



Catherine A. McNamara
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July 24, 2018

Via ERF and US Mail

NHPUC 26JUL'18PM12:07

Debra A. Howland
Executive Director
New Hampshire Public Utilities Commission
21 S. Fruit Street, Suite 10
Concord, NH 03301-2429

**RE: DG 17-135 Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities and
DG 18-052 Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities - Keene
Division
2018 Summer Period Cost of Gas – August 2018 Monthly COG Adjustment**

Dear Ms. Howland:

On behalf of Liberty Utilities (EnergyNorth Natural Gas) Corp. and Liberty Utilities (EnergyNorth Natural Gas) Corp. - Keene Division and in accordance with New Hampshire Public Utilities Commission Order No. 26,066 (October 31, 2017) in Docket DG 17-135 and Order No. 26,126 (May 1, 2018) in Docket DG 18-052, I enclose for filing the current (August) calculations of the projected over or under collection of gas costs for the 2018 Summer season ending October 31, 2018.

The calculations reflect the NYMEX closing prices as of July 17, 2018. The resulting ENNG projected over collection, excluding Keene, of \$423,534 is approximately 6.65% of the total revised anticipated gas costs for the 2018 summer season. The resulting ENNG Keene projected under collection of approximately \$25,809 is approximately 10.67% of the total revised anticipated gas costs for the 2018 summer season.

Liberty elects to implement the ENNG COG increase (excluding Keene) of \$0.0538 per therm. Liberty also elects to implement the ENNG Keene COG decrease of \$0.2290 per therm for the July 1st billing cycle.

The current and revised cost of gas rates are summarized in the following table.

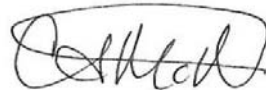
	<u>ENNG Excluding Keene Cost of Gas Rate</u>		
	<u>Current</u>	<u>Revised</u>	<u>Change</u>
	<u>Rate</u>	<u>Rate</u>	
Residential	\$0.3127	\$0.3665	\$0.0538
Commercial/Industrial High Winter Use	\$0.3066	\$0.3604	\$0.0538
Commercial/Industrial Low Winter Use	\$0.3335	\$0.3873	\$0.0538

	<u>ENNG Keene Cost of Gas Rate</u>		
	<u>Current</u>	<u>Revised</u>	<u>Change</u>
	<u>Rate</u>	<u>Rate</u>	
Residential & Commercial/Industrial	\$0.9752	\$0.7462	(\$0.2290)

Please note this report has been filed via the Commission's Electronic Report Filing system.

Thank you for your attention to this matter. Please do not hesitate to call if you have any questions.

Sincerely,



Catherine A. McNamara

Enclosures

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

Calculation of the Projected Over or Under Collection of the
2018 Summer COG
DG 17-135

August 1, 2018

Estimated Under/(Over) Collection as of 07/1/18		\$	240,397
Forecasted firm Residential therm sales 7/1/18 - 10/31/18	6,741,212		
Residential Cost of Gas Rate per therm	\$ (0.3127)		
Forecasted firm C&I High Winter Use therm sales 7/1/18 - 10/31/18	859,574		
C&I- High Winter Use Cost of Gas Rate per therm	\$ (0.3335)		
Forecasted firm C&I Low Winter therm sales 7/1/18 - 10/31/18	2,162,323		
C&I- Low Winter Use Cost of Gas Rate per therm	\$ (0.3066)		
Forecast recovered costs at current rate 07/1/18 - 10/31/18			(3,057,613)
Revised projected gas costs 07/1/18 - 10/31/18		\$	3,252,755
Estimated interest charged (credited) to customers 07/1/18-10/31/18			(12,004)
Projected under / (over) collection as of 10/31/18 (A)		\$	423,534

Actual Gas Costs through 07/1/18	\$	3,140,776
Revised projected gas costs 08/1/18 - 10/31/18	\$	3,240,750
Estimated total adjusted gas costs 07/1/18 - 10/31/18 (B)	\$	6,369,522

Under/ (over) collection as percent of total gas costs (A/B)	6.65%
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Projected under / (over) collections as of 10/31/18 (A)	\$	423,534
Forecasted firm therm sales 08/01/18 - 10/31/18		7,872,130
Change in rate used to reduce forecast under/(over) collection	\$	0.0538
Current Cost of Gas Rate	\$	0.3127
Revised Cost of Gas Rate	\$	0.3665
Cap - Residential Cost of Gas Rate	\$	0.3916

ENERGYNORTH NATURAL GAS, INC.

Projected Over or Under Collection

Without Rate Adjustment	Beginning Under/(Over)	May-18 (Actual)	Jun-18 (Actual)	Jul-18 (Estimate)	Aug-18 (Estimate)	Sep-18 (Estimate)	Oct-18 (Estimate)	Total Peak
Total Gas Costs		\$ 1,790,052	\$ 1,418,314	\$ 884,049	\$ 805,888	\$ 792,246	\$ 1,524,905	\$ 7,215,453
Adjustments and Indirect Costs								
Refunds & Adjustments		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
COG Bad Debt		-	-	-	-	-	-	-
Inventory Financing		-	-	-	-	-	-	-
Transportation Revenue		-	-	(22,942)	(25,112)	(23,668)	(20,465)	(92,187)
Broker Revenue		-	-	(57,798)	(260,455)	(87,418)	(56,671)	(462,343)
Off System and Capacity Release		-	-	(9,523)	(8,400)	(14,105)	(12,378)	(44,406)
Fixed Price Option Admin.		-	-	-	-	-	-	-
Bad Debt Costs		(5,724)	(60,749)	(28,993)	(25,219)	(33,995)	(62,951)	(217,630)
Working Capital		1,132	(206)	(1,812)	(1,576)	(2,125)	(3,934)	(8,521)
Misc Overhead		-	-	694	608	809	1,474	3,585
Production & Storage		405	405	405	405	405	405	2,433
Total Indirect Costs		\$ (4,186)	\$ (60,549)	\$ (119,969)	\$ (319,749)	\$ (160,096)	\$ (154,520)	\$ (819,069)
Interest		(2,719)	(135)	(3,129)	(2,528)	(2,471)	(3,876)	\$ (14,858)
Total Gas Costs plus Indirect Costs	\$ (1,020,256)	1,783,146	1,357,630	760,951	483,611	629,680	1,366,508	\$ 5,361,270
Total Forecasted Sales Volumes		12,635,276	6,838,969	1,890,979	1,655,112	2,203,627	4,013,391	29,237,353
Total Forecasted Collections		893,509	986,614	591,594	519,044	691,470	1,255,505	\$ 4,937,735
With Rate Adjustment	Beginning Under/(Over)	May-18 (Actual)	Jun-18 (Actual)	Jul-18 (Estimate)	Aug-18 (Estimate)	Sep-18 (Estimate)	Oct-18 (Estimate)	Total Peak
Total Gas Costs		\$ 1,790,052	\$ 1,418,314	\$ 884,049	\$ 805,888	\$ 792,246	\$ 1,524,905	\$ 7,215,453
Adjustments and Indirect Costs								
Refunds & Adjustments		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
COG Bad Debt		-	-	-	-	-	-	-
Inventory Financing		-	-	-	-	-	-	-
Transportation Revenue		-	-	(22,942)	(25,112)	(23,668)	(20,465)	(92,187)
Broker Revenue		-	-	(57,798)	(260,455)	(87,418)	(56,671)	(462,343)
Off System and Capacity Release		-	-	(9,523)	(8,400)	(14,105)	(12,378)	(44,406)
Fixed Price Option Admin.		-	-	-	-	-	-	-
Bad Debt Costs		(5,724)	(60,749)	(28,993)	(25,219)	(33,995)	(62,951)	(217,630)
Working Capital		1,132	(206)	(1,812)	(1,576)	(2,125)	(3,934)	(8,521)
Misc Overhead		-	-	694	608	809	1,474	3,585
Production & Storage		405	405	405	405	405	405	2,433
Total Indirect Costs		\$ (4,186)	\$ (60,549)	\$ (119,969)	\$ (319,749)	\$ (160,096)	\$ (154,520)	\$ (819,069)
Interest		(2,719)	(135)	(3,129)	(2,528)	(2,471)	(3,890)	\$ (14,872)
Total Gas Costs plus Indirect Costs	\$ (1,020,256)	1,783,146	1,357,630	760,951	483,611	629,680	1,366,494	\$ 5,361,256
Total Forecasted Sales Volumes		12,635,276	6,838,969	1,890,979	1,655,112	2,203,627	4,013,391	29,237,353
Total Forecasted Collections		893,509	986,614	591,594	608,089	810,025	1,471,425	\$ 5,361,256

LIBERTY UTILITIES - KEENE DIVISION
PRIOR PERIOD (OVER)/UNDER COLLECTION
SUMMER PERIOD 2018

	<u>PRIOR</u>	<u>Actual May-18</u>	<u>Actual Jun-18</u>	<u>Estimated Jul-18</u>	<u>Estimated Aug-18</u>	<u>Estimated Sep-18</u>	<u>Estimated Oct-18</u>	<u>TOTAL</u>
<u>COSTS</u>								
1 FIRM SENDOUT (therms)		54,606	43,521	44,693	46,581	48,457	88,456	326,314
2 COMPANY USE (therms)		2,356	2,202	2,002	2,126	2,170	2,699	13,555
3 TOTAL SENDOUT (therms)		56,962	45,723	46,695	48,707	50,627	91,155	339,869
4 COST PER THERM		\$1.2055	\$1.2025	\$1.1839	\$1.1656	\$1.1568	\$1.1389	\$1.1713
5 DIRECT PROPANE PURCHASED COSTS		\$68,665	\$54,982	\$55,284	\$56,773	\$58,567	\$103,815	\$398,086
6 PROPANE COST ADJUSTMENTS		\$ (155,515)	(\$676)	\$0	\$0	\$0	\$0	(\$156,190)
7 CNG DEMAND CHARGES		\$ 10,417	\$10,417	\$0	\$0	\$0	\$0	\$20,833
8 UNAPPROVED CNG CHARGES		\$ (10,417)	\$(10,417)	\$0	\$0	\$0	\$0	(\$20,833)
9 UNBILLED PROPANE COSTS (NET)		(\$65,772)	\$23,864	\$41,908	\$0	\$0	\$0	\$0
10 TOTAL PROPANE COSTS		(\$152,622)	\$78,170	\$97,192	\$56,773	\$58,567	\$103,815	\$241,895
<u>REVENUES</u>								
11 FIRM SALES (therms)		111,614	53,960	44,129	38,460	35,670	38,574	322,407
12 RATE PER THERM		\$0.9995	\$1.0765	\$0.9752	\$0.9752	\$0.9752	\$0.9752	\$1.1343
13 TOTAL REVENUES		\$157,664	\$54,894	\$43,035	\$37,506	\$34,785	\$37,617	\$365,501
14 (OVER)/UNDER COLLECTION		(\$310,286)	\$23,276	\$54,158	\$19,267	\$23,782	\$66,197	(\$123,607)
15 INTEREST AMOUNT		(\$204)	(\$733)	(\$191)	(\$181)	(\$166)	(\$78)	(\$1,553)
16 TOTAL (OVER)/UNDER COLLECTION - FINAL	\$ 99,350	(\$310,490)	\$22,542	\$53,968	\$19,086	\$23,616	\$66,119	(\$25,809)
17 FORECASTED (OVER)/UNDER COLLECTION (before rate change)								(\$25,809)
18 DIVIDED BY REMAINING FORECASTED SALES FOR PERIOD								112,704
19 CHANGE TO COG RATE REQUIRED TO ELIMINATE FORECASTED OVER/UNDER COLLECTION								(\$0.2290)
20 CURRENT COST OF GAS RATE								\$0.9752
21 BEGINNING SUMMER PERIOD COST OF GAS RATE								\$0.9995
22 MAXIMUM ALLOWABLE COST OF GAS RATE								\$1.2494
23 MAXIMUM ALLOWABLE INCREASE								\$0.2499
24 REVISED COST OF GAS RATE								\$0.7462

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP D/B/A LIBERTY UTILITIES - KEENE DIVISION ELECTS TO IMPLEMENT A \$0.2290 DECREASE TO THE COST OF GAS RATE.

	<u>May-18</u>	<u>Jun-18</u>	<u>Jul-18</u>	<u>Aug-18</u>	<u>Sep-18</u>	<u>Oct-18</u>
25 <u>Mont Belvieu Futures Prices (per gallon)</u>						
26 Summer COG Filing - quotations	\$ 0.9121	\$ 0.7306	\$ 0.7294	\$ 0.7319	\$ 0.7350	\$ 0.7400
27 June 1 Rate Update - 05/15/18 quotations	\$ 0.9121	\$ 0.9300	\$ 0.9225	\$ 0.9200	\$ 0.9200	\$ 0.9188
28 July 1 Rate Update -06/14/18 quotations		\$ 0.8871	\$ 0.8846	\$ 0.8871	\$ 0.8896	\$ 0.8907
29 August 1 Rate Update -07/17/18 quotations			\$ 0.9071	\$ 0.8725	\$ 0.8725	\$ 0.8725

CHECK SHEET

The title page and pages 1-148 inclusive of this tariff are effective as of the date shown on the individual tariff pages.

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23	Original
24	Original

DATED: July 24, 2018

ISSUED BY: /s/Susan L. Fleck
Susan L. Fleck

EFFECTIVE: August 01, 2018

TITLE: President

Authorized by NHPUC Order No. 26,066 dated October 31, 2017, in Docket No. DG 17-135 and Order No. 26,126 dated May 1, 2018 in Docket DG 18-052

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81	Original
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83	Original
84	Fourth Revised
85	Fourth Revised
86	Fourth Revised

DATED: July 24, 2018

ISSUED BY: /s/Susan L. Fleck
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DATED: July 24, 2018

ISSUED BY: /s/Susan L. Fleck
Susan L. Fleck

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Authorized by NHPUC Order No. 26,066 dated October 31, 2017, in Docket No. DG 17-135 and Order No. 26,126 dated May 1, 2018 in Docket DG 18-052

22 FIRM RATE SCHEDULES EXCLUDING KEENE CUSTOMERS

	Rates effective March 1, 2018 - April 30, 2018 Winter Period				Rates Effective August 1, 2018 - October 31, 2018 Summer Period			
	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 92</u>	<u>LDAC Charge</u>	<u>Total Rate</u>	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 89</u>	<u>LDAC Page 97</u>	<u>Total Rate</u>
<u>Residential Non Heating - R-1</u>								
Customer Charge per Month per Meter	\$16.88			\$16.88	\$ 15.02			\$ 15.02
All therms	\$0.2231	\$ 0.8056	\$ 0.0856	\$ 1.1143	\$ 0.3938	\$ 0.3665	\$ 0.0945	\$ 0.8548
<u>Residential Heating - R-3</u>								
Customer Charge per Month per Meter	\$24.43			\$24.43	\$ 15.02			\$ 15.02
Size of the first block	100 therms				all therms			
Therms in the first block per month at	\$0.3863	\$ 0.8056	\$ 0.0856	\$ 1.2775	\$ 0.5631	\$ 0.3665	\$ 0.0945	\$ 1.0241
All therms over the first block per month at	\$0.3197	\$ 0.8056	\$ 0.0856	\$ 1.2109				
<u>Residential Heating - R-4</u>								
Customer Charge per Month per Meter	\$9.77			\$9.77	\$ 6.00			\$ 6.00
Size of the first block	100 therms				all therms			
Therms in the first block per month at	\$0.1545	\$ 0.8056	\$ 0.0856	\$ 1.0457	\$ 0.2252	\$ 0.3665	\$ 0.0945	\$ 0.6862
All therms over the first block per month at	\$0.1278	\$ 0.8056	\$ 0.0856	\$ 1.0190				
<u>Commercial/Industrial - G-41</u>								
Customer Charge per Month per Meter	\$53.45			\$53.45	\$ 56.58			\$ 56.58
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$0.4383	\$ 0.8041	\$ 0.0674	\$ 1.3098	\$ 0.4639	\$ 0.3604	\$ 0.0763	\$ 0.9006
All therms over the first block per month at	\$0.2944	\$ 0.8041	\$ 0.0674	\$ 1.1659	\$ 0.3116	\$ 0.3604	\$ 0.0763	\$ 0.7483
<u>Commercial/Industrial - G-42</u>								
Customer Charge per Month per Meter	\$160.36			\$160.36	\$ 169.75			\$ 169.75
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$0.3986	\$ 0.8041	\$ 0.0674	\$ 1.2701	\$ 0.4219	\$ 0.3604	\$ 0.0763	\$ 0.8586
All therms over the first block per month at	\$0.2655	\$ 0.8041	\$ 0.0674	\$ 1.1370	\$ 0.2811	\$ 0.3604	\$ 0.0763	\$ 0.7178
<u>Commercial/Industrial - G-43</u>								
Customer Charge per Month per Meter	\$688.20			\$688.20	\$ 728.47			\$ 728.47
All therms over the first block per month at	\$0.2449	\$ 0.8041	\$ 0.0674	\$ 1.1164	\$ 0.1185	\$ 0.3604	\$ 0.0763	\$ 0.5552
<u>Commercial/Industrial - G-51</u>								
Customer Charge per Month per Meter	\$53.45			\$53.45	\$ 56.58			\$ 56.58
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$0.2642	\$ 0.8200	\$ 0.0674	\$ 1.1516	\$ 0.2796	\$ 0.3873	\$ 0.0763	\$ 0.7432
All therms over the first block per month at	\$0.1717	\$ 0.8200	\$ 0.0674	\$ 1.0591	\$ 0.1817	\$ 0.3873	\$ 0.0763	\$ 0.6453
<u>Commercial/Industrial - G-52</u>								
Customer Charge per Month per Meter	\$160.36			\$160.36	\$ 169.75			\$ 169.75
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$0.2268	\$ 0.8200	\$ 0.0674	\$ 1.1142	\$ 0.1740	\$ 0.3873	\$ 0.0763	\$ 0.6376
All therms over the first block per month at	\$0.1511	\$ 0.8200	\$ 0.0674	\$ 1.0385	\$ 0.0989	\$ 0.3873	\$ 0.0763	\$ 0.5625
<u>Commercial/Industrial - G-53</u>								
Customer Charge per Month per Meter	\$708.24			\$708.24	\$ 749.68			\$ 749.68
All therms over the first block per month at	\$0.1585	\$ 0.8200	\$ 0.0674	\$ 1.0459	\$ 0.0805	\$ 0.3873	\$ 0.0763	\$ 0.5441
<u>Commercial/Industrial - G-54</u>								
Customer Charge per Month per Meter	\$708.24			\$708.24	\$ 749.68			\$ 749.68
All therms over the first block per month at	\$0.0605	\$ 0.8200	\$ 0.0674	\$ 0.9479	\$ 0.0347	\$ 0.3873	\$ 0.0763	\$ 0.4983

DATED: July 24, 2018

ISSUED BY: /s/Susan L. Fleck

EFFECTIVE: August 01, 2018

Susan L. Fleck
TITLE: President

23 FIRM RATE SCHEDULES KEENE CUSTOMERS

Rates Effective August 1, 2018 - October 31, 2018
Summer Period [1]

	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 96</u>	<u>LDAC Page 90</u>	<u>Total Rate</u>
<u>Residential Non Heating - R-1</u>				
Customer Charge per Month per Meter	\$ 15.02			\$ 15.02
All therms	\$ 0.3938	\$ 0.7462	\$ 0.0945	\$ 1.4635
<u>Residential Heating - R-3</u>				
Customer Charge per Month per Meter	\$ 15.02			\$ 15.02
Size of the first block	all therms			
Therms in the first block per month at	\$ 0.5631	\$ 0.7462	\$ 0.0945	\$ 1.6328
All therms over the first block per month at				
<u>Residential Heating - R-4</u>				
Customer Charge per Month per Meter	\$ 6.00			\$ 6.00
Size of the first block	all therms			
Therms in the first block per month at	\$ 0.2252	\$ 0.7462	\$ 0.0945	\$ 1.2949
All therms over the first block per month at				
<u>Commercial/Industrial - G-41</u>				
Customer Charge per Month per Meter	\$ 56.58			\$ 56.58
Size of the first block	20 therms			
Therms in the first block per month at	\$ 0.4639	\$ 0.7462	\$ 0.0763	\$ 1.5154
All therms over the first block per month at	\$ 0.3116	\$ 0.7462	\$ 0.0763	\$ 1.3631
<u>Commercial/Industrial - G-42</u>				
Customer Charge per Month per Meter	\$ 169.75			\$169.75
Size of the first block	400 therms			
Therms in the first block per month at	\$ 0.4219	\$ 0.7462	\$ 0.0763	\$ 1.4734
All therms over the first block per month at	\$ 0.2811	\$ 0.7462	\$ 0.0763	\$ 1.3326
<u>Commercial/Industrial - G-43</u>				
Customer Charge per Month per Meter	\$ 728.47			\$728.47
All therms over the first block per month at	\$ 0.1185	\$ 0.7462	\$ 0.0763	\$ 1.1700
<u>Commercial/Industrial - G-51</u>				
Customer Charge per Month per Meter	\$ 56.58			\$56.58
Size of the first block	100 therms			
Therms in the first block per month at	\$ 0.2796	\$ 0.7462	\$ 0.0763	\$ 1.3311
All therms over the first block per month at	\$ 0.1817	\$ 0.7462	\$ 0.0763	\$ 1.2332
<u>Commercial/Industrial - G-52</u>				
Customer Charge per Month per Meter	\$ 169.75			\$ 169.75
Size of the first block	1000 therms			
Therms in the first block per month at	\$ 0.1740	\$ 0.7462	\$ 0.0763	\$ 1.2255
All therms over the first block per month at	\$ 0.0989	\$ 0.7462	\$ 0.0763	\$ 1.1504
<u>Commercial/Industrial - G-53</u>				
Customer Charge per Month per Meter	\$ 749.68			\$749.68
All therms over the first block per month at	\$ 0.0805	\$ 0.7462	\$ 0.0763	\$ 1.1320
<u>Commercial/Industrial - G-54</u>				
Customer Charge per Month per Meter	\$ 749.68			\$749.68
All therms over the first block per month at	\$ 0.0347	\$ 0.7462	\$ 0.0763	\$ 1.0862

[1] For Keene rates in effect prior to May 1, 2018 please see tariff:
NHPUC NO. 1 - GAS LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP D/B/A
LIBERTY UTILITIES - KEENE DIVISION

DATED: July 24, 2018

ISSUED BY: /s/Susan L. Fleck
Susan L. Fleck

EFFECTIVE: August 01, 2018

TITLE: President

**24 FIRM RATE SCHEDULES EXCLUDING KEENE CUSTOMERS- MANAGED
EXPANSION PROGRAM**

	II RATE SCHEDULES FIRM RATE SCHEDULES				FIRM RATE SCHEDULES			
	Rates effective March 1, 2018 - April 30, 2018 Winter Period				Rates Effective August 1, 2018 - October 31, 2018 Summer Period			
	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 92</u>	<u>LDAC Charge</u>	<u>Total Rate</u>	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 89</u>	<u>LDAC Page 97</u>	<u>Total Rate</u>
Residential Non Heating - R-5								
Customer Charge per Month per Meter	\$21.94			\$21.94	\$ 19.52			\$ 19.52
All therms	\$0.2900	\$0.8056	\$0.0856	\$1.1812	\$ 0.5119	\$ 0.3665	\$ 0.0945	\$ 0.9191
Residential Heating - R-6								
Customer Charge per Month per Meter	\$31.76			\$31.76	\$ 19.52			\$ 19.52
All therms					\$ 0.7320	\$ 0.3665	\$ 0.0945	\$ 1.1392
Size of the first block	100 therms							
Therms in the first block per month at	\$0.5022	\$ 0.8056	\$ 0.0856	\$ 1.3934				
All therms over the first block per month at	\$0.4156	\$ 0.8056	\$ 0.0856	\$ 1.3068				
Residential Heating - R-7								
Customer Charge per Month per Meter	\$12.70			\$12.70	\$ 7.81			\$ 7.81
All therms					\$ 0.2928	\$ 0.3665	\$ 0.0945	\$ 0.7000
Size of the first block	100 therms							
Therms in the first block per month at	\$0.2009	\$ 0.8056	\$ 0.0856	\$ 1.0921				
All therms over the first block per month at	\$0.1661	\$ 0.8056	\$ 0.0856	\$ 1.0573				
Commercial/Industrial - G-44								
Customer Charge per Month per Meter	\$69.49			\$69.49	\$ 73.56			\$ 73.56
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$0.5698	\$ 0.8041	\$ 0.0674	\$ 1.4413	\$ 0.6031	\$ 0.3604	\$ 0.0763	\$ 0.9860
All therms over the first block per month at	\$0.3827	\$ 0.8041	\$ 0.0674	\$ 1.2542	\$ 0.4051	\$ 0.3604	\$ 0.0763	\$ 0.7880
Commercial/Industrial - G-45								
Customer Charge per Month per Meter	\$208.47			\$208.47	\$ 220.68			\$ 220.68
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$0.5182	\$ 0.8041	\$ 0.0674	\$ 1.3897	\$ 0.5485	\$ 0.3604	\$ 0.0763	\$ 0.9314
All therms over the first block per month at	\$0.3452	\$ 0.8041	\$ 0.0674	\$ 1.2167	\$ 0.3654	\$ 0.3604	\$ 0.0763	\$ 0.7483
Commercial/Industrial - G-46								
Customer Charge per Month per Meter	\$894.66			\$894.66	\$ 947.01			\$ 947.01
All therms over the first block per month at	\$0.3184	\$0.8041	\$0.0674	\$1.1899	\$ 0.1540	\$ 0.3604	\$ 0.0763	\$ 0.5369
Commercial/Industrial - G-55								
Customer Charge per Month per Meter	\$69.49			\$69.49	\$ 73.56			\$ 73.56
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$0.3434	\$ 0.8200	\$ 0.0674	\$ 1.2308	\$ 0.3635	\$ 0.3873	\$ 0.0763	\$ 0.7733
All therms over the first block per month at	\$0.2232	\$ 0.8200	\$ 0.0674	\$ 1.1106	\$ 0.2363	\$ 0.3873	\$ 0.0763	\$ 0.6461
Commercial/Industrial - G-56								
Customer Charge per Month per Meter	\$208.47			\$208.47	\$ 220.68			\$ 220.68
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$0.2949	\$ 0.8200	\$ 0.0674	\$ 1.1823	\$ 0.2262	\$ 0.3873	\$ 0.0763	\$ 0.6360
All therms over the first block per month at	\$0.1964	\$ 0.8200	\$ 0.0674	\$ 1.0838	\$ 0.1286	\$ 0.3873	\$ 0.0763	\$ 0.5384
Commercial/Industrial - G-57								
Customer Charge per Month per Meter	\$920.72			\$920.72	\$ 974.59			\$ 974.59
All therms over the first block per month at	\$0.2061	\$0.8200	\$0.0674	\$1.0935	\$ 0.1047	\$ 0.3873	\$ 0.0763	\$ 0.5145
Commercial/Industrial - G-58								
Customer Charge per Month per Meter	\$920.72			\$920.72	\$ 974.59			\$ 974.59
All therms over the first block per month at	\$0.0786	\$0.8200	\$0.0674	\$0.9660	\$ 0.0451	\$ 0.3873	\$ 0.0763	\$ 0.4549

DATED: July 24, 2018

ISSUED BY: /s/Susan L. Fleck
Susan L. Fleck

EFFECTIVE: August 01, 2018

TITLE: President

**27 CALCULATION OF FIRM SALES SUMMER PERIOD COST OF GAS RATE
EXCLUDING KEENE CUSTOMERS**

CALCULATION OF FIRM SALES COST OF GAS RATE
PERIOD COVERED: SUMMER PERIOD, MAY 1, 2018 THROUGH OCTOBER 31, 2018
(Refer to Text in Section 16 Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 5,899,258	
Projected Prorated Sales (05/01/18 - 10/31/18)	19,395,370	
Direct Cost of Gas Rate		\$ 0.3042 per therm
Demand Cost of Gas Rate	\$ 3,898,265	\$ 0.2010 per therm
Commodity Cost of Gas Rate	2,801,331	\$ 0.1444 per therm
Adjustment Cost of Gas Rate	(800,338)	\$ (0.0413) per therm
Total Direct Cost of Gas Rate	\$ 5,899,258	\$ 0.3042 per therm
Total Anticipated Indirect Cost of Gas	\$ 177,463	
Projected Prorated Sales (05/01/18 - 10/31/18)	19,395,370	
Indirect Cost of Gas		\$ 0.0091 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/18		\$ 0.3133 per therm

RESIDENTIAL COST OF GAS RATE - 05/01/2018	COGsr	\$ 0.3133 /therm
Change in rate due to change in under/over recovery		\$ 0.0783
RESIDENTIAL COST OF GAS RATE - 06/01/2018	COGsr	\$ 0.3916 /therm
Change in rate due to change in under/over recovery		\$ (0.0789)
RESIDENTIAL COST OF GAS RATE - 07/01/2018	COGsr	\$ 0.3127 /therm
Change in rate due to change in under/over recovery		\$ 0.0538
RESIDENTIAL COST OF GAS RATE - 08/01/2018	COGsr	\$ 0.3665 /therm

Maximum (COG + 25%) \$ 0.3916

COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/2018	COGsl	\$ 0.3299 /therm
Change in rate due to change in under/over recovery		\$ 0.0825
COM/IND LOW WINTER USE COST OF GAS RATE - 06/01/2018	COGsl	\$ 0.4124 /therm
Change in rate due to change in under/over recovery		\$ (0.0789)
COM/IND LOW WINTER USE COST OF GAS RATE - 07/01/2018	COGsl	\$ 0.3335 /therm
Change in rate due to change in under/over recovery		\$ 0.0538
COM/IND LOW WINTER USE COST OF GAS RATE - 08/01/2018	COGsl	\$ 0.3873 /therm

Average Demand Cost of Gas Rate Effective 05/01/18	\$ 0.2010		
Times: Low Winter Use Ratio (Summer)	1.0892	Maximum (COG + 25%)	\$ 0.4124
Times: Correction Factor	0.9942		
Adjusted Demand Cost of Gas Rate	<u>\$ 0.2177</u>		
Commodity Cost of Gas Rate	\$ 0.1444		
Adjustment Cost of Gas Rate	\$ (0.0413)		
Indirect Cost of Gas Rate	\$ 0.0091		
Adjusted Com/Ind Low Winter Use Cost of Gas Rate	<u>\$ 0.3299</u>		

COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/2018	COGsh	\$ 0.3084 /therm
Change in rate due to change in under/over recovery		\$ 0.0771
COM/IND HIGH WINTER USE COST OF GAS RATE - 06/01/2018	COGsh	\$ 0.3855 /therm
Change in rate due to change in under/over recovery		\$ (0.0789)
COM/IND HIGH WINTER USE COST OF GAS RATE - 07/01/2018	COGsl	\$ 0.3066 /therm
Change in rate due to change in under/over recovery		\$ 0.0538
COM/IND HIGH WINTER USE COST OF GAS RATE - 08/01/2018	COGsl	\$ 0.3604 /therm

Average Demand Cost of Gas Rate Effective 05/01/18	\$ 0.2010		
Times: High Winter Use Ratio (Summer)	0.9820	Maximum (COG + 25%)	\$ 0.3855
Times: Correction Factor	0.9942		
Adjusted Demand Cost of Gas Rate	<u>\$ 0.1962</u>		
Commodity Cost of Gas Rate	\$ 0.1444		
Adjustment Cost of Gas Rate	\$ (0.0413)		
Indirect Cost of Gas Rate	\$ 0.0091		
Adjusted Com/Ind High Winter Use Cost of Gas Rate	<u>\$ 0.3084</u>		

DATED: July 24, 2018

ISSUED BY: /s/Susan L. Fleck

EFFECTIVE: August 01, 2018

Susan L. Fleck
TITLE: President

28 CALCULATION OF SUMMER PERIOD COST OF GAS RATE – KEENE CUSTOMERS
LIBERTY UTILITIES - KEENE DIVISION

Period Covered: Summer Period May 1, 2018, through October 31, 2018

Projected Gas Sales - therms	324,490
Total Anticipated Cost of Propane Sendout	\$415,169
Add: Prior Period Deficiency Uncollected Interest	\$0 \$0
Deduct: Prior Period Excess Collected Interest	(\$87,881) (\$2,955)
Prior Period Adjustments and Interest	(\$90,836)
Total Anticipated Cost	<u>\$324,333</u>
Cost of Gas Rate - Beginning Period (per therm)	<u>\$0.9995</u>
Mid Period Adjustment - June 1, 2018	\$0.0770
Mid Period Adjustment - July 1, 2018	(\$0.1013)
Mid Period Adjustment - August 1, 2018	(\$0.2290)
Revised Cost of Gas Rate - Effective August 1, 2018 (per therm)	<u>\$0.7462</u>
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)	<u>\$1.2494</u>

DATED: July 24, 2018

ISSUED BY: /s/Susan L. Fleck
Susan L. Fleck

EFFECTIVE: August 01, 2018

TITLE: President