



Catherine A. McNamara
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August 24, 2018

Via ERF and US Mail

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
2018 Summer Period Cost of Gas – September 2018 Monthly COG Adjustment**

Dear Ms. Howland:

On behalf of Liberty Utilities (EnergyNorth Natural Gas) Corp. and in accordance with New Hampshire Public Utilities Commission Order No. 26,066 (October 31, 2017) in Docket DG 17-135, I enclose for filing the current (September) 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 August 17, 2018. The resulting ENNG projected under collection, excluding Keene, of \$408,190 is approximately 5.62% of the total revised anticipated gas costs for the 2018 summer season.

The calculated revised COG is an increase of \$0.0657 which is higher than the maximum allowed rate increase. Liberty elects to implement the maximum allowed ENNG COG increase (excluding Keene) of \$0.0251 per therm. for the September 1st billing cycle.

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

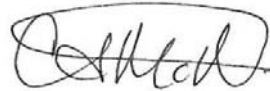
	<u>ENNG Excluding Keene Cost of Gas Rate</u>		
	<u>Current</u>	<u>Revised</u>	<u>Change</u>
	<u>Rate</u>	<u>Rate</u>	
Residential	\$0.3665	\$0.3916	\$0.0251
Commercial/Industrial High Winter Use	\$0.3604	\$0.3855	\$0.0251
Commercial/Industrial Low Winter Use	\$0.3873	\$0.4124	\$0.0251

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

Debra A. Howland
DG 17-135
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Thank you for your attention to this matter. Please do not hesitate to call if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "C. McNamara", enclosed within a hand-drawn oval border.

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

September 1, 2018

Estimated Under/(Over) Collection as of 08/1/18		\$ 630,125
Forecasted firm Residential therm sales 8/1/18 - 10/31/18	5,608,482	
Residential Cost of Gas Rate per therm	<u>\$ (0.3665)</u>	
Forecasted firm C&I High Winter Use therm sales 8/1/18 - 10/31/18	677,016	
C&I- High Winter Use Cost of Gas Rate per therm	<u>\$ (0.3873)</u>	
Forecasted firm C&I Low Winter therm sales 8/1/18 - 10/31/18	1,586,632	
C&I- Low Winter Use Cost of Gas Rate per therm	<u>\$ (0.3604)</u>	
Forecast recovered costs at current rate 08/1/18 - 10/31/18		(2,889,539)
Revised projected gas costs 08/1/18 - 10/31/18		\$ 2,675,750
Estimated interest charged (credited) to customers 08/1/18-10/31/18		(8,145)
Projected under / (over) collection as of 10/31/18 (A)		<u>\$ 408,190</u>

Actual Gas Costs through 08/1/18	\$ 4,607,580
Revised projected gas costs 09/1/18 - 10/31/18	<u>\$ 2,667,604</u>
Estimated total adjusted gas costs 08/1/18 - 10/31/18 (B)	<u>\$ 7,267,039</u>

Under/ (over) collection as percent of total gas costs (A/B)	5.62%
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Projected under / (over) collections as of 10/31/18 (A)	\$ 408,190
Forecasted firm therm sales 08/01/18 - 10/31/18	6,217,018
Change in rate used to reduce forecast under/(over) collection	\$ 0.0657
Current Cost of Gas Rate	\$ 0.3665
Revised Cost of Gas Rate	\$ 0.4322
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 (Actual)	Aug-18 (Estimate)	Sep-18 (Estimate)	Oct-18 (Estimate)	Total Peak
Total Gas Costs		\$ 1,790,052	\$ 1,418,314	\$ 1,510,747	\$ 821,409	\$ 846,860	\$ 1,642,177	\$ 8,029,559
Adjustments and Indirect Costs								
Refunds & Adjustments		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
COG Bad Debt		-	-	-	-	-	-	-
Inventory Financing		-	-	-	-	-	-	-
Transportation Revenue		-	-	-	(25,112)	(23,668)	(20,465)	(69,245)
Broker Revenue		-	-	-	(260,455)	(87,418)	(56,671)	(404,544)
Off System and Capacity Release		-	-	-	(8,400)	(14,105)	(12,378)	(34,883)
Fixed Price Option Admin.		-	-	-	-	-	-	-
Bad Debt Costs		(5,724)	(60,749)	(41,087)	(25,219)	(33,995)	(62,951)	(229,725)
Working Capital		1,132	(206)	(4,953)	(1,576)	(2,125)	(3,934)	(11,662)
Misc Overhead		-	-	-	538	716	1,305	2,560
Production & Storage		405	405	405	405	405	405	2,433
Total Indirect Costs		\$ (4,186)	\$ (60,549)	\$ (45,635)	\$ (319,819)	\$ (160,188)	\$ (154,689)	\$ (745,066)
Interest		(2,719)	(135)	1,691	(2,496)	(2,301)	(3,348)	(9,308)
Total Gas Costs plus Indirect Costs	\$ (1,020,256)	1,783,146	1,357,630	1,466,804	499,094	684,370	1,484,140	\$ 6,254,928
Total Forecasted Sales Volumes		12,635,276	6,838,969	5,676,540	1,655,112	2,203,627	4,013,391	33,022,915
Total Forecasted Collections		893,509	986,614	1,077,077	608,089	810,025	1,471,425	\$ 5,846,738
With Rate Adjustment	Beginning Under/(Over)	May-18 (Actual)	Jun-18 (Actual)	Jul-18 (Actual)	Aug-18 (Estimate)	Sep-18 (Estimate)	Oct-18 (Estimate)	Total Peak
Total Gas Costs		\$ 1,790,052	\$ 1,418,314	\$ 1,510,747	\$ 821,409	\$ 846,860	\$ 1,642,177	\$ 8,029,559
Adjustments and Indirect Costs								
Refunds & Adjustments		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
COG Bad Debt		-	-	-	-	-	-	-
Inventory Financing		-	-	-	-	-	-	-
Transportation Revenue		-	-	-	(25,112)	(23,668)	(20,465)	(69,245)
Broker Revenue		-	-	-	(260,455)	(87,418)	(56,671)	(404,544)
Off System and Capacity Release		-	-	-	(8,400)	(14,105)	(12,378)	(34,883)
Fixed Price Option Admin.		-	-	-	-	-	-	-
Bad Debt Costs		(5,724)	(60,749)	(41,087)	(25,219)	(33,995)	(62,951)	(229,725)
Working Capital		1,132	(206)	(4,953)	(1,576)	(2,125)	(3,934)	(11,662)
Misc Overhead		-	-	-	538	716	1,305	2,560
Production & Storage		405	405	405	405	405	405	2,433
Total Indirect Costs		\$ (4,186)	\$ (60,549)	\$ (45,635)	\$ (319,819)	\$ (160,188)	\$ (154,689)	\$ (745,066)
Interest		(2,719)	(135)	1,691	(2,496)	(2,301)	(3,080)	(9,040)
Total Gas Costs plus Indirect Costs	\$ (1,020,256)	1,783,146	1,357,630	1,466,804	499,094	684,370	1,484,408	\$ 6,255,196
Total Forecasted Sales Volumes		12,635,276	6,838,969	5,676,540	1,655,112	2,203,627	4,013,391	33,022,915
Total Forecasted Collections		893,509	986,614	1,077,077	608,089	954,803	1,735,105	\$ 6,255,196

**Liberty Utilities (EnergyNorth Natural Gas) Corp.
Off Peak 2018 Summer Cost of Gas Filing**

Filed Tariff Sheets

Proposed Fifth Revised Page 1
Check Sheet

Proposed Fifth Revised Page 3
Check Sheet (Cont'd)

Proposed Fourth Revised Page 4
Check Sheet (Cont'd)

Proposed Fifth Revised Page 84
Calculation Firm Sales Cost of Gas Rate

Proposed Fifth Revised Page 86
Calculation of Firm Sales Cost of Gas Rate

Proposed Fourth Revised Page 89
Calculation of Firm Transportation Cost of Gas Rate

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TOC iv	Original
1	Fifth Revised
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3	Fifth Revised
4	Fourth Revised
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ISSUED BY: /s/Susan L. Fleck
Susan L. Fleck

EFFECTIVE: September 01, 2018

TITLE: President

<u>Page</u>	<u>Revision</u>
56	First Revised
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84	Fifth Revised
85	Fifth Revised
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Susan L. Fleck
TITLE: President

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ISSUED: August 24, 2018

ISSUED BY: /s/Susan L. Fleck

EFFECTIVE: September 01, 2018

Susan L. Fleck
TITLE: President

22 FIRM RATE SCHEDULES EXCLUDING KEENE CUSTOMERS

	Rates effective March 1, 2018 - April 30, 2018 Winter Period				Rates Effective September 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	\$ 0.3916	\$ 0.0945	\$ 0.8799
<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	\$ 0.3916	\$ 0.0945	\$ 1.0492
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	\$ 0.3916	\$ 0.0945	\$ 0.7113
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	\$ 0.3855	\$ 0.0763	\$ 0.9257
All therms over the first block per month at	\$0.2944	\$ 0.8041	\$ 0.0674	\$ 1.1659	\$ 0.3116	\$ 0.3855	\$ 0.0763	\$ 0.7734
<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	\$ 0.3855	\$ 0.0763	\$ 0.8837
All therms over the first block per month at	\$0.2655	\$ 0.8041	\$ 0.0674	\$ 1.1370	\$ 0.2811	\$ 0.3855	\$ 0.0763	\$ 0.7429
<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	\$ 0.3855	\$ 0.0763	\$ 0.5803
<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	\$ 0.4124	\$ 0.0763	\$ 0.7683
All therms over the first block per month at	\$0.1717	\$ 0.8200	\$ 0.0674	\$ 1.0591	\$ 0.1817	\$ 0.4124	\$ 0.0763	\$ 0.6704
<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	\$ 0.4124	\$ 0.0763	\$ 0.6627
All therms over the first block per month at	\$0.1511	\$ 0.8200	\$ 0.0674	\$ 1.0385	\$ 0.0989	\$ 0.4124	\$ 0.0763	\$ 0.5876
<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	\$ 0.4124	\$ 0.0763	\$ 0.5692
<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	\$ 0.4124	\$ 0.0763	\$ 0.5234

ISSUED: August 24, 2018

ISSUED BY: /s/Susan L. Fleck

EFFECTIVE: September 01, 2018

Susan L. Fleck
TITLE: President

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

	II RATE SCHEDULES FIRM RATE SCHEDULES							
	Rates effective March 1, 2018 - April 30, 2018 Winter Period				Rates Effective September 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-5</u>								
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	\$ 0.3916	\$ 0.0945	\$ 0.9191
<u>Residential Heating - R-6</u>								
Customer Charge per Month per Meter	\$31.76			\$31.76	\$ 19.52			\$ 19.52
All therms					\$ 0.7320	\$ 0.3916	\$ 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				
<u>Residential Heating - R-7</u>								
Customer Charge per Month per Meter	\$12.70			\$12.70	\$ 7.81			\$ 7.81
All therms					\$ 0.2928	\$ 0.3916	\$ 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				
<u>Commercial/Industrial - G-44</u>								
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	\$ 0.3855	\$ 0.0763	\$ 0.9860
All therms over the first block per month at	\$0.3827	\$ 0.8041	\$ 0.0674	\$ 1.2542	\$ 0.4051	\$ 0.3855	\$ 0.0763	\$ 0.7880
<u>Commercial/Industrial - G-45</u>								
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	\$ 0.3855	\$ 0.0763	\$ 0.9314
All therms over the first block per month at	\$0.3452	\$ 0.8041	\$ 0.0674	\$ 1.2167	\$ 0.3654	\$ 0.3855	\$ 0.0763	\$ 0.7483
<u>Commercial/Industrial - G-46</u>								
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	\$ 0.3855	\$ 0.0763	\$ 0.5369
<u>Commercial/Industrial - G-55</u>								
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	\$ 0.4124	\$ 0.0763	\$ 0.7733
All therms over the first block per month at	\$0.2232	\$ 0.8200	\$ 0.0674	\$ 1.1106	\$ 0.2363	\$ 0.4124	\$ 0.0763	\$ 0.6461
<u>Commercial/Industrial - G-56</u>								
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	\$ 0.4124	\$ 0.0763	\$ 0.6360
All therms over the first block per month at	\$0.1964	\$ 0.8200	\$ 0.0674	\$ 1.0838	\$ 0.1286	\$ 0.4124	\$ 0.0763	\$ 0.5384
<u>Commercial/Industrial - G-57</u>								
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	\$ 0.4124	\$ 0.0763	\$ 0.5145
<u>Commercial/Industrial - G-58</u>								
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	\$ 0.4124	\$ 0.0763	\$ 0.4549

ISSUED: August 24, 2018

ISSUED BY: /s/Susan L. Fleck

EFFECTIVE: September 01, 2018

Susan L. Fleck
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	COG_{sr}	\$ 0.3133 /therm
Change in rate due to change in under/over recovery		\$ 0.0783
RESIDENTIAL COST OF GAS RATE - 06/01/2018	COG_{sr}	\$ 0.3916 /therm
Change in rate due to change in under/over recovery		\$ (0.0789)
RESIDENTIAL COST OF GAS RATE - 07/01/2018	COG_{sr}	\$ 0.3127 /therm
Change in rate due to change in under/over recovery		\$ 0.0538
RESIDENTIAL COST OF GAS RATE - 08/01/2018	COG_{sr}	\$ 0.3665 /therm
Change in rate due to change in under/over recovery		\$ 0.0251
RESIDENTIAL COST OF GAS RATE - 09/01/2018	COG_{sr}	\$ 0.3916 /therm

Maximum (COG + 25%) \$ 0.3916

COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/2018	COG_{sl}	\$ 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	COG_{sl}	\$ 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	COG_{sl}	\$ 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	COG_{sl}	\$ 0.3873 /therm
Change in rate due to change in under/over recovery		\$ 0.0251
COM/IND LOW WINTER USE COST OF GAS RATE - 09/01/2018	COG_{sl}	\$ 0.4124 /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	<u>0.9942</u>		
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	<u>\$ 0.0091</u>		
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	COG_{sh}	\$ 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	COG_{sh}	\$ 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	COG_{sl}	\$ 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	COG_{sl}	\$ 0.3604 /therm
Change in rate due to change in under/over recovery		\$ 0.0251
COM/IND HIGH WINTER USE COST OF GAS RATE - 09/01/2018	COG_{sl}	\$ 0.3855 /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	<u>0.9942</u>		
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	<u>\$ 0.0091</u>		
Adjusted Com/Ind High Winter Use Cost of Gas Rate	<u>\$ 0.3084</u>		

ISSUED: August 24, 2018

ISSUED BY: /s/Susan L. Fleck

EFFECTIVE: September 01, 2018

TITLE: Susan L. Fleck
President