Appendix 4 of the Settlement Agreement were estimated. This filing contains the actual increment savings for 2021. The amounts used above include the actual incremental cost
12 13 14 15		No. As mentioned above, the summer 2021 incremental costs of \$3,577 reported in Appendix 4 of the Settlement Agreement were estimated. This filing contains the actual increment savings for 2021. The amounts used above include the actual incremental cost calculations which can be found on Schedule N.
12 13 14 15 16	Q.	No. As mentioned above, the summer 2021 incremental costs of \$3,577 reported in Appendix 4 of the Settlement Agreement were estimated. This filing contains the actual increment savings for 2021. The amounts used above include the actual incremental cost calculations which can be found on Schedule N. <b>Are projected 2022 incremental cost/savings included in this filing?</b>
12 13 14 15 16 17	Q.	<ul> <li>No. As mentioned above, the summer 2021 incremental costs of \$3,577 reported in Appendix 4 of the Settlement Agreement were estimated. This filing contains the actual increment savings for 2021. The amounts used above include the actual incremental cost calculations which can be found on Schedule N.</li> <li>Are projected 2022 incremental cost/savings included in this filing?</li> <li>Yes. The Company projects CNG costs to be \$39,183 less than propane costs over the</li> </ul>

1	Q.	Are unaccounted-for gas volumes included in the filing?
2	A.	Unaccounted-for gas is included in the firm sendout on Schedule B, lines 1 and 8. The
3		Company actively monitors its level of unaccounted-for volumes, which amounted to
4		0.19% for the twelve months ended June 30, 2021.
5	Q.	Please describe Schedules C and K.
6	A.	Schedule C presents the forecasted market spot prices of propane. Column 1 shows the
7		Mont Belvieu propane futures quotations as of March 2, 2022. Subsequent columns
8		show expected broker/supplier fees, pipeline fees, and Propane Education & Research
9		Council (PERC) fees. These prices when added together represent a forecasted summer
10		price of propane. This price is also represented in Schedule K, line 40. Note: as actual
11		prices are realized, they will replace estimate pricing. The reconciliation of actual costs
12		to estimated costs is continued throughout the summer as the actual data becomes
13		available.
14	III.	PROPANE PURCHASING STABILIZATION PLAN
15	Q.	Please describe the Propane Purchasing Stabilization Plan ("PPSP").
16	A.	The Propane Purchasing Stabilization Plan is a Commission-approved strategy that the
17		Company undertakes to provide stability in the winter COG rate and to facilitate the
18		offering of a Fixed Price Option. Under this strategy, the Company systematically
19		hedges supply purchases over the off-peak period, to be utilized and called upon in the

20 peak period. The strategy is intended to provide price stability rather than to secure lower

1		prices. The PPSP was approved in Order No. 24,617 (Apr. 28, 2006), and has been
2		discussed repeatedly in Keene's cost of gas proceedings ever since.
3	Q.	Has the Company performed any analysis regarding its Propane Purchasing
4		Stabilization Plan?
5	A.	Yes. The Company performed two analyses. In Schedule J-1, the Company evaluated
6		the premium/discount associated with securing the pre-purchased volumes for delivery in
7		the winter of 2021–2022 relative to securing a floating price at Mont Belvieu. The
8		comparison reflects the net premium/discount results of the Company's competitive RFP
9		process. In Schedule J-2, the Company performed a comparison of propane purchase
10		costs under the contract versus representative spot prices had the Company not
11		implemented the Plan. The analysis shows that the cost of the pre-purchased gallons was
12		18% lower than the average representative spot purchase cost for the first four months of
13		the current winter period, reflecting an increase in spot propane prices over the pre-
14		purchased volumes.
15	Q.	Has the Company issued a Request for Proposals ("RFP") to potential suppliers for
16		the 2022–2023 Plan?
17	A.	Yes. The Company issued the RFP for the 2022–2023 Plan on February 22, 2022. The
18		RFP process was the same as the process used last summer. The RFP was sent to thirteen
19		suppliers. Once a winning bidder has been selected, they will be notified.

## 1 Q. Is the Company proposing any changes to the 2022–2023 Plan?

- 2 A. No. The Plan structure specified in the RFP, as detailed on Schedule J-3, has not
- 3 changed from the design that was used for the previous winter. The Company will
- 4 purchase 700,000 gallons to maintain a consistent ratio of hedged volumes to expected
- 5 sales approximately 65%, which also includes storage at the Amherst facility.

## 6 IV. FIXED PRICE OPTION PROGRAM

## 7 Q. Will there be a Fixed Price Option ("FPO") rate offered for the summer period?

A. No, there will not be an FPO rate offered for the summer period. The FPO program is
only offered during the winter (peak) period.

## 10 V. COST OF GAS RATE AND BILL COMPARISONS

## 11 Q. How was the cost of CNG purchases determined?

- 12 A. The CNG costs are shown in Schedule K, lines 21 through 29. These costs reflect the
- 13 contractual agreement between the Company and its supplier, Xpress Natural Gas, LLC.

## 14 Q. Please describe Schedule D.

15 A. Schedule D contains the calculation of the expected weighted average cost of inventory

16 for each month through October 2022. The unit cost of projected gas to be sent out each

- 17 month includes CNG deliveries. Note that the CNG deliveries are shown in separate
- 18 columns from the propane-weighted cost but are included in the average summer rate,
- 19 which is shown on line 37 of Schedule D.

- 1 Q. What is shown on Schedule E?
- 2 A. Schedule E shows the under-collected balance for the prior summer 2021 period,
- 3 including interest calculated in a manner consistent with prior years. The under-collected
- 4 balance of \$16,078 (line 36) is shown on Schedule E, line 1, Column 1.

## 5 Q. How is the information in Schedule F represented in the cost of gas calculation?

- 6 A. Schedule F presents the interest calculation and adjustments on (over)/under-collected
- 7 balances through October 2022. This is represented in the cost of gas calculation on
- 8 Schedule B. The prior Period Balance is calculated below and found on Schedule B,
- 9 Column 1, Line 369.

Prior Period GL Balance at 10/31/2021, Sched F, Col 1, Ln 1	\$	16,080.00
Adjustments, Schedule F, Column 3	\$	1,937.00
Interest November 2021 - April 2022, Sched F Col 8, Ln 1-6	\$	274.00
Prior Period Ending Balance at 4/30/2022, Schedule B Column 1, Line 36	<u>\$</u>	18,291.00

- 11 The forecasted over/under collection from Schedule F, Column 2, is included in Schedule
- 12 B, Columns 2-7, Line 36.

## 13 Q. What is included in the Adjustments, column (3) of Schedule F?

14 A. The total \$1,936.89 included in the adjustments column is listed below.

November 2021 - January 2022 Demand charges to the summer deferral in winter months	\$ 6,875.01
Revenue appropriately booked to the summer deferral in winter months	\$ (43,266.68)
Reversal of the October 2021 Summer Accrual in November 2021	\$ 38,328.56
Total Adjustments	\$ 1,936.89

15

10

1	Q.	How does the proposed Summer 2022 cost of gas rates compare with the previous
2		summer's rates?
3	A.	The proposed Non-FPO COG rate of \$1.6643 per therm is an increase of \$0.4822 or
4		40.8% from the summer 2021 approved rate of \$1.1821 per therm, per Order No. 26,475
5		(April 30, 2021).
6	Q.	What are the primary reasons for the change in rates?
7	A.	The main reason for the \$0.4822 increase is the increase in projected market supply costs.
8		This accounts for approximately 74.8% of the price increase. The remaining 25.1% of
9		the increase is due to having started the Summer 2021 period with an over-collection
10		versus starting the Summer 2022 period with an under-collection.
11	Q.	What is the impact of the Summer 2022 COG rate on the typical residential heat
12		and hot water customer?
13	А.	As shown on Schedule I-1, Column 14, lines 50 and 51, the typical residential heat and
14		hot water customer would experience an increase of \$24.50 or 29.3% in the gas
15		component of their bills compared to the prior summer period. When the monthly
16		customer charge, therm delivery charge, and LDAC are factored into the analysis, the

typical residential customer would see a total bill increase of \$28.73 or 13.2%, as shown
on lines 54 and 55.

Q. Please describe the impact of the Summer 2022 COG rate on the typical commercial
customer compared to the prior summer period.

A. As shown on Schedule I-2, Column 14, lines 50 and 51, the typical commercial customer
would experience an of \$78.14 or 29.5% in the gas component of their bills compared to
the prior summer period. When the monthly customer charge, therm delivery charge, and
LDAC are factored into the analysis, the typical commercial customer would see a total
bill increase of \$ 97.74 or 13.9%, as shown on lines 54 and 55.

# 10 VI. <u>OTHER ITEMS</u>

## 11 Q. What is the status of CNG currently?

12 A. The Company began serving customers with CNG in October 2019. At present, the

13 service territory for CNG is limited to the Monadnock Marketplace and a small portion of

14 Key Road. The Company's short-term plan involves adding/converting more customers

- 15 and expanding the natural gas footprint in this limited area as contemplated in the
- 16 Settlement Agreement.<sup>1</sup> Since the fall, the Company has added two new commercial
- 17 customers and extended the main by approximately 700 feet. There are plans to add a

<sup>&</sup>lt;sup>1</sup> "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		couple of other customers in the area, but likely not until later this year. The Company is
2		considering a path forward to the transition to partial renewable fuel (RNG) and has
3		retained a contractor to help determine what is possible and at what cost.
4	Q.	When does the current CNG contract expire?
7	<b>v</b> ٠	when does the current end contract expire.
5	A.	The current CNG contract expires on June 30, 2024.
6	Q.	What is the price differential between the cost of spot propane and the cost of CNG?
7	A.	For the upcoming off-peak period, spot propane is anticipated to be 56 cents per therm
8		more expensive than CNG. The calculation of Spot Purchases cost per therm found on
9		Schedule K, line 40, less the CNG Deliveries cost per therm found on Schedule K, line
10		29.
11	Q.	Does that comparison include the CNG demand charge?
11 12	<b>Q.</b> A.	<b>Does that comparison include the CNG demand charge?</b> Yes.
	-	
12	A.	Yes.
12 13	А. <b>Q.</b>	Yes. Can you comment on market price conditions as compared to last summer?
12 13 14	А. <b>Q.</b>	Yes. Can you comment on market price conditions as compared to last summer? Yes, as compared to this time last summer, the commodity prices have increased
12 13 14 15	А. <b>Q.</b>	Yes. Can you comment on market price conditions as compared to last summer? Yes, as compared to this time last summer, the commodity prices have increased substantially. Global influences have continued to impact national markets as
12 13 14 15 16	А. <b>Q.</b>	Yes. <b>Can you comment on market price conditions as compared to last summer?</b> Yes, as compared to this time last summer, the commodity prices have increased substantially. Global influences have continued to impact national markets as competition for supply increases in places such as Europe and Asia. These influences are
12 13 14 15 16 17	А. <b>Q.</b>	Yes. <b>Can you comment on market price conditions as compared to last summer?</b> Yes, as compared to this time last summer, the commodity prices have increased substantially. Global influences have continued to impact national markets as competition for supply increases in places such as Europe and Asia. These influences are impacting prices in all energy sectors across the US. For example, last year at this time,

- 1 per dekatherm ("Dth") whereas today it is averaging \$4.85 per Dth's a 68% increase
- 2 over last year. These costs directly impact the customer rates.

# 3 Q. Does this conclude your testimony?

4 A. Yes, it does.

## LIBERTY UTILITIES - KEENE DIVISION

### COST OF GAS RATE FILING - DG 22-xxx

### SUMMER PERIOD 2022

### ORIGINAL FILING

### **CONTENTS**

1.	TARIFF PAGE - COST OF GAS RATE	
2.	MARKED TARIFF PAGE - COST OF GAS RATE	
3.	CONVERSION OF GAS COSTS - GALLONS TO THERMS	SCHEDULE A
4.	CALCULATION OF COST OF GAS RATE	SCHEDULE B
5.	PROPANE SPOT MARKET PURCHASE COST ANALYSIS	SCHEDULE C
6.	PROPANE INVENTORY & WACOG CALCULATION	SCHEDULE D
7.	PRIOR PERIOD (OVER)/UNDER COLLECTION	SCHEDULE E
8.	INTEREST CALCULATION	SCHEDULE F
9.	WEATHER NORMALIZATION - SENDOUT	SCHEDULE G
10.	WEATHER NORMALIZATION - SALES	SCHEDULE H
	BILL IMPACT ANALYSES:	
11.	RESIDENTIAL FPO	SCHEDULE I-1
12.	RESIDENTIAL NON-FPO	SCHEDULE I-2
	PROPANE PURCHASING STABILIZATION PLAN:	
13.	PREMIUM FOR PRE-PURCHASED VOLUMES	SCHEDULE J-1
14.	COMPARISON OF CONTRACT COST TO HYPOTHETICAL SPOT COST	SCHEDULE J-2
15.	PRE-PURCHASES AND DELIVERY SCHEDULE	SCHEDULE J-3
16.	WEIGHTED AVERAGE COST OF GAS CALCULATION	SCHEDULE K
17.	PROJECTED INCREMENTAL SAVINGS CNG VS. SPOT PROPANE	SCHEDULE L
18.	CNG INCREMENTAL COSTS/SAVINGS RISK SHARING	SCHEDULE M
19.	HISTORICAL INCREMENTAL COSTS/SAVINGS CNG VS. SPOT PROPANE	SCHDULE N
	APPENDIXES:	
20.	MONT BELVIEU PROPANE FUTURES PRICES	APPENDIX 1
21.	ENTERPRISE TE PRODUCTS PIPELINE FERC TARIFF - EFF. 01/01/21	APPENDIX 2
22.	TRUCKING FUEL SURCHARGE NOTIFICATION	APPENDIX 3A
23.	TRUCKING FUEL SURCHARGE RATE PER GALLON	APPENDIX 3B

Rates Effective April 1, 2021 - April 30, 2021         Rates Effective April 1, 2022 - April 30, 2022           Rates Effective April 1, 2022 - April 30, 2022           Rates Effective April 1, 2022 - April 30, 2022           Rates Effective April 1, 2022 - April 30, 2022           Cost of Delivery         Cost of Delivery <th col<="" th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>əu</th><th>erseaing First i</th><th>tenseu rage oo-</th></th>	<th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>əu</th> <th>erseaing First i</th> <th>tenseu rage oo-</th>							əu	erseaing First i	tenseu rage oo-
Writer Period         Cost of Delivery         Cost of Case Ref Charge         LAC Energy         Cost of Case Ref Charge         LAC Delivery         Cost of Case Ref Charge         LAC Delivery         Total         Delivery         Cost of Case Ref Charge         East St 5:39         St 5:39								.,		
Delivery Ease determine Charge per Month per Meter All therms         States State					30, 2022	Rates Effe			er 31, 2022	
Delivery Ease determine Charge per Month per Meter All therms         States State			Cost of				Cost of			
Customer Charge per Month per Meter All therms         \$15.39 \$1.2845         \$15.39 \$0.3840         \$15.39 \$1.2845         \$15.39 \$0.3840         \$15.39 \$1.2845         \$15.39 \$0.3844         \$15.39 \$1.643         \$15.39 \$0.0869         \$15.39 \$1.643         \$15.39 \$0.0869         \$15.39 \$1.643         \$15.39 \$0.0869         \$15.39 \$1.643         \$15.39 \$0.0869         \$15.39 \$1.643         \$1.643 \$0.0869         \$0.0869         \$1.6421 \$1.643         \$0.0869         \$1.6421 \$1.643         \$0.0869         \$1.6421 \$1.643         \$0.0869         \$1.6421 \$1.643         \$0.0869         \$1.6421 \$1.643         \$0.0869         \$1.643 \$1.643         \$0.0318         \$1.657 \$1.643         \$0.0318         \$1.6633 \$1.6633         \$0.0318         \$2.6669         \$1.766 \$1.0000         \$57.06 \$57.06         \$57.06 \$57.06 <th></th> <th></th> <th>Gas Rate</th> <th></th> <th></th> <th></th> <th>Gas Rate</th> <th></th> <th></th>			Gas Rate				Gas Rate			
Customer Charge per Month per Meter All therms         \$15.39 \$1.2845         \$15.39 \$0.3840         \$15.39 \$1.2845         \$15.39 \$0.3840         \$15.39 \$1.2845         \$15.39 \$0.3844         \$15.39 \$1.643         \$15.39 \$0.0869         \$15.39 \$1.643         \$15.39 \$0.0869         \$15.39 \$1.643         \$15.39 \$0.0869         \$15.39 \$1.643         \$15.39 \$0.0869         \$15.39 \$1.643         \$1.643 \$0.0869         \$0.0869         \$1.6421 \$1.643         \$0.0869         \$1.6421 \$1.643         \$0.0869         \$1.6421 \$1.643         \$0.0869         \$1.6421 \$1.643         \$0.0869         \$1.6421 \$1.643         \$0.0869         \$1.643 \$1.643         \$0.0318         \$1.657 \$1.643         \$0.0318         \$1.6633 \$1.6633         \$0.0318         \$2.6669         \$1.766 \$1.0000         \$57.06 \$57.06         \$57.06 \$57.06 <td>Residential Non Heating - R-1</td> <td><del>\$15.50</del></td> <td></td> <td></td> <td><del>\$15.50</del></td> <td><del>\$15.39</del></td> <td></td> <td></td> <td><del>\$15.39</del></td>	Residential Non Heating - R-1	<del>\$15.50</del>			<del>\$15.50</del>	<del>\$15.39</del>			<del>\$15.39</del>	
50.3860         51.2846         60.0569         51.2866         60.0569         51.286         60.0569         51.682           Residual Heating - R3 Customer Charge per Month per Meter All herms over the first block per month at Customer Charge per Month per Meter All herms over the first block per month at S0.3682         51.389 51.389         51.385 51.389 50.3188         51.385 51.389 51.389         51.385 51.389 51.389         51.385 51.389 51.389         51.385 51.389 51.389         51.385 51.389 51.389         51.385 51.389 51.389         51.385 51.389 51.389         51.385 51.389 50.3188         51.385 51.389 51.389         51.385 51.389 50.3188         51.385 51.389 50.3188         51.385 51.389 50.0418         51.385 50.0418         51.385 50.041         51.389 50.0488         51.389 50.0488         51.389 50.0488         51.389 50.0488         51.389 50.0488         51.389 50.0488         51.389 50.0488         50.314 50.4488         51.389 50.0488         50.6488         51.389 50.0488         51.381 50.0488         50.0488         51.643 50.0488         50.0488         51.643 50.0488         50.0488         51.643 50.0488         50.0686         52.287 50.0314         51.348         50.0686         52.287 50.0314		\$15.39			\$15.39	\$15.39			\$15.39	
Besidential Heating - R-3 Customer Charge per Month per Meter All therms over the first block per month at         \$45-50 \$15.39 \$0.6832         \$45-50 \$15.39 \$0.6832         \$45-50 \$15.39 \$0.6832         \$45-50 \$15.39 \$0.6832         \$45-50 \$15.39 \$0.6832         \$45-50 \$15.39 \$0.6832         \$45-50 \$15.39 \$0.6832         \$45-50 \$15.39 \$0.6832         \$45-50 \$0.6832         \$45-50 \$15.39 \$0.6832         \$45-50 \$15.39 \$0.6832         \$45-50 \$0.6832         \$45-50 \$15.39 \$0.6832         \$45-60 \$0.6832         \$45-50 \$15.39 \$1.6843         \$51.643 \$0.1318         \$2.3933 \$2.3833           All therms over the first block per month at Size of the first blo	All therms									
Custome Charge per Month per Meter         \$15.39         \$15.39         \$15.39         \$15.39         \$15.39         \$15.39           All therms over the first block per month at         \$0.6827         \$1.4846         \$0.0689         \$1.6843         \$0.1318         \$2.3893           Customer Charge per Month per Meter         \$8.47         \$1.689         \$1.6843         \$0.1318         \$2.3893           Customer Charge per Month per Meter         \$8.47         \$1.693         \$1.643         \$0.1318         \$2.3893           Customer Charge per Month per Meter         \$6.47         \$1.0699         \$1.0750         \$0.0682         \$1.643         \$0.1318         \$2.3893           Stard the trict block         month per Meter         \$5.706 <td></td> <td><del>\$0.3860</del></td> <td><u>\$1.2816</u></td> <td><del>\$0.0589</del></td> <td><del>\$1.7265</del></td> <td><del>\$0.3844</del></td> <td><u>\$1.2389</u></td> <td><del>\$0.0589</del></td> <td><u>\$1.6822</u></td>		<del>\$0.3860</del>	<u>\$1.2816</u>	<del>\$0.0589</del>	<del>\$1.7265</del>	<del>\$0.3844</del>	<u>\$1.2389</u>	<del>\$0.0589</del>	<u>\$1.6822</u>	
Customer Charge per Month per Meter All therms over the first block per month at S0.5672         \$15.39 \$1.6823         \$15.39 \$1.6843         \$5.736 \$1.6843         \$5.736 \$5.766         \$5.766 \$5.766         \$5.766 \$5.7746         \$5.746 \$5.746         \$5.7466 \$5.74	Residential Heating - R-3	<del>\$15.50</del>			<del>\$15.50</del>	<del>\$15.39</del>			<del>\$15.39</del>	
Sol.6678         \$1.2846         \$0.0689         \$1.0085         \$0.6823         \$1.3869         \$0.0689         \$1.8610           Residential Heating - R-4 Customer Charge per Month per Meter All thems over the first block per month at Sol.3718         \$8.47         \$15.39         \$1.643         \$0.1318         \$2.383         \$0.1318         \$2.383         \$0.1318         \$2.383         \$0.1318         \$2.383         \$0.0890         \$1.2840         \$0.0890         \$1.2840         \$0.0890         \$1.2840         \$0.0890         \$1.2840         \$0.0890         \$1.2840         \$0.0890         \$1.2840         \$0.0890         \$1.2840         \$0.0890         \$1.2840         \$0.0890         \$1.2840         \$0.0890         \$1.2840         \$0.0890         \$1.2840         \$0.0890         \$2.3851         \$0.0991         \$2.0863         \$0.0911         \$2.2222         \$0.0880         \$0.991         \$2.2073         \$0.4686         \$1.2840         \$0.0855         \$1.6843         \$0.0911         \$2.2073         \$1.77.19         \$0.77.19         \$1.77.19         \$0.77.19         \$0.77.19         \$0.77.19         \$0.77.19         \$1.77.19         \$1.77.19         \$1.77.19         \$1.77.19         \$1.77.19         \$1.77.19         \$1.77.19         \$1.77.19         \$1.77.19         \$1.77.19         \$1.77.19         \$1.77.19 <td></td> <td>\$15.39</td> <td></td> <td></td> <td>\$15.39</td> <td>\$15.39</td> <td></td> <td></td> <td>\$15.39</td>		\$15.39			\$15.39	\$15.39			\$15.39	
Besidential Heating - R-4 Customer Charge per Month per Meter All thems over the first block per month at         \$8.53 \$8.47 \$0.3098         \$8.53 \$8.47 \$0.3098         \$8.53 \$8.47 \$0.3098         \$5.530 \$8.6706 \$5.766         \$5.530 \$0.5332 \$0.6832         \$5.633 \$1.6833         \$0.1318 \$0.6889         \$5.6832 \$1.6833         \$1.6833 \$0.0898         \$0.1318 \$1.8706           Commercial/Industrial - G-41 Customer Charge per Month per Meter Size of the first block per month at         \$5.746 \$0.4885         \$5.706 \$57.06         \$5.706 \$5.706         \$5.706 \$5.706 \$5.706         \$5.706 \$5.706 \$5.7266         \$5.7266 \$0.02839         \$5.24835 \$0.0991         \$5.24835 \$0.0991         \$5.24835 \$0.0991         \$5.24835 \$0.0991         \$5.24835 \$0.0991         \$5.24835 \$0.0991         \$5.2483			\$2.4835	\$0.1318			\$1.6643	\$0.1318		
Cutomer Charge par Month per Meter All therms over the first block per month at         S8.47 \$0.3098         \$1.3659 \$1.3659         \$1.3650 \$1.3659         \$1.3650 \$1.3659         \$1.3650 \$1.3650         \$1.3650 \$1.3000         \$1.3650 \$1.2380         \$1.3650 \$1.3650         \$1.3650 \$1.4323         \$1.3650 \$1.3650         \$1.3650 \$1.4323         \$1.3650 \$1.4330         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.432		<del>\$0.5678</del>	<del>\$1.2816</del>	<del>\$0.0589</del>	<del>\$1.9083</del>	<del>\$0.5632</del>	<del>\$1.2389</del>	<del>\$0.0589</del>	<del>\$1.8610</del>	
Cutomer Charge par Month per Meter All therms over the first block per month at         S8.47 \$0.3098         \$1.3659 \$1.3659         \$1.3650 \$1.3659         \$1.3650 \$1.3659         \$1.3650 \$1.3650         \$1.3650 \$1.3000         \$1.3650 \$1.2380         \$1.3650 \$1.3650         \$1.3650 \$1.4323         \$1.3650 \$1.3650         \$1.3650 \$1.4323         \$1.3650 \$1.4330         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.4323         \$1.3650 \$1.432	Residential Heating - R-4	\$8.53			\$8.53	\$15.39			\$15.39	
All therms over the first block per month at       \$0.3098       \$1.3659       \$0.1318       \$1.3675       \$0.6632       \$1.6643       \$0.1318       \$2.3593         Commercial/Industrial - G-41       \$67.766       \$67.766       \$57.06										
S0.3423         S0.7244         S0.0589         S1.0260         S0.5622         S1.2860         S0.0589         S1.8810           Commercial/Industrial - G-41         S7.7.66         S7.7.46         S7.7.46         S7.7.46<			\$1.3659	\$0.1318			\$1.6643	\$0.1318		
Customer Charge per Month per Meter Size of the first block per month at         \$57.06		<del>\$0.3123</del>	<del>\$0.7048</del>	\$0.0589	<del>\$1.0760</del>			\$0.0589	\$1.8610	
Customer Charge per Month per Meter Size of the first block per month at         \$57.06	Commorcial/Industrial - G-41	\$57.46			\$57.46	\$57.06			\$57.06	
Size of the first block per month at       100 therms       50.0991       \$2.0140       \$0.0468       \$1.6433       \$0.0991       \$2.2322         All therms over the first block per month at       \$0.4744       \$1.2846       \$0.0655       \$1.2846       \$0.0991       \$2.2322         All therms over the first block per month at       \$0.3165       \$1.2846       \$0.0555       \$1.6536       \$0.3149       \$1.6843       \$0.0991       \$2.20783         Commercial/Industrial - G-42       \$1.72.30       \$1.72.30       \$1.72.30       \$1.72.30       \$1.71.19       \$171.19       \$171.19       \$1.6433       \$0.0991       \$2.1895         Size of the first block per month at       \$0.4261       \$2.4835       \$0.0991       \$3.0087       \$0.4261       \$1.6643       \$0.0991       \$2.1895         Size of the first block per month at       \$0.4261       \$2.4835       \$0.0991       \$3.0087       \$0.4261       \$1.6643       \$0.0991       \$2.1895         All therms over the first block per month at       \$0.4261       \$2.4835       \$0.0991       \$2.04655       \$1.2846       \$0.04685       \$1.2846       \$0.04685       \$1.2846       \$0.04685       \$1.2846       \$0.04685       \$1.2846       \$0.04685       \$1.2846       \$0.04685       \$1.2846       \$0.04686       \$1.2846 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
Therms in the first block per month at       \$0.4688       \$2.4835       \$0.0991       \$3.0514       \$0.4688       \$1.643       \$0.0656       \$1.4802         All therms over the first block per month at       \$0.3149       \$2.4835       \$0.0991       \$2.3875       \$0.3149       \$1.643       \$0.0991       \$2.2329       \$0.0656       \$1.4603         Commercial/Industrial - G-42       \$1.72.390       \$1.4536       \$0.3149       \$1.72.390       \$1.71.19       \$171.49       \$173.469       \$173.469       \$173.469       \$173.469       \$173.469					<b>Q</b> 07.00				<b>\$61.00</b>	
All therms over the first block per month at       \$0.4711 \$0.3165       \$1.2816 \$1.2816 \$1.2816       \$0.06656 \$2.8975 \$1.6536       \$1.6842 \$0.3140       \$1.6843 \$1.2380       \$0.06556 \$1.6633       \$1.6802 \$0.0555       \$1.6633 \$0.0991       \$2.0733 \$1.6433       \$0.0991 \$1.6433       \$2.0735 \$1.6633       \$0.0991 \$1.6433       \$0.0991 \$1.6433       \$0.0991 \$1.71.19       \$171.19 \$171.19       \$171.19 \$171.19       \$171.19 \$171.19       \$171.19 \$171.19       \$1643       \$0.0991       \$2.073       \$			\$2.4835	\$0.0991	\$3.0514		\$1.6643	\$0.0991	\$2.2322	
S0.3165         \$1.2816         \$0.0555         \$1.6536         \$0.3149         \$1.289         \$0.0555         \$1.603           Commercial/Industrial - G-42         \$171.19         \$1.643         \$0.0991         \$2.0855         \$0.4261         \$1.643         \$0.0991         \$2.0855         \$0.2839         \$1.643         \$0.0991         \$2.0855         \$0.2839         \$1.643         \$0.0991         \$2.0855         \$1.6643         \$0.0991         \$2.0838         \$0.2839         \$2.0473         \$0.2839         \$2.0473         \$0.2839         \$2.0473         \$0.2839         \$2.0473         \$0.2839         \$2.0473         \$0.2839         \$2.0473         \$0.2839         \$2.0473         \$0.2839         \$2.0455         \$1.6643         \$0.0991         \$2.0455         \$1.643         \$0.0991         \$2.0455         \$1.643										
Commercial/Industrial - G-42 Customer Charge per Month per Meter Size of the first block per month at All therms over the first block per month at         \$172.39 \$122.485 \$0.0281         \$171.19 \$22.4835         \$171.19 \$122.865         \$171.19 \$171.19         \$171.19 \$172.469         \$171.19 \$173.469         \$171.19 \$173.469         \$173.469 \$173.469         \$734.69 \$173.469         \$734.69 \$173.469         \$734.69 \$173.469         \$734.69 \$173.469         \$171.19 \$173.49         \$1.643 \$0.0991         \$2.0455         \$1.4442           Commercial/Industrial - G-51 Customer Charge per Month per Meter Size of the first block         \$57.06 \$1.977.66         \$57.706 \$1.977.65         \$1.643 \$0.0991         \$	All therms over the first block per month at	\$0.3149	\$2.4835	\$0.0991	\$2.8975	\$0.3149	\$1.6643	\$0.0991	\$2.0783	
Customer Charge per Month per Meter Size of the first block per month at         \$171.19<		<del>\$0.3165</del>	<u>\$1.2816</u>	\$0.0555	<del>\$1.6536</del>	<del>\$0.3149</del>	\$1.2389	<del>\$0.0555</del>	\$1.6093	
Customer Charge per Month per Meter Size of the first block per month at         \$171.19<	Commercial/Industrial - G-42	\$172.39			\$172.39	<u>\$171.19</u>			<u>\$171.19</u>	
Size of the first block         1000 therms         400 therms           Therms in the first block per month at         \$0.4261         \$2.4835         \$0.0991         \$3.0655         \$4.2846         \$4.2846         \$0.0655         \$4.2849         \$4.0991         \$2.0473           Commercial/Industrial - G-43         \$734.69 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
All therms over the first block per month at       \$0.2839       \$1.2846       \$0.0656       \$1.7265       \$0.2839       \$1.6843       \$0.0991       \$2.0473         Commercial/Industrial - G-43       \$739.83       \$734.69       \$734.69       \$734.69       \$734.69       \$734.69       \$734.69       \$734.69       \$734.69       \$734.69       \$734.69       \$734.69       \$734.69       \$734.69       \$734.69       \$734.69       \$1.6226       \$0.0655       \$1.6243       \$0.0991       \$1.6843       \$0.0991       \$1.8832         Commercial/Industrial - G-51       \$67.46       \$57.06       \$1.6944       \$1.2846       \$50.0991       \$2.8465       \$1.6843       \$0.0991       \$2.0455         Commercial/Industrial - G-51       \$67.46       \$57.06       \$57.06       \$57.06       \$57.06       \$57.06       \$57.06       \$57.06       \$57.06       \$1.6433       \$0.0991       \$2.0455       \$1.6443       \$0.0991       \$2.0455       \$1.6443       \$0.0991       \$2.0455       \$1.6443       \$0.0991       \$2.0455       \$1.6443       \$0.0991       \$2.0455       \$1.6443       \$0.0991       \$2.0455       \$1.6443       \$0.0991       \$2.0455       \$1.6443       \$0.0991       \$2.0455       \$1.6443       \$0.0991       \$2.0455       \$1.6443       \$0.09		1000 therms				400 therms				
All therms over the first block per month at       \$0.2839       \$2.4835       \$0.0991       \$2.2665       \$0.2839       \$1.643       \$0.0991       \$2.0473         Commercial/Industrial - G-43       \$739.83       \$734.69       \$736.69	Therms in the first block per month at	\$0.4261			\$3.0087	\$0.4261			\$2.1895	
\$0.2855         \$1.2816         \$0.0555         \$1.6226         \$0.2839         \$1.2389         \$0.0555         \$1.5783           Commercial/Industrial - G-43 Customer Charge per Month per Meter All therms over the first block per month at B0.2620         \$734.69 \$0.2620         \$734.69 \$0.0555         \$734.69 \$0.0555 <td></td> <td></td> <td></td> <td></td> <td><del>\$1.7655</del></td> <td><del>\$0.4261</del></td> <td><del>\$1.2389</del></td> <td></td> <td><del>\$1.7205</del></td>					<del>\$1.7655</del>	<del>\$0.4261</del>	<del>\$1.2389</del>		<del>\$1.7205</del>	
Commercial/Industrial - G-43 Customer Charge per Month per Meter All therms over the first block per month at         \$730.83 \$734.69 \$0.2620 \$2.4835         \$734.69 \$734.69 \$0.0655         \$734.69 \$734.69 \$734.69         \$734.69 \$734.69         \$734.69 \$734.69           Commercial/Industrial - G-51 Customer Charge per Month per Meter Size of the first block         \$67.46 \$57.06         \$57.46 \$0.0655         \$57.06 \$57.06         \$57.06 \$57.06         \$57.06 \$57.06         \$57.06 \$57.06           All therms over the first block         \$0.2819 \$0.2833         \$2.4835 \$0.0991         \$2.8645 \$0.0991         \$0.2819 \$1.643         \$0.0991 \$2.0453           All therms over the first block per month at         \$0.1833 \$0.2839         \$2.4835 \$0.0991         \$2.8645 \$0.0555         \$1.643 \$0.2819         \$0.0991 \$2.0453           All therms over the first block per month at         \$0.1846 \$0.1846         \$0.0555 \$11.5217         \$0.1833 \$1.6643 \$0.0991         \$2.0453 \$1.4277           Commercial/Industrial - G-52 Customer Charge per Month per Meter Size of the first block         \$171.19 \$1000 therms         \$171.19 \$1000 therms         \$1.6643 \$0.0991         \$0.0991 \$1.9833         \$1.6643 \$0.0991         \$0.0991 \$1.9833           All therms over the first block per month at         \$0.1617 \$0.1846         \$0.0991 \$1.2816         \$0.171.9 \$1.0643         \$0.0991 \$1.9833         \$1.6433 \$0.0991         \$1.9833 \$1.6433         \$0.0991 \$1.9833         \$1.6433 \$0.0991         \$0.0555 \$	All therms over the first block per month at									
Customer Charge per Month per Meter All therms over the first block per month at         \$734.69 \$0.2620         \$734.69 \$2.4835         \$734.69 \$0.0991         \$734.69 \$1.6043         \$734.69 \$0.1198         \$734.69 \$1.6433         \$734.69 \$0.0991         \$734.69 \$1.8322           Commercial/Industrial - G-51 Customer Charge per Month per Meter Size of the first block         \$67.46 \$57.06         \$67.46 \$57.06         \$57.06 \$57.06         \$57.06 \$57.06         \$57.06 \$57.06         \$57.06 \$57.06           All therms over the first block per month at         \$0.2819 \$2.4835         \$2.4835 \$0.0991         \$2.8645 \$2.4835         \$0.2819 \$1.6643         \$0.0991 \$2.0455         \$1.6643 \$0.0991         \$2.0455 \$1.6243           All therms over the first block per month at         \$0.2819 \$1.2846         \$2.4835 \$0.0991         \$2.7659 \$1.5217         \$0.833 \$1.6643         \$0.0991 \$1.9467         \$1.4727           Commercial/Industrial - G-52 Size of the first block per month at         \$0.2428 \$2.4835         \$0.0991 \$2.7659         \$1.643 \$0.1749         \$0.0991 \$1.9467         \$171.19 \$171.19         \$171.19 \$171.19         \$171.19 \$171.19         \$1.643 \$0.0991         \$0.0991         \$1.9833           All therms over the first block per month at         \$0.2428 \$2.4835         \$2.0991         \$2.7659         \$0.1749 \$1.6643         \$0.0991         \$1.9833           All therms over the first block per month at         \$0.2428 \$2.4835		<del>\$0.2855</del>	<del>\$1.2816</del>	<del>\$0.0555</del>	<del>\$1.6226</del>	<del>\$0.2839</del>	<del>\$1.2389</del>	<del>\$0.0555</del>	<del>\$1.5783</del>	
All therms over the first block per month at       \$0.2620       \$2.4835       \$0.0991       \$2.846       \$0.1198       \$1.6643       \$0.0991       \$1.832         Commercial/Industrial - G-51       \$57.46       \$57.06       \$57.06       \$57.06       \$57.06       \$57.06         Size of the first block       100 therms       \$0.2819       \$2.4835       \$0.0991       \$2.8645       \$0.2819       \$1.6643       \$0.0991       \$2.0453         All therms over the first block per month at       \$0.2819       \$2.4835       \$0.0991       \$2.8645       \$0.2819       \$1.6643       \$0.0991       \$2.0453         All therms over the first block per month at       \$0.2819       \$2.4835       \$0.0991       \$2.8645       \$0.2819       \$1.6643       \$0.0991       \$2.0453         All therms over the first block per month at       \$0.2819       \$2.4835       \$0.0991       \$2.7659       \$0.1833       \$1.6240       \$0.09555       \$1.6210       \$0.0833       \$1.2389       \$0.0555       \$1.4773         Commercial/Industrial - G-52       \$172.39       \$171.19       \$171.19       \$171.19       \$171.19       \$1.643       \$0.0991       \$1.9383         Therms in the first block per month at       \$0.2428       \$2.4835       \$0.0991       \$2.2743       \$0.1749	Commercial/Industrial - G-43	<del>\$739.83</del>			<del>\$739.83</del>	<del>\$734.69</del>			<del>\$734.69</del>	
S0.2633         \$1.2816         \$0.0555         \$1.6004         \$0.1198         \$1.2389         \$0.0555         \$1.4142           Commercial/Industrial - G-51         \$67.46         \$57.06	Customer Charge per Month per Meter	\$734.69			\$734.69	\$734.69			\$734.69	
Commercial/Industrial - G-51         \$57.46         \$57.46         \$57.06 <td>All therms over the first block per month at</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$1.6643</td> <td></td> <td></td>	All therms over the first block per month at						\$1.6643			
Customer Charge per Month per Meter Size of the first block         \$57.06 100 therms         \$57.06 \$1.6243         \$50.0991 \$2.0455         \$1.643 \$1.2389         \$0.0955         \$1.5763 \$1.4777           All therms over the first block per month at Therms in the first block per month at         \$0.1833 \$0.2428         \$2.4835 \$0.0991         \$171.19 \$171.19         \$171.19 \$1000 therms         \$1.6643 \$0.0991         \$0.091 \$1.9383           All therms over the first block per month at \$0.1617         \$0.2428 \$2.4835 \$0.0991         \$2.8254 \$0.0555         \$0.1769 \$1.6643         \$0.0991         \$1.8634 \$0.0991         \$1.9383 \$0.0991         \$1.8634 \$0.0991         \$1.8634 \$0.0991 </td <td></td> <td><del>\$0.2633</del></td> <td><del>\$1.2816</del></td> <td><del>\$0.0555</del></td> <td><del>\$1.6004</del></td> <td><del>\$0.1198</del></td> <td><del>\$1.2389</del></td> <td><del>\$0.0555</del></td> <td><del>\$1.4142</del></td>		<del>\$0.2633</del>	<del>\$1.2816</del>	<del>\$0.0555</del>	<del>\$1.6004</del>	<del>\$0.1198</del>	<del>\$1.2389</del>	<del>\$0.0555</del>	<del>\$1.4142</del>	
Size of the first block       100 therms       100 therms         Therms in the first block per month at       \$0.2819       \$2.4835       \$0.0991       \$2.8645       \$0.2819       \$1.6643       \$0.0991       \$2.0453         All therms over the first block per month at       \$0.2819       \$1.2816       \$0.0555       \$1.6210       \$0.0833       \$1.6643       \$0.0991       \$2.0453         Commercial/Industrial - G-52       \$1.72.39       \$1.2816       \$0.0555       \$1.5217       \$0.1833       \$1.6643       \$0.0991       \$1.9467         Customer Charge per Month per Meter       \$171.19       \$171.19       \$171.19       \$171.19       \$171.19       \$171.19         Size of the first block       \$0.2428       \$2.4835       \$0.0991       \$2.8254       \$0.1759       \$1.6643       \$0.0991       \$1.383         Therms in the first block per month at       \$0.2428       \$2.4835       \$0.0991       \$2.8254       \$0.1749       \$1.6643       \$0.0991       \$1.4703         All therms over the first block per month at       \$0.1617       \$2.4835       \$0.0991       \$2.7443       \$0.1000       \$1.6643       \$0.0991       \$1.8634         Commercial/Industrial - G-53       \$761.39       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10 </td <td>Commercial/Industrial - G-51</td> <td><del>\$57.46</del></td> <td></td> <td></td> <td><del>\$57.46</del></td> <td><del>\$57.06</del></td> <td></td> <td></td> <td><del>\$57.06</del></td>	Commercial/Industrial - G-51	<del>\$57.46</del>			<del>\$57.46</del>	<del>\$57.06</del>			<del>\$57.06</del>	
Therms in the first block per month at       \$0.2819       \$2.4835       \$0.0991       \$2.8645       \$0.2819       \$1.643       \$0.0991       \$2.0453         All therms over the first block per month at       \$0.1833       \$2.4835       \$0.0991       \$2.8645       \$0.2819       \$1.6643       \$0.0991       \$2.0453         All therms over the first block per month at       \$0.1846       \$1.2816       \$0.0555       \$1.6210       \$0.1833       \$1.6643       \$0.0991       \$1.9467         Commercial/Industrial - G-52       \$1.72.39       \$1.2816       \$0.0555       \$1.5217       \$0.1833       \$1.6643       \$0.0991       \$1.4777         Customer Charge per Month per Meter       \$171.19       \$171.19       \$171.19       \$171.19       \$171.19       \$171.19       \$171.19       \$1.6643       \$0.0991       \$1.9383         All therms over the first block per month at       \$0.2428       \$2.4835       \$0.0991       \$2.7443       \$0.1000       \$1.6643       \$0.0991       \$1.9383         All therms over the first block per month at       \$0.1617       \$2.4835       \$0.0991       \$2.7443       \$0.1000       \$1.6643       \$0.0991       \$1.8634         Commercial/Industrial - G-53       \$761.39       \$766.10       \$756.10       \$756.10       \$756.10	Customer Charge per Month per Meter	\$57.06			\$57.06	\$57.06			\$57.06	
All therms over the first block per month at       \$0.2839       \$1.2816       \$0.0555       \$1.6210       \$0.2819       \$1.2389       \$0.0555       \$1.5763         All therms over the first block per month at       \$0.1833       \$2.4835       \$0.0991       \$2.7659       \$0.1833       \$1.643       \$0.0991       \$1.9467         Commercial/Industrial - G-52       \$1.2319       \$1.2319       \$1.2319       \$0.0555       \$1.5217       \$0.1833       \$1.2389       \$0.0555       \$1.47777         Customer Charge per Month per Meter       \$171.19       \$171.19       \$171.19       \$171.19       \$171.19       \$171.19         Sto 2428       \$2.4835       \$0.0991       \$2.8254       \$0.1749       \$1.6643       \$0.0991       \$1.9383         All therms over the first block per month at       \$0.2428       \$2.4835       \$0.0991       \$2.7443       \$0.1000       \$1.6643       \$0.0991       \$1.8634         All therms over the first block per month at       \$0.1617       \$2.4835       \$0.0991       \$2.7443       \$0.1000       \$1.6643       \$0.0991       \$1.8634         Commercial/Industrial - G-53       \$761.30       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10		100 therms				100 therms				
All therms over the first block per month at       \$0.1833       \$2.4835       \$0.0991       \$2.7659       \$0.1833       \$1.6433       \$0.0991       \$1.9467         Commercial/Industrial - G-52       \$1.72.39       \$1.5217       \$0.1833       \$1.6433       \$0.0991       \$1.71.19         Customer Charge per Month per Meter       \$171.19       \$171.19       \$171.19       \$171.19       \$171.19         Size of the first block       \$0.2428       \$2.4835       \$0.0991       \$2.8254       \$0.1759       \$1.6433       \$0.0991       \$1.9383         All therms over the first block per month at       \$0.2428       \$2.4835       \$0.0991       \$2.8254       \$0.1759       \$1.6433       \$0.0991       \$1.9383         All therms over the first block per month at       \$0.1617       \$2.4835       \$0.0991       \$2.7443       \$0.1000       \$1.6643       \$0.0991       \$1.8634         Commercial/Industrial - G-53       \$761.39       \$766.10       \$756.10	Therms in the first block per month at									
\$0.1846       \$1.2816       \$0.0555       \$1.5217       \$0.1833       \$1.289       \$0.0555       \$1.4777         Commercial/Industrial - G-52 Customer Charge per Month per Meter Size of the first block per month at Therms in the first block per month at       \$172.39 \$1.228       \$172.39 \$2.4285       \$0.0991 \$2.4285       \$1.5217 \$1.000 therms       \$171.19 \$1000 therms       \$171.19 \$1000 therms       \$171.19 \$1000 therms         All therms over the first block per month at All therms over the first block per month at       \$0.1617 \$2.4835       \$0.0991 \$1.2846       \$2.4835 \$0.0991       \$2.8254 \$0.0555       \$0.1000 \$1.6643       \$0.0991 \$1.6643       \$0.0991 \$1.8634         Commercial/Industrial - G-53 Customer Charge per Month per Meter All therms over the first block per month at       \$761.19 \$756.10 \$0.1697       \$2.4835 \$0.0991       \$2.7523 \$0.0814       \$1.6643 \$0.0991       \$0.0991 \$1.8448										
	All therms over the first block per month at									
Customer Charge per Month per Meter Size of the first block       \$171.19       \$171.19       \$171.19       \$171.19       \$171.19         Size of the first block       1000 therms       \$0.2428       \$2.4835       \$0.0991       \$2.8254       \$0.1759       \$1.6643       \$0.0991       \$1.9383         All therms over the first block per month at       \$0.1617       \$2.4835       \$0.0991       \$2.7443       \$0.1000       \$1.6643       \$0.0991       \$1.8634         Commercial/Industrial - G-53       \$761.39       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10         All therms over the first block per month at       \$0.1697       \$2.4835       \$0.0991       \$2.7523       \$0.0814       \$1.6643       \$0.0991       \$1.8448		<b>\$0.1010</b>	<del></del>	<del>00.0000</del>		<del>\$0000</del>	<del>9112000</del>	<del>\$0.0000</del>	$\varphi$	
Size of the first block       1000 therms       1000 therms         Therms in the first block per month at       \$0.2428       \$2.4835       \$0.0991       \$2.8254       \$0.1749       \$1.6643       \$0.0991       \$1.9383         All therms over the first block per month at       \$0.2428       \$2.4835       \$0.0991       \$2.8254       \$0.1749       \$1.6643       \$0.0991       \$1.4703         All therms over the first block per month at       \$0.1617       \$2.4835       \$0.0991       \$2.7443       \$0.1000       \$1.6643       \$0.0991       \$1.8634         Commercial/Industrial - G-53       \$0.1624       \$1.2816       \$0.0555       \$1.4995       \$0.1000       \$1.6643       \$0.0991       \$1.3944         Customer Charge per Month per Meter       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10         All therms over the first block per month at       \$0.1697       \$2.4835       \$0.0991       \$2.7523       \$0.0814       \$1.6643       \$0.0991       \$1.8448         \$0.1705       \$1.2816       \$0.0555       \$1.6076       \$0.0814       \$1.6643       \$0.0991       \$1.8448										
Therms in the first block per month at       \$0.2428       \$2.4835       \$0.0991       \$2.8254       \$0.1749       \$1.6643       \$0.0991       \$1.9383         All therms over the first block per month at       \$0.2428       \$1.2816       \$0.0555       \$1.6810       \$0.1749       \$1.6643       \$0.0991       \$1.9383         All therms over the first block per month at       \$0.1617       \$2.4835       \$0.0991       \$2.7443       \$0.1000       \$1.6643       \$0.0991       \$1.8634         Commercial/Industrial - G-53       \$1.2816       \$0.0555       \$1.4995       \$0.1000       \$1.6643       \$0.0991       \$1.8641         All therms over the first block per month at       \$761.39       \$761.30       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10       \$1.8448       \$0.0991       \$1.8448       \$0.0555       \$1.4076       \$0.0814       \$1.6643       \$0.0991       \$1.8448         All therms over the first block per month at       \$0.1697       \$2.4835       \$0.0991       \$2.7523       \$0.0814       \$1.6643       \$0.0991       \$1.8448         \$0.1697       \$1.2816       \$0.0555       \$1.6076       \$0.0814       \$1.2389       \$0.0555 <td< td=""><td></td><td></td><td></td><td></td><td>\$171.19</td><td></td><td></td><td></td><td>\$171.19</td></td<>					\$171.19				\$171.19	
All therms over the first block per month at       \$0.2439       \$1.2816       \$0.0555       \$1.5810       \$0.1759       \$1.2389       \$0.0555       \$1.4703         All therms over the first block per month at       \$0.1617       \$2.4835       \$0.0991       \$2.7443       \$0.1000       \$1.6643       \$0.0991       \$1.8634         Commercial/Industrial - G-53       \$761.30       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10         All therms over the first block per month at       \$0.1697       \$2.4835       \$0.0991       \$2.7523       \$0.0814       \$1.6643       \$0.0991       \$1.8448         All therms over the first block per month at       \$0.1697       \$2.4835       \$0.0991       \$2.7523       \$0.0814       \$1.6643       \$0.0991       \$1.8448										
All therms over the first block per month at       \$0.1617       \$2.4835       \$0.0991       \$2.7443       \$0.1000       \$1.6643       \$0.0991       \$1.8634         Commercial/Industrial - G-53       \$761.39       \$761.39       \$756.10       \$756.10       \$756.10       \$756.10         Customer Charge per Month per Meter       \$756.10       \$756.10       \$756.10       \$756.10       \$756.10         All therms over the first block per month at       \$0.1697       \$2.4835       \$0.0991       \$2.7523       \$0.0814       \$1.6643       \$0.0991       \$1.8448	Therms in the first block per month at									
\$0.1624         \$1.2816         \$0.0555         \$1.4995         \$0.100         \$1.2389         \$0.0555         \$1.3944           Commercial/Industrial - G-53         \$761.39         \$761.39         \$761.39         \$766.10         \$756.10         \$756.10         \$756.10         \$756.10         \$756.10         \$756.10         \$756.10         \$756.10         \$756.10         \$756.10         \$756.10         \$756.10         \$1.8448         \$0.0991         \$1.8448         \$1.6643         \$0.0991         \$1.8448         \$1.8448         \$0.0555         \$1.4076         \$0.0555         \$1.6076         \$0.0814         \$1.6643         \$0.0991         \$1.8448           \$0.1705         \$1.2816         \$0.0555         \$1.6076         \$0.0814         \$1.2389         \$0.0555         \$1.3758										
Commercial/Industrial - G-53         \$761.39         \$761.39         \$761.39         \$761.39         \$761.39         \$761.00         \$7	All therms over the first block per month at									
Customer Charge per Month per Meter         \$756.10         \$756.10         \$756.10         \$756.10           All therms over the first block per month at         \$0.1697         \$2.4835         \$0.0991         \$2.7523         \$0.0814         \$1.6643         \$0.0991         \$1.8448           \$0.1705         \$1.2816         \$0.0555         \$1.5076         \$0.0814         \$1.6239         \$0.0555         \$1.3758			ψ <u>20.0</u>	<i>40.0000</i>			φ <b>2000</b>	ψυ.υ <del>υυυ</del>		
All therms over the first block per month at         \$0.1697         \$2.4835         \$0.0991         \$2.7523         \$0.0814         \$1.6643         \$0.0991         \$1.8448           \$0.1705         \$1.2816         \$0.0555         \$1.5076         \$0.0814         \$1.2389         \$0.0555         \$1.3758										
\$0.1705 \$1.2816 \$0.0555 \$1.5076 \$0.0814 \$1.2389 \$0.0555 \$1.3758			AD 4005	<b>*</b> **			<b>A4 00 (C</b>	<b>A</b> A AAA4		
	All therms over the first block per month at									
<u>Commercial/Industrial - G-54</u> \$761.39 \$761.39 \$756.10 \$756.10	• • • • • • • • • •									
	Commercial/Industrial - G-54	<del>\$761.39</del>			<del>\$761.39</del>	<del>\$756.10</del>			<del>\$756.10</del>	

#### Third Revised Page 93 First Revised Page 93 Second Revised Page 93 Superseding Original Page 93

### CALCULATION OF THE SUMMER COST OF GAS RATE

Period Cover	red:	Summer Period May 1, 2021, through October 31, 2021– Summer Period May 1, 2022, through October 31, 2022			
Projected Ga	as Sales - ther	ms		311,740	320,838
Total Anticipa	ated Cost of S	endout		<del>\$391,714</del>	\$515,676
Add:	Prior Period Interest	Deficiency Uncollected	<del>\$0</del> <del>\$0</del>	\$18,017 \$274	
Deduct:	Prior Period Interest	Excess Collected	<del>(\$23,223)</del> <del>\$18</del>	\$0 \$0	
	Prior Period	Adjustments and Interest		<del>(\$23,205)</del>	\$18,291
Total Anticipa	ated Cost		-	<del>\$368,509</del>	\$533,966
Cost of Gas	Rate - Beginn	ing Period (per therm)		<del>\$1.1821</del>	\$1.6643
Mid Period A	djustment - N	lay 1, 2021		<del>\$0.0000</del>	
Mid Period A	djustment - J	une 1, 2021		<del>\$0.08</del> 44	
Mid Period A	djustment - J	uly 1, 2021		<del>\$0.2015</del>	
Mid Period A	djustment - A	ugust 1, 2021		<del>\$0.0000</del>	
Mid Period A	djustment - S	eptember 1, 2021		<del>(\$0.1240)</del>	
Mid Period A	djustment - C	october 1, 2021		<del>(\$0.1051)</del>	
Revised Cos	t of Gas Rate	-Effective October 1, 2021 (per therm)-	-	<del>\$1.2389</del>	

Pursuant to tariff section 16.2(D), the Company may adjust the approved cost of gas rate upward on a monthly basis to the following rate:

Maximum Cost of Gas Rate (per therm)

<del>\$1.4776</del>

\$2.0804

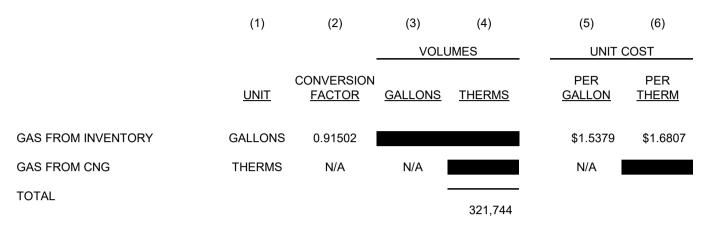
DATED: April XX, 2022 DATED: September 24, 2021 EFFECTIVE: May 1, 2022 EFFECTIVE: October 1, 2021 ISSUED BY: <u>(Neil Proudman</u> Neil Proudman TITLE: President

Authorized by NHPUC Order No. xx,xxx dated April xx, 2022, in Docket No. DG 22-xxx Authorized by NHPUC Order No. 26,475 dated April 30, 2021, in Docket No. DG 21-050-

REDACTED SCHEDULE A

### LIBERTY UTILITIES - KEENE DIVISION

### CONVERSION OF COSTS - GALLONS TO THERMS SUMMER PERIOD 2022



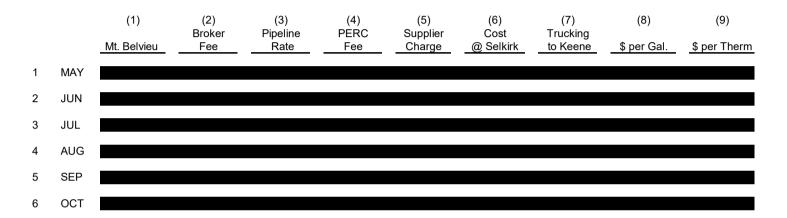
REDACTED SCHEDULE B

		LIBER'	TY UTILITIES - KEI	ENE DIVISION					
		SU	LATION OF COST IPPLY / DEMAND SUMMER PERIO	BALANCE					
		(1) PRIOR	(2) May-22	(3) Jun-22	(4) Jul-22	(5) Aug-22	(6) Sep-22	(7) Oct-22	(8) TOTAL
1	PROPANE COSTS PROPANE FIRM SENDOUT (therms)								
2	COMPANY USE (therms)								
3	TOTAL PROPANE SENDOUT (therms)								
4 5 6 7	COST PER THERM (WACOG) TOTAL CALCULATED COST OF PROPANE PROPANE ADJUSTMENTS TOTAL COST OF PROPANE	-	\$1.2454 \$63,672 \$0 \$63,672	\$1.6335 \$58,362 \$0 \$58,362	\$1.7450 \$60,620 \$0 \$60,620	\$1.8071 \$62,992 \$0 \$62,992	\$1.8489 \$68,320 \$0 \$68,320	\$1.8715 \$108,747 \$0 \$108,747	\$422,713 \$0 \$422,713
8	CNG COSTS CNG SENDOUT (therms)	I							
9 10	COST PER THERM (WACOG) TOTAL CALCULATED COST OF CNG								
11	CNG DEMAND CHARGES								
12 13 14 15 16	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								
17	TOTAL CNG COSTS								
18	ACCOUNTING ADJUSTMENT		\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	FPO PREMIUM		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
20	TOTAL COSTS OF GAS								
21	RETURN ON INVENTORY		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	REVENUES								
22 23	BILLED FPO SALES (therms) COG FPO RATE	-	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
24 25	BILLED NON-FPO SALES PRIOR MONTH (therms) COG NON-FPO RATE PRIOR MONTH	-	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
26 27	BILLED NON-FPO SALES CURRENT MONTH (therms) COG NON-FPO RATE CURRENT MONTH	-	64,616 <u>\$1.6643</u> \$107,540	46,386 \$1.6643 \$77,200	45,099 \$1.6643 \$75,058	44,423 \$1.6643 \$73,933	48,068 \$1.6643 \$79,999	72,246 \$1.6643 \$120,238	320,838 \$533,967
28 29	BILLED SALES OTHER PRIOR PERIODS COG OTHER PRIOR PERIODS BLENDED RATE	-	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
30	TOTAL SALES		64,616	46,386	45,099	44,423	48,068	72,246	320,838
31	TOTAL BILLED REVENUES		\$107,540	\$77,200	\$75,058	\$73,933	\$79,999	\$120,238	\$533,967
32	UNBILLED REVENUES (NET)		\$0	\$0	\$0	\$0	\$0	\$0	\$0
33	TOTAL REVENUES	-	\$107,540	\$77,200	\$75,058	\$73,933	\$79,999	\$120,238	\$533,967
34	(OVER)/UNDER COLLECTION		(\$15,757)	(\$6,379)	(\$1,558)	\$1,696	\$784	\$2,934	(\$18,280)
35	INTEREST AMOUNT		\$28	(\$2)	(\$12)	(\$12)	(\$9)	(\$4)	(\$11)
36	FINAL (OVER)/UNDER COLLECTION	\$18,291	(\$15,729)	(\$6,381)	(\$1,570)	\$1,684	\$775	\$2,930	(\$0)
				CE LIAS DEEN DI					

#### REDACTED SCHEDULE C

#### LIBERTY UTILITIES - KEENE DIVISION

### PROPANE SPOT MARKET PURCHASE COST ANALYSIS SUMMER PERIOD 2022



1. Propane futures market quotations (cmegroup.com) on 3/2/2022 close. See Appendix 1.

- 2. A generally accepted broker fee
- 3. Pipeline rate from Mont Belvieu, TX to Selkirk, NY
- 4. Propane Education Research Council (propanecouncel.org)
- 5. A generally accepted 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 D

### LIBERTY UTILITIES - KEENE DIVISION

#### PROPANE INVENTORY & WEIGHTED AVERAGE COST OF PROPANE CALCULATION SUMMER PERIOD 2022

I INF	

		(4)	(0)	(0)	
1	Mar 0000 (fam. a to 1)	(1)	(2)	(3)	(4)
	May 2022 (forecasted)	Therms	<u>Cost</u>	Therm	<u>Gal.</u>
2	Beginning Balance	45,222	\$69,089	\$1.5278	\$1.3979
3	Purchases Received	50,000	\$49,501	\$2.0445	\$1.8708
4	Total Available				
		95,222	\$118,590	\$1.2454	\$1.1396
5	Less Sendout	51,125	\$63,672	\$1.2454	\$1.1396
6	Ending Balance	44,097	\$54,918	\$1.2454	\$1.1396
7	June 2022 (forecasted)	Therms	<u>Cost</u>	Therm	<u>Gal.</u>
	Sunc 2022 (lorecasted)		0031	menn	
8	Beginning Balance	44,097	\$54,918	\$1.2454	\$1.1396
9	Purchases Received	50,000	\$98,787	\$1.9757	\$1.8078
10	Total Available	94,097	\$153,705	\$1.6335	\$1.4947
11	Less Sendout	35,729	\$58,362	\$1.6335	\$1.4947
12	Ending Balance	58,368	\$95,343	\$1.6335	\$1.4947
	5				
13	July 2022 (forecasted)	Therms	Cost	Therm	<u>Gal.</u>
		50.000		<b>*</b> · · · · · · · · · · · · · · · · · · ·	A
14	Beginning Balance	58,368	\$95,343	\$1.6335	\$1.4947
15	Purchases Received	35,000	\$67,589	\$1.9311	\$1.7670
16	Total Available	93,368	\$162,932	\$1.7451	\$1.5968
17	Less Sendout	34,738	\$60,620	\$1.7450	\$1.5968
18	Ending Balance	58,630	\$102,312	\$1.7451	\$1.5968
19	August 2022 (forecasted)	Therms	Cost	<u>Therm</u>	<u>Gal.</u>
20	Beginning Balance	58,630	\$102,312	\$1.7451	\$1.5968
20	Purchases Received	35,000	\$66,888	\$1.9111	\$1.7487
22	Total Available	93,630	\$169,200	\$1.8071	\$1.6536
23	Less Sendout	34,858	\$62,992	\$1.8071	\$1.6535
24	Ending Balance	58,772	\$106,208	\$1.8071	\$1.6536
25	September 2022 (forecasted)	Therms	<u>Cost</u>	Therm	<u>Gal.</u>
20		menne	0001	Incim	<u>our.</u>
26	Beginning Balance	58,772	\$106,208	\$1.8071	\$1.6536
27	Purchases Received	40,000	\$76,408	\$1.9102	\$1.7479
28	Total Available	98,772	\$182,616	\$1.8489	\$1.6918
29	Less Sendout	36,952	\$68,320	\$1.8489	\$1.6917
30	Ending Balance	61,819	\$114,296	\$1.8489	\$1.6918
		,	••••		
31	October 2022 (forecasted)	Therms	Cost	Therm	<u>Gal.</u>
00	De sinsia a Delen es	-			<b>#4 00/0</b>
32	Beginning Balance	61,819	\$114,296	\$1.8489	\$1.6918
33	Purchases Received	55,000	\$104,328	\$1.8969	\$1.7357
34	Total Available	116,819	\$218,624	\$1.8715	\$1.7124
35	Less Sendout	58,108	\$108,747	\$1.8715	\$1.7124
36	Ending Balance	58,712	\$109,877	\$1.8715	\$1.7124
37	AV	ERAGE SUM	MER RATE - 3	SENDOUT	

(5) <u>CNG therms</u>	(6) <u>Cost</u>	(7) <u>Total Sendout</u> (1)+(5)	(8) <u>Total Cost</u> (2)+(6)	(9) <u>Therm Rate</u> (8 ) / (7)

REDACTED SCHEDULE E

#### LIBERTY UTILITIES - KEENE DIVISION

CALCULATION OF COST OF GAS RATE SUPPLY / DEMAND BALANCE SUMMER PERIOD 2021

			SU	JMMER PERIOD	2021				
		(1) RIOR	(2) May-21	(3) Jun-21	(4) Jul-21	(5) Aug-21	(6) Sep-21	(7) Oct-21	(8) TOTAL
			Actual	Actual	Actual	Actual	Actual	Actual	
1	PROPANE COSTS PROPANE FIRM SENDOUT (therms)								
2	COMPANY USE (therms)								
3	TOTAL PROPANE SENDOUT (therms)								
4	COST PER THERM (WACOG)	_	\$1.1069	\$1.1869	\$1.3619	\$1.4048	\$1.4683	\$1.6086	
5 6	TOTAL CALCULATED COST OF PROPANE PROPANE ADJUSTMENTS		\$62,060 (\$0)	\$44,436 (\$150)	\$48,722 \$149	\$51,179 \$0	\$56,747 (\$0)	\$91,851 \$0	\$354,995 (\$1)
7	TOTAL COST OF PROPANE		\$62,060	\$44,286	\$48,871	\$51,179	\$56,747	\$91,851	\$354,993
8	CNG COSTS CNG SENDOUT (therms)								
9	COMPANY USE (therms)								
10	TOTAL CNG SENDOUT (therms)								
11 12	COST PER THERM (WACOG) TOTAL CALCULATED COST OF CNG								
13	ACCOUNTING ADJUSTMENT	_	\$52	\$71	\$728	(\$569)	\$45	\$22	\$350
14 15	CNG DEMAND CHARGES TOTAL CALCULATED COST OF CNG								
	FPO PREMIUM		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
16	TOTAL COSTS OF GAS								
17	RETURN ON INVENTORY		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	REVENUES								
18	BILLED FPO SALES (therms)		0	0	0	0	0	0	
19 20	COG FPO RATE TOTAL		\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0
21	BILLED NON-FPO SALES CURRENT MONTH (thern	is)	48,984	35,352	35,014	42,924	33,670	36,773	232,717
22	COG NON-FPO RATE CURRENT MONTH	· _	\$1.1821	\$1.2665	\$1.4680	\$1.4680	\$1.3440	\$1.2389	
23	TOTAL		\$57,904	\$44,773	\$51,401	\$63,012	\$45,252	\$45,558	\$307,900
24 25	BILLED NON-FPO SALES PRIOR MONTH (therms) COG NON-FPO RATE PRIOR MONTH		0 \$0.0000	20,254 \$1.1821	10,455 \$1.2665	0 \$1.4680	11,164 \$1.4680	13,695 \$1.3440	
26	TOTAL	_	\$0	\$23,942	\$13,241	\$0	\$16,389	\$18,406	\$71,978
27	BILLED SALES OTHER PRIOR PERIODS		0	(1)	546	13	(31)	8	
28	COG OTHER PRIOR PERIODS BLENDED RATE	_	\$0.0000	\$0.8000	\$1.1821	\$1.2300	\$0.0000	\$1.3057	
29	TOTAL		\$0	(\$1)	\$645	\$16	(\$33)	\$11	\$638
30	TOTAL SALES		48,984	55,605	46,015	42,937	44,803	50,475	288,819
31	TOTAL BILLED REVENUES		\$57,904	\$68,715	\$65,287	\$63,028	\$61,608	\$63,974	\$380,517
32	UNBILLED REVENUES (NET)		\$18,316	(\$10,435)	\$6,034	\$2,302	\$3,649	\$18,461	\$38,328
33	TOTAL REVENUES		\$76,220	\$58,280	\$71,322	\$65,330	\$65,257	\$82,435	\$418,845
34	(OVER)/UNDER COLLECTION		\$483	(\$2,247)	(\$9,055)	(\$3,938)	\$4,508	\$26,904	\$16,653
35	INTEREST AMOUNT		(\$1)	(\$3)	(\$19)	(\$37)	(\$35)	\$7	(\$87)
36	FINAL (OVER)/UNDER COLLECTION	(\$488)	\$482	(\$2,250)	(\$9,074)	(\$3,975)	\$4,473	\$26,911	\$16,078

#### SCHEDULE F

#### LIBERTY UTILITIES - KEENE DIVISION

#### INTEREST CALCULATION SUMMER PERIOD 2022

LINE	MONTH	(1) BEG. OF MONTH BALANCE	(2) (OVER) UNDER COLLECT	(3) ADJUSTMENTS	(4) REFUNDS	(5) END OF MONTH BALANCE	(6) AVERAGE BALANCE COL.	(7) ANNUAL INTEREST RATE	(8) INTEREST AMOUNT	(9) MONTH END BAL. WITH INTEREST
NO.						(COL.1+2+3)	(COL. [1+4]/2)			(COL. 4+7)
1	NOV 2021	16,080	\$0	(\$2,600)	\$0	\$13,480	\$14,780	3.25%	39	\$13,519
2	DEC	13,519	0	2,226	0	\$15,745	14,632	3.25%	40	15,785
3	JAN 2022	15,785	0	2,311	0	\$18,096	16,941	3.25%	47	18,143
4	FEB	18,143	0	0	0	\$18,143	18,143	3.25%	49	18,192
5	MAR	18,192	0	0	0	\$18,192	18,192	3.25%	49	18,241
6	APR	18,241	0	0	0	\$18,241	18,241	3.25%	49	18,290
7	MAY	18,290	(15,757)	0	0	\$2,533	10,411	3.25%	28	2,561
8	JUN	2,561	(6,379)	0	0	(\$3,818)	(629)	3.25%	(2)	(3,820)
9	JUL	(3,820)	(1,558)	0	0	(\$5,378)	· · ·	3.25%	(12)	(5,390)
10	AUG	(5,390)	1,696	0	0	(\$3,694)	· · · /	3.25%	(12)	(3,706)
11	SEP	(3,706)	784	0	0	(\$2,922)	· · · /	3.25%	(9)	(2,931)
12	OCT	(2,931)	2,934	0	0	\$3	(1,464)	3.25%	(4)	(1)
13								-		•
14									\$263	
								•		
15	=	COL. 1, LINE 1			+	COL. 7, LINES	S 1 TO 6			
16	=	16,080			+	274	=	16,353	@ MAY 1, 20 (TRANSEER	22 TO SCHEDULE B

(TRANSFER TO SCHEDULE B, LINE 13) (UNLESS ADJUSTMENTS UNDER COLUMN 3 LINES 1-6)

### SCHEDULE G

	LIBERTY UTILITIES - KEENE DIVISION Weather Normalization - Firm Sendout													
				Actual	Normal	ather Normalization	- Firm Sendol	It						
	A 1			0.1			A . ( ) ] ]			N	A . ( )		<b>T</b> ( )	
	Actual			Calendar	Calendar		Actual Unit		N	Normalized	Actual	Unaccounted	Total	
D i. I	Firm	<b>D</b>		Month	Month	Colder (Warmer)	Heat Load	Weather	Normal	Firm	Company	For	Firm	
Period	Sendout	Base Use	Heat Use	Degree Days	Degree Days	Than Normal	Therm/DD	Adjustment	Heat Load	Sendout	Use	0.19%	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)		(11 - 14) * 0.19%	(10) - (11) +(12)	
May-21	70,282	46,620	23,662	346	301	45	68.39	(3,077)	20,585	67,205	2,566	128	64,766	
Jun-21	47,998	46,620	1,378	80	102	(22)	17.23	379	1,757	48,377	1,880	92	46,589	
Jul-21	47,069	46,620	449	79	27	52	5.68	(296)	153	46,773	1,884	89	44,978	
Aug-21	46,171	46,620	0	25	43	(18)	0.00	0	0	46,171	1,701	88	44,558	
Sep-21	50,096	46,620	3,476	201	195	6	17.29	(104)	3,372	49,992	1,834	95	48,253	
Oct-21	70,902	46,620	24,282	464	537	(73)	52.33	3,820	28,102	74,722	2,265	142	72,599	
Total	332,518	279,720	53,247	1,195	1,205	(10)		722	53,969	333,240	12,130	633	321,744	

#### SCHEDULE H

					BERTY UTILITIES er Normalization -						
Period	Calendar Customers	Calendar Sales	Base Load	Heating Load	Calendar Monthly Actual Degree Days	Calendar Monthly Normal Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normal Firm Sales Therms
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				(1) - (2)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)
May-21	910	13,321	6,393	6,928	346	301	45	20.02	(901)	6,027	12,420
Jun-21	873	7,338	6,393	945	80	102	(22)	11.81	260	1,204	7,598
Jul-21	901	6,341	6,393	0	79	27	52		0	0	6,341
Aug-21	894	6,446	6,393	52	25	43	(18)	2.10	38	90	6,484
Sep-21	865	7,361	6,393	968	201	195	6	4.82	(29)	939	7,332
Oct-21	897	13,733	6,393	7,340	464	537	(73)	15.82	1,155	8,494	14,888
Total		54,540	38,360	16,233	1,195	1,205	(10)	52.24	522	16,755	55,063

#### LIBERTY UTILITIES - KEENE DIVISION Weather Normalization - Sales Rate Commercial

	Weather Normalization - Sales Rate Commercial													
					Calendar	Calendar		Actual Unit			Normal Firm			
Period	Calendar Customers	Calendar Sales	Base Load	Heating Load	Monthly Actual Degree Days	Monthly Normal Degree Days	Colder (Warmer) Than Normal	Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Sales Therms			
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)			
				(1) - (2)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)			
May-21	318	54,266	38,349	15,917	346	301	45	46.00	(2,070)	13,847	52,196			
Jun-21	307	38,693	38,349	345	80	102	(22)	4.31	95	440	38,788			
Jul-21	314	38,758	38,349	410	79	27	52		0	410	38,758			
Aug-21	310	37,939	38,349	0	25	43	(18)	0.00	0	0	37,939			
Sep-21	300	40,809	38,349	2,461	201	195	6	12.24	(73)	2,387	40,736			
Oct-21	320	54,774	38,349	16,425	464	537	(73)	35.40	2,584	19,009	57,358			
Total		265,239	230,091	35,558	1,195	1,205	(10)	53.53	535	36,093	265,775			

#### Summary - Total Summer Season Sales

	Actual 2021	Normalized
May	67,587	64,616
June	46,031	46,386
July	45,099	45,099
August	44,385	44,423
September	48,170	48,068
October	68,507	72,246
Total	319,779	320,838

DG 22-015

SCHEDULE I-1

#### LIBERTY UTILITIES - KEENE DIVISION Typical Residential Heating Bill Forecasted 2022 Summer Period vs. Actual 2021 Summer Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
12 MONTHS ENDED 10/2021	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter Nov-Apr	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer May-Oct	Total Nov-Oct
Typical Usage - therms (1) Residential Heating R-3 Nov-20 - Apr-21 May-21 - Jul-21 Aug-21 - Oct-21	39	67	83	101	70	35	395	21	10	7	7	8	12	65	4
Winter         Summer         Summer           Customer Charge         \$15.50         \$15.50         \$15.39           Delivery Charge:          \$15.50         \$15.50         \$15.39	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$93.00	\$15.50	\$15.50	\$15.50	\$15.39	\$15.39	\$15.39	\$92.67	\$185
All therms @ \$0.5678 \$0.5678 \$0.5632 Base Delivery Revenue Total	\$22.14 \$37.64	\$38.04 \$53.54	\$47.13 \$62.63	\$57.35 \$72.85	\$39.74 \$55.24	\$19.87 \$35.37	\$224.27 \$317.27	\$11.92 \$27.42	\$5.68 \$21.18	\$3.97 \$19.47	\$3.94 \$19.33	\$4.51 \$19.90	\$6.76 \$22.15	\$36.78 \$129.45	\$261. \$446.
							\$317.27							\$123. <del>4</del> 3	\$440.1
Deferred Revenue Surcharge Rate Deferred Revenue Surcharge Total	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.0000 \$0.00	\$0.00	\$0.
COG Rates Cost of Gas Total	\$1.0253 \$39.99	\$1.0253 \$68.70	\$1.0277 \$85.30	\$0.9928 <b>\$100.27</b>	\$0.9928 \$69.50	\$1.2816 \$44.86	\$1.0345 <b>\$408.62</b>	\$1.1821 <b>\$24.82</b>	\$1.2665 \$12.67	\$1.4680 \$10.28	\$1.4680 <b>\$10.28</b>	\$1.3440 <b>\$10.75</b>	\$1.2389 <b>\$14.87</b>	\$1.2872 \$83.67	\$1.070 \$492.2
Cost of Gas Total	\$39.99	\$68.70	\$85.30	\$100.27	<b>\$69.50</b>	\$44.86	\$408.62	\$24.82	\$12.67	\$10.28	\$10.28	\$10.75	\$14.87	\$83.67	\$492.7
LDAC Rate LDAC Total	\$0.0589 <b>\$2.30</b>	\$0.0589 \$3.95	\$0.0589 <b>\$4.89</b>	\$0.0589 <b>\$5.95</b>	\$0.0589 <b>\$4.12</b>	\$0.0589 <b>\$2.06</b>	\$23.27	\$0.0589 <b>\$1.24</b>	\$0.0589 <b>\$0.59</b>	\$0.0589 <b>\$0.41</b>	\$0.0589 <b>\$0.41</b>	\$0.0589 <b>\$0.47</b>	\$0.0589 <b>\$0.71</b>	\$3.83	\$27.0
Total Bill	\$79.93	\$126.19	\$152.82	\$179.07	\$128.86	\$82.29	\$749.16	\$53.48	\$34.44	\$30.16	\$30.02	\$31.12	\$37.73	\$216.95	\$966.
						,		\$78.46	\$49.29	\$29.52	\$25.60	\$25.46	\$29.91	\$238.25	1080.5639
12 MONTHS ENDED 10/2022	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Winter Nov-Apr	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Summer May-Oct	Total Nov-Oct
Typical Usage - therms (1) Residential Heating R-3 Nov-21 - Apr-22 May-22 - Oct-22 Minister - Durants	39	67	83	101	70	35	395	21	10	7	7	8	12	65	4
Winter         Summer           Customer Charge         \$15.39           Delivery Charge:         \$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.34	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.34	\$184.6
All therms @ \$0.5632 \$0.5632	\$21.96	\$37.73	\$46.75	\$56.88	\$39.42	\$19.71	\$222.45	\$11.83	\$5.63	\$3.94	\$3.94	\$4.51	\$6.76	\$36.61	\$259.
Base Delivery Revenue Total	\$37.35	\$53.12	\$62.14	\$72.27	\$54.81	\$35.10	\$314.79	\$27.22	\$21.02	\$19.33	\$19.33	\$19.90	\$22.15	\$128.95	\$443.
Seasonal Base Delivery Difference from previous year Seasonal Percent Change from previous year							(\$2.48) -0.8%							(\$0.50) -0.4%	(\$2.9 -0.7
Deferred Revenue Surcharge 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		
Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
COG Rates	\$1.9868	\$1.8972	\$1.5090	\$1.6493	\$2.4835	\$2.4835	\$1.9170	\$1.6643	\$1.6643	\$1.6643	\$1.6643	\$1.6643	\$1.6643	\$1.6642	\$1.88
Cost of Gas Total	\$77.49	\$127.11	\$125.25	\$166.58	\$173.85	\$86.92	\$757.20	\$34.95	\$16.64	\$11.65	\$11.65	\$13.31	\$19.97	\$108.17	\$865.3
LDAC Rate LDAC Total	\$0.1397 <b>\$5.45</b>	\$0.1012 <b>\$6.78</b>	\$0.1154 <b>\$9.58</b>	\$0.1154 <b>\$11.66</b>	\$0.1318 <b>\$9.23</b>	\$0.1318 <b>\$4.61</b>	\$47.31	\$0.1318 <b>\$2.77</b>	\$0.1318 <b>\$1.32</b>	\$0.1318 <b>\$0.92</b>	\$0.1318 <b>\$0.92</b>	\$0.1318 <b>\$1.05</b>	\$0.1318 <b>\$1.58</b>	\$8.56	\$55.
Seasonal COG Difference from previous year Seasonal Percent Change from previous year							\$348.58 85.3%							\$24.50 29.3%	\$373. 75.
Total Bill	\$120.29	\$187.01	\$196.97	\$250.51	\$237.89	\$126.63	\$1,119.30	\$64.94	\$38.98	\$31.90	\$31.90	\$34.26	\$43.70	\$245.68	\$1,364
Seasonal Total Bill Difference from previous year Seasonal Percent Change from previous year							\$370.14 49.4%							\$28.73 13.2%	\$398 41
Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Surch.)							-3.4%							-2.0%	-3
Seasonal Percent Change resulting from COG Seasonal Percent Change resulting from LDAC							46.5% 3.2%							11.3% 2.2%	38

(1) Residential Heating Typical Usage: Single family detached home using gas for heat, hot water and cooking.

SCHEDULE I-2

#### LIBERTY UTILITIES - KEENE DIVISION Typical Commercial Heating Bill Forecasted 2022 Summer Period vs. Actual 2021 Summer Period

				(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
12 MONTHS ENDED 10/2021				Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter Nov-Apr	Mav-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer Mav-Oct	Total Nov-Oct
Typical Usage - therms (1) <b>Commercial G-41</b>	Nov-20 - Apr-21	May-21 - Jul-21	Aug-21 - Oct-21	153	276	327	404	251	140		67	30	22	20	27	40	206	1,757
Customer Charge	\$57.46	\$57.46	\$57.06	\$57.46	\$57.46	\$57.46	\$57.46	\$57.46	\$57.46	\$344.76	\$57.46	\$57.46	\$57.46	\$57.06	\$57.06	\$57.06	\$343.56	\$688.32
<ul> <li>Delivery Charge:</li> <li>Summer 20 therms @</li> <li>Winter 100</li> </ul>	\$0.4711 \$0.3165	\$0.4711 \$0.3165	\$0.4688 \$0.3149	\$47.11 \$16.77	\$47.11 \$55.70	\$47.11 \$71.85	\$47.11 \$96.22	\$47.11 \$47.79	\$47.11 \$12.66	\$282.66 \$300.99	\$9.42 \$14.88	\$9.42 \$3.17	\$9.42 \$0.63	\$9.38 \$0.00	\$9.38 \$2.20	\$9.38 \$6.30	\$56.40 \$27.18	\$339.06 \$328.17
1 Base Delivery Revenue Total				\$121.34	\$160.27	\$176.42	\$200.79	\$152.36	\$117.23	\$928.41	\$81.76	\$70.05	\$67.51	\$66.44	\$68.64	\$72.74	\$427.14	\$1,355.55
2 3 Deferred Revenue Surcharge 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		
4 Deferred Revenue Surcharge Total				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5 6 COG Rates				1.0253	1.0253	0.9970	0.9928	0.9928	1.2816	1.0287	1.1821	1.2665	1.4680	1.4680	1.3440	1.2389	1.2850	1.0588
7 Cost of Gas Total				\$156.87	\$282.98	\$326.02	\$401.09	\$249.19	\$179.42	\$1,595.57	\$79.20	\$38.00	\$32.30	\$29.36	\$36.29	\$49.56	\$264.71	\$1,860.28
8 9 LDAC Rate				\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589		\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589		
0 LDAC Total				\$9.01	\$16.26	\$19.26	\$23.80	\$14.78	\$8.25	\$91.35	\$3.95	\$1.77	\$1.30	\$1.18	\$1.59	\$2.36	\$12.13	\$103.49
1 2 Total Bill				\$287	\$460	\$522	\$626	\$416	\$305	\$2.615	\$165	\$110	\$101	\$97	\$107	\$125	\$704	\$3.319
3																		
4 5																		
6										Winter							Summer	Total
7 12 MONTHS ENDED 10/2022				Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Nov-Apr	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	May-Oct	Nov-Oct
Typical Usage - therms (1) Commercial G-41	Nov-21 - Apr-22 Winter	May-22 - Oct-2 Summer	2	153	276	327	404	251	140	1,551	67	30	22	20	27	40	206	1,757
2 Customer Charge 3 Delivery Charge:	\$57.06	\$57.06		\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$342.36	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$342.36	\$684.72
4 Summer 20 therms @	\$0.4688	\$0.4688		\$46.88	\$47.11	\$47.11	\$47.11	\$47.11	\$47.11	\$282.43	\$9.38	\$9.38	\$9.38	\$9.38	\$9.38	\$9.38	\$56.28	\$338.71
5 Winter 100	\$0.3149	\$0.3149		\$16.69	\$55.70	\$71.85	\$96.22	\$47.79	\$12.66	\$300.91	\$14.80	\$4.69	\$0.94	\$0.00	\$3.28	\$9.38	\$33.08	333.99
6 Base Delivery Revenue Total				\$120.63	\$159.87	\$176.02	\$200.39	\$151.96	\$116.83	\$925.70	\$81.24	\$71.13	\$67.38	\$66.44	\$69.72	\$75.82	\$431.72	\$1,357.42
7 8 Seasonal Base Delivery Difference fro 9 Seasonal Percent Change from previo										(\$2.71) -0.3%							\$4.59 1.1%	\$1.87 0.1%
1 Deferred Revenue Surcharge 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		
2 Deferred Revenue Surcharge Total				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4 COG Rates				\$1.9868	\$1.8972	\$1.5090	\$1.6493	\$2.4835	\$2.4835	\$1.9074	\$1.6643	\$1.6643	\$1.6643	\$1.6643	\$1.6643	\$1.6643	\$1.6643	\$1.8789
5 Cost of Gas Total				\$303.98	\$523.63	\$493.44	\$666.32	\$623.36	\$347.69	\$2,958.42	\$111.51	\$49.93	\$36.61	\$33.29	\$44.94	\$66.57	\$342.85	\$3,301.27
7 LDAC Rate				\$0.1397	\$0.1012	\$0.1154	\$0.1154	\$0.1318	\$0.1318		\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318		
B LDAC Total				\$21.37	\$27.93	\$37.74	\$46.62	\$33.08	\$18.45	\$185.19	\$8.83	\$3.95	\$2.90	\$2.64	\$3.56	\$5.27	\$27.15	\$212.34
Seasonal COG Difference from previo     Seasonal Percent Change from previo										\$1,362.85 85.4%							\$78.14 29.5%	\$1,440.99 77.5%
3 Total Bill				\$446	\$711	\$707	\$913	\$808	\$483	\$4,069	\$202	\$125	\$107	\$102	\$118	\$148	\$802	\$4,871
Seasonal Total Bill Difference from pre Seasonal Percent Change from previo										\$1,453.97 55.6%							\$97.74 13.9%	\$1,551.72 46.7%
6 Seasonal Percent Change resulting fro	m Base Rates (ind	l. Def. Revenue	Surch.)							-3.6%							-1.1%	-3.1%
7 Seasonal Percent Change resulting fro 8 Seasonal Percent Change resulting fro										52.1% 3.6%							11.1%	43.4% 3.3%
Seasonal Percent Change resulting fro	IT LUAC									3.6%							2.1%	3.3%

(1) Residential Heating Typical Usage: Single family detached home using gas for heat, hot water and cooking.

#### REDACTED SCHEDULE J-1

#### LIBERTY UTILITIES - KEENE DIVISION

#### BID PREMIUM FOR PRE-PURCHASED GALLONS - PRIOR YEAR

	Mt. Belvieu		Pipeline	Br	oker + Suppli	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-21	\$1.1296	+	\$0.2396	+	\$0.1000	+	\$0.0050	+	\$0.1065	=	\$1.5806	140,000	\$221,290			140,000			-\$0.0881
May-21	\$1.1433	+	\$0.2396	+	\$0.1000	+	\$0.0050	+	\$0.1065	=	\$1.5944	105,000	\$167,408			105,000			-\$0.0881
Jun-21	\$1.2753	+	\$0.2396	+	\$0.1000	+	\$0.0050	+	\$0.1065	=	\$1.7264	105,000	\$181,269			105,000			-\$0.0881
Jul-21	\$1.3962	+	\$0.2396	+	\$0.1000	+	\$0.0050	+	\$0.1065	=	\$1.8473	140,000	\$258,620			140,000			-\$0.0881
Aug-21	\$1.3925	+	\$0.2396	+	\$0.1000	+	\$0.0050	+	\$0.1065	=	\$1.8435	105,000	\$193,573			105,000			-\$0.0881
Sep-21	\$1.5172	+	\$0.2396	+	\$0.1000	+	\$0.0050	+	\$0.1065	=	\$1.9683	105,000	\$206,670			105,000			-\$0.0881
Total												700,000	\$1,228,829			700,000	\$1,167,176	(\$61,652)	-\$0.0881

### SCHEDULE J-2

### LIBERTY UTILITIES - KEENE DIVISION

### COMPARISON OF CONTRACT COST TO HYPOTHETICAL SPOT COST WINTER SEASON 2021-2022 TO DATE

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-21	\$1.3044	92,000	\$120,005	\$1.4921	92,000	\$137,273	(\$17,268)
Dec-21	\$1.3044	140,000	\$182,616	\$1.4259	140,000	\$199,626	(\$17,010)
Jan-22	\$1.3044	165,000	\$215,226	\$1.6340	165,000	\$269,610	(\$54,384)
Feb-22	\$1.3044	135,000	\$176,094	\$1.7619	135,000	\$237,857	(\$61,763)
Total			\$693,941			\$844,366	(\$150,425)
							-17.8%

033

### SCHEDULE J-3

### LIBERTY UTILITIES - KEENE DIVISION

### PROPANE PURCHASING STABILIZATION PLAN PRE-PURCHASES AND DELIVERY SCHEDULE

Delivery			Pre-P	urchases (Ga	llons)		
Month	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Total
Nov-22	18,400	13,800	13,800	18,400	13,800	13,800	92,000
Dec-22	28,000	21,000	21,000	28,000	21,000	21,000	140,000
Jan-23	33,000	24,750	24,750	33,000	24,750	24,750	165,000
Feb-23	27,000	20,250	20,250	27,000	20,250	20,250	135,000
Mar-23	21,000	15,750	15,750	21,000	15,750	15,750	105,000
Apr-23	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%	

REDACTED SCHEDULE K

### LIBERTY UTILITIES - KEENE DIVISION

### CALCULATION OF PURCHASED GAS COSTS SUMMER PERIOD 2022

LINE NO.		May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	TOTAL
1	TOTAL SENDOUT (therms)							
2	CHANGE TO ENDING INVENTORY BALANCE (therms)	-	-	-	-	-	-	-
3	TOTAL REQUIRED PURCHASES (therms)	64,766	46,589	44,978	44,558	48,253	72,599	321,744
4	PROPANE PURCHASE STABILIZATION PLAN DELIVERIES							
5	Therms	-	-	-	-	-	-	-
6	RATES - from Schedule D							
7	Contract Price	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
8 9	Broker Fee	incl.	incl.	incl.	incl.	incl.	incl.	
9 10	Pipeline Fee PERC Fee	incl. incl.	incl. incl.	incl. incl.	incl. incl.	incl. incl.	incl. incl.	
11	Trucking Fee	incl.	incl.	incl.	incl.	incl.	incl.	
12	COST PER GALLON	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
13	TOTAL COST - Propane Purchase Stabilization Plan Deliveries	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	AMHERST STORAGE PROPANE DELIVERIES							
15	Therms	-	-	-	-	-	-	-
16	RATES - from Schedule F	¢0.0000	¢0,0000	¢0,0000	¢0,0000	¢0,0000	¢0,0000	
17 18	WACOG Price Trucking Fee	\$0.0000 \$0.0000	\$0.0000 \$0.0000	\$0.0000 \$0.0000	\$0.0000 \$0.0000	\$0.0000 \$0.0000	\$0.0000 \$0.0000	
19	COST PER GALLON	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
20	TOTAL COST - Amherst Storage Propane Deliveries	\$0	\$0	\$0	\$0	\$0	\$0	\$0
21	CNG DELIVERIES							
22	Therms							
23	RATE							
24	PRICE							
25	COST PER Therm							
26 27	COST - CNG DEMAND FIXED							
28	COST PER Therm							
29	TOTAL CNG							
30	SPOT PURCHASES	54.405	05 700	04 700	04.050	00.050	50 400	054 540
31	Therms	51,125	35,729	34,738	34,858	36,952	58,108	251,510
32	RATES - from Schedule C							
33	Mont Belvieu							
34 35	Broker Fee Pipeline Fee							
36	PERC Fee							
37	Supplier Charge							
38	Trucking Fee							
39	COST PER GALLON - Market Quotes							
40	COST PER THERM - Market Quotes							
41	TOTAL COST - Spot Purchases							
40								
42 43	OTHER ITEMS Storage - Winter Period 2019-2020	\$0	\$0	\$0	\$0	\$0	\$0	\$0
43 44	Refund of Deferred Revenue Surcharge over collection	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
45	TOTAL OTHER ITEMS	\$0	\$0	\$0	\$0	\$0	\$0	\$0
46	TOTAL							
47	THERMS	64,766	46,589	44,978	44,558	48,253	72,599	321,744
48	SENDOUT THERMS	64,766	46,589	44,978	44,558	48,253	72,599	321,744
49	COST	\$122,552	\$86,049	\$82,262	\$81,219	\$86,091	\$129,003	\$587,177
50	COST PER THERM	\$1.8922	\$1.8470	\$1.8289	\$1.8228	\$1.7842	\$1.7769	\$1.8250

#### REDACTED SCHEDULE L

#### LIBERTY - KEENE DIVISION PROJECTED INCREMENTAL SAVINGS CNG VS. SPOT PROPANE SUMMER 2022

CNG PURCHASES CNG Volumes (Schedule K)	Projected May-22	Projected Jun-22	Projected Jul-22	Projected Aug-22	Projected Sep-22	Projected Oct-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)							251,510
Total Costs Spot Propane Total Cost Spot Propane							
Spot Propane Cost Per Therm Actual	\$ 2.0445	\$ 1.9758	3 \$ 1.9311	\$ 1.9111	\$ 1.9102 \$	1.8969	

CNG Volumes		
Price difference CNG vs Spot Propane		
Adj. for rounding		\$0.0000
Incremental Costs Propane		(\$39,183)
	Divided by 2	2

Divided by 22Allowed Recoverable Costs\$ (19,592)

### SCHEDULE M

In	cremental CNG Suppl	y Costs/Savings - W	'inter 2019 - V	Vinter 2021		
COG Period	Year	Actual / Estimate	Amount	Recovery	Deferred	(Refund)/Charge
Summer-Costs	2019	Actuals	\$5,048	\$2,524	\$0	-\$2,52
Summer-Costs	2020	Actuals	\$16,214	\$8,107	\$16,214	\$8,10
Total Costs			\$21,262	\$10,631	\$16,214	\$5,58
Summer-Savings	2021	Actuals	-\$13,026	\$9,434	\$0	\$9,43
Total Savings			-\$13,026	\$9,434	\$0	\$9,43

> REDACTED SCHEDULE N

### LIBERTY UTILITIES - KEENE DIVISION

INCREMENTAL SAVINGS CNG VS. SPOT PROPANE SUMMER 2021 ACTUALS

	Actual	Actual	Actual	Actual	Actual	Actual	
CNG PURCHASES	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	
CNG Volumes (Schedule K Reconciliation)							
CNG Costs (Schedule C Reconciliation)							
Total Cost per Actual CNG Costs (Schedule K Reconciliation)							
CNG Cost Per Therm Actual							
SPOT PROPANE PURCHASES							
Spot Propane Volumes (Schedule K Reconciliation)							
Total Costs Spot Propane (Schedule K Reconciliation)							
Total Cost Spot Propane							
Spot Propane Cost Per Therm Actual	\$1.1680	\$1.3225	\$1.4830	\$1.4889	\$1.6788	\$1.9586	\$1.5245
CNG Volumes							
Price differebnce CNG vs Spot Propane							
Adj. for rounding							
Incremental Savings Propane							
				Allow	ved Recover	rable Costs	\$ 9,434
Keene ACTUAL INCREMENTAL COSTS CNG VS. SPOT PROPANE Summ	or 2020						
ACTUAL INCREMENTAL COSTS CING VS. SPOT PROPANE SUITHIN	CI 2020						
	Actual	Actual	Actual	Actual	Actual	Actual	
<u>CNG PURCHASES</u>	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	
CNG Volumes (Schedule K Reconciliation)							

CNG Costs (Schedule K Reconciliation)							
Total Cost per Actual CNG Costs (Schedule K Reconciliation)							
CNG Cost Per Therm Actual							
SPOT PROPANE PURCHASES							
Spot Propane Volumes (Schedule K Reconciliation)	55,502	18,314	36,564	36,624	59,967	64,729	271,700
Total Costs Spot Propane	\$49,501	\$15,366	\$29,895	\$30,354	\$46,040	\$63,162	\$234,318
Total Cost Spot Propane	\$49,501	\$15,366	\$29,895	\$30,354	\$46,040	\$63,162	\$234,318
Spot Propane Cost Per Therm Actual	\$0.8919	\$0.8391	\$0.8176	\$0.8288	\$0.7678	\$0.9758	
CNG Volumes							
Price differebnce CNG vs Spot Propane							
Adj. for rounding							\$ -
Incremental Costs Propane	\$ 2,444	\$ 2,769	\$ 2,732	\$ 3,324	\$ 3,762	\$ 1,183	\$16,214

Divided by 2 2 Allowed Recoverable Costs \$ 8,107

Keene ACTUAL INCREMENTAL COSTS CNG VS. SPOT PROPANE October 2019 Go Live with CNG

	MAY-19	JUN-19	JUL-19	AUG-19	SEP-19	OCT-19	
CNG Costs (Schedule K Reconciliation) Total Cost per Actual CNG Costs (Schedule K Reconciliation)							
Total Cost per Actual CNG Costs (Schedule K Reconciliation)							
CNG Cost Per Therm Actual							I
SPOT PROPANE PURCHASES Spot Propane Volumes (Schedule K Reconciliation)						66,261	66,26
Total Costs Spot Propane						\$46,932	\$ 46,93
Total Cost Spot Propane	\$ -	\$ -	\$ -	\$ -	\$ -	\$46,932	\$ 46,93
Spot Propane Cost Per Therm Actual	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	\$0.7083	
CNG Volumes	_						
Price differebnce CNG vs Spot Propane							
Adj. for rounding Incremental Costs Propane	Ś -	Ś -	Ś -	Ś-	\$ -	\$ 5,048	\$ - \$ 5,04

Divided by 2 2 Allowed Recoverable Costs \$ 2,524

### **REVISED MONT BELVIEU PROPANE FUTURES - 3/2/2022 CLOSE**

# MONT BELVIEU LDH PROPANE (OPIS) FUTURES - SETTLEMENTS

TRADE DATE WEDNESDAY 02 MAR 2022 -

### FINAL DATA

Last Updated 03 Mar 2022 11:45:00 AM CT

ESTIMATED VOLUME TOTALS 20, 281					PRIOR DAY OPEN INTEREST TOTALS			
MONTH	OPEN	нібн	LOW	LAST	CHANGE	SETTLE	EST. VOLUME	
FEB 22	-	-	-	-	UNCH	1.31510	0	
MAR 22	-	-	-	-	+.06620	1.52870	0	
APR 22	-	-	-	-	+.06542	1.49417	4,574	
MAY 22	-	-	-	-	+.06520	1.42208	3,623	
JUN 22	-	-	-	-	+.05104	1.35917	2,111	
JLY 22	-	-	-	-	+.04708	1.31833	1,676	
AUG 22	-	-	-	-	+.04312	1.30000	1,391	
SEP 22	-	-	-	-	+.03979	1.29292	1,136	
OCT 22	-	-	-	-	+.03937	1.28750	1,086	
NOV 22	-	-	-	-	+.03958	1.28083	961	
DEC 22	-	-	-	-	+.03812	1.27000	1,422	

### APPENDIX 2

### ENTERPRISE TE PRODUCTS PIPELINE FERC TARIFF 54.64.0 - RATES EFFECTIVE 3/1/2022

<b>RATES (In Cents-per-bbl.)</b> [D] All rates are decreased.				
ITEM NO. 135 Non-Incentive Rates for Propane				
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)		732.29		
Dexter (Stoddard Co., MO)		347.95		
Du Bois (Clearfield Co., PA)	393.34 (1)(2)	812.96 (1)	393.34 (1)	
Fontaine (Green Co., AR)		326.89		
Greensburg (Westmoreland Co., PA)	393.34 (1)(2)	767.22 (1)	393.34 (1)	
Harford Mills (Cortland Co., NY)	552.68 (1)	867.09 (1)	575.40 (1)	
Lebanon (Boone Co., IN)		410.35 (4)		
Oneonta (Otsego Co., NY)	598.28	936.93 (1)	617.58 (1)	
Princeton (Gibson Co., IN)		446.68		
Schaefferstown (Lebanon Co., PA)	579.94 (2)	876.41	572.26	
Selkirk (Albany Co., NY)	649.12	996.22 (1)	650.81 (1)	
Seymour (Jackson Co., IN)		389.93		
Sinking Spring (Berks Co., PA)	579.94 (2)	876.41	572.26	
Todhunter Truck Terminal (Butler Co., OH)		656.17		
Twin Oaks(Delaware Co., PA)	713.74 (2) (3)		713.74 (3)	
Watkins Glen (Schuyler Co., NY)	531.97 (1)	822.75 (1)	556.14 (1)	
West Memphis (Crittenden Co., AR)		347.95 (4)		
Monee (Will Co., IL)		1476.04 (7)		

APPENDIX 3A

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

March 1, 2022

To: All Customers

# **Re: Fuel Surcharge Notice**

As of Monday February 28, 2022, the Department of Energy New England average price per gallon of diesel fuel was \$4.158. All deliveries invoiced from Sunday, March 6, 2022 through Saturday, March 12, 2022 will be line item assessed at 19.5% fuel surcharge. Thank you and should you have any questions, please contact Susan Noyes at 1-800-648-1075 extension 223.

Best Regards,

APPENDIX 3B

Northern Gas Transport Inc. - Selkirk to Keene

Northern Gas Transport Inc Selkirk to Keene						
Gallons	BaseRate	BaseCharge	Fuel Surcharge Ra	Surcharge	TotalCharge	Total Rate Per Gallon
9,200	\$0.0891	\$819.72	1.00%	\$8.20	\$827.92	\$0.0900
9,200	\$0.0891	\$819.72	2.00%	\$16.39	\$836.11	\$0.0909
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 9,200	\$0.0891 \$0.0891	\$819.72 \$819.72	5.50% 6.00%	\$45.08 \$49.18	\$864.80 \$868.90	\$0.0940 \$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	\$0.0891	\$819.72	9.50%	\$77.87	\$897.59	\$0.0976
9,200	\$0.0891	\$819.72	10.00%	\$81.97	\$901.69	\$0.0980
9,200	\$0.0891	\$819.72	10.50%	\$86.07	\$905.79	\$0.0985
9,200 9,200	\$0.0891	\$819.72 \$819.72	11.00% 11.50%	\$90.17 \$94.27	\$909.89 \$913.99	\$0.0989
9,200	\$0.0891 \$0.0891	\$819.72	12.00%	\$94.27 \$98.37	\$913.99 \$918.09	\$0.0993 \$0.0998
9,200	\$0.0891 \$0.0891	\$819.72	12.50%	\$98.37 \$102.47	\$922.19	\$0.0998
9,200	\$0.0891	\$819.72	13.00%	\$106.56	\$926.28	\$0.1002
9,200	\$0.0891	\$819.72	13.50%	\$110.66	\$930.38	\$0.1011
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 \$0.0891	\$819.72 \$819.72	17.50% 18.00%	\$143.45 \$147.55	\$963.17	\$0.1047 \$0.1051
9,200 9,200	\$0.0891	\$819.72	18.50%	\$147.55 \$151.65	\$967.27 \$971.37	\$0.1051
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	\$0.1065
9,200	\$0.0891	\$819.72	20.00%	\$163.94	\$983.66	\$0,1069
9,200	\$0.0891	\$819.72	20.50%	\$168.04	\$987.76	\$0.1074
9,200	\$0.0891	\$819.72	21.00%	\$172.14	\$991.86	\$0.1078
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 9,200	\$0.0891 \$0.0891	\$819.72 \$819.72	23.00% 23.50%	\$188.54 \$192.63	\$1,008.26	\$0.1096 \$0.1100
9,200	\$0.0891	\$819.72	23.50%	\$192.63	\$1,012.35 \$1,016.45	\$0.1105
9,200	\$0.0891	\$819.72	24.00%	\$200.83	\$1,010.45	\$0.1105
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%	\$229.52	\$1,049.24	\$0.1140 \$0.1145
9,200 9,200	\$0.0891 \$0.0891	\$819.72 \$819.72	28.50% 29.00%	\$233.62 \$237.72	\$1,053.34 \$1,057.44	\$0.1145 \$0.1149
9,200	\$0.0891	\$819.72	29.50%	\$241.82	\$1,057.44	\$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 9,200	\$0.0891 \$0.0891	\$819.72 \$819.72	33.50% 34.00%	\$274.61 \$278.70	\$1,094.33 \$1.098.42	\$0.1189 \$0.1194
9,200	\$0.0891 \$0.0891	\$819.72	34.00%	\$278.70	\$1,098.42 \$1,102.52	\$0.1194
9,200	\$0.0891	\$819.72	35.00%	\$282.80	\$1,102.52 \$1,106.62	\$0.1198
9,200	\$0.0891	\$819.72	35.50%	\$291.00	\$1,110.72	\$0.1200
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	\$819.72	38.00%	\$311.49	\$1,131.21	\$0.1230
9,200	\$0.0891	\$819.72	38.50%	\$315.59	\$1,135.31	\$0.1234
9,200 9,200	\$0.0891 \$0.0891	\$819.72 \$819.72	39.00% 39.50%	\$319.69 \$323.79	\$1,139.41 \$1,143.51	\$0.1238 \$0.1243
9,200	\$0.0891 \$0.0891	\$819.72 \$819.72	39.50% 40.00%	\$323.79 \$327.89	\$1,143.51 \$1,147.61	\$0.1243 \$0.1247
9,200	\$0.0891	\$819.72	41.00%	\$336.09	\$1,155.81	\$0.1256
9,200	\$0.0891	\$819.72	41.50%	\$340.18	\$1,159.90	\$0.1261
.,						•••••

0.0649	Prior to 4/5/05 Prior to 5/2/06 Prior to 5/1/07
	Prior to 5/1/08 5/1/2008

Difference 0.0375

042