

## **Tariff Page Changes**

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**II RATE SCHEDULES**  
**FIRM RATE SCHEDULES**

	Winter Period				Summer Period			
	Delivery Charge	Cost of Gas Rate Page 77	LDAC Page 82	Total Rate	Delivery Charge	Cost of Gas Rate Page 77	LDAC Page 82	Total Rate
<b><u>Residential Non Heating - R-1</u></b>								
Customer Charge per Month per Meter	\$ 16.88			\$ 16.88	\$ 16.88			\$ 16.88
All Therms	\$ 0.2231	\$ 0.6659	\$ 0.0856	\$ 0.9746	\$ 0.2231	\$ 0.3144	\$ 0.0856	\$ 0.6231
	<del>\$ 0.2018</del>	<del>\$ 0.4002</del>	<del>\$ 0.0640</del>	<del>\$ 0.6660</del>				
<b><u>Residential Heating - R-3</u></b>								
Customer Charge per Month per Meter	\$ 24.43			\$ 24.43	\$ 24.43			\$ 24.43
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.3863	\$ 0.6659	\$ 0.0856	\$ 1.1378	\$ 0.3863	\$ 0.3144	\$ 0.0856	\$ 0.7863
	<del>\$ 0.3495</del>	<del>\$ 0.4002</del>	<del>\$ 0.0640</del>	<del>\$ 0.8137</del>				
All therms over the first block per month at	\$ 0.3197	\$ 0.6659	\$ 0.0856	\$ 1.0712	\$ 0.3197	\$ 0.3144	\$ 0.0856	\$ 0.7197
	<del>\$ 0.2892</del>	<del>\$ 0.4002</del>	<del>\$ 0.0640</del>	<del>\$ 0.7534</del>				
<b><u>Residential Heating - R-4</u></b>								
Customer Charge per Month per Meter	\$ 9.77			\$ 9.77	\$ 9.77			\$ 9.77
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.1545	\$ 0.6659	\$ 0.0856	\$ 0.9060	\$ 0.1545	\$ 0.3144	\$ 0.0856	\$ 0.5545
	<del>\$ 0.1398</del>	<del>\$ 0.4002</del>	<del>\$ 0.0640</del>	<del>\$ 0.6040</del>				
All therms over the first block per month at	\$ 0.1278	\$ 0.6659	\$ 0.0856	\$ 0.8793	\$ 0.1278	\$ 0.3144	\$ 0.0856	\$ 0.5278
	<del>\$ 0.1156</del>	<del>\$ 0.4002</del>	<del>\$ 0.0640</del>	<del>\$ 0.5798</del>				
<b><u>Commercial/Industrial - G-41</u></b>								
Customer Charge per Month per Meter	\$ 53.45			\$ 53.45	\$ 53.45			\$ 53.45
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.4383	\$ 0.6647	\$ 0.0674	\$ 1.1704	\$ 0.4383	\$ 0.3095	\$ 0.0674	\$ 0.8152
	<del>\$ 0.3965</del>	<del>\$ 0.3961</del>	<del>\$ 0.0450</del>	<del>\$ 0.8376</del>				
All therms over the first block per month at	\$ 0.2944	\$ 0.6647	\$ 0.0674	\$ 1.0265	\$ 0.2944	\$ 0.3095	\$ 0.0674	\$ 0.6713
	<del>\$ 0.2663</del>	<del>\$ 0.3961</del>	<del>\$ 0.0450</del>	<del>\$ 0.7074</del>				
<b><u>Commercial/Industrial - G-42</u></b>								
Customer Charge per Month per Meter	\$ 160.36			\$ 160.36	\$ 160.36			\$ 160.36
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.3986	\$ 0.6647	\$ 0.0674	\$ 1.1307	\$ 0.3986	\$ 0.3095	\$ 0.0674	\$ 0.7755
	<del>\$ 0.3606</del>	<del>\$ 0.3961</del>	<del>\$ 0.0450</del>	<del>\$ 0.8017</del>				
All therms over the first block per month at	\$ 0.2655	\$ 0.6647	\$ 0.0674	\$ 0.9976	\$ 0.2655	\$ 0.3095	\$ 0.0674	\$ 0.6424
	<del>\$ 0.2402</del>	<del>\$ 0.3961</del>	<del>\$ 0.0450</del>	<del>\$ 0.6813</del>				
<b><u>Commercial/Industrial - G-43</u></b>								
Customer Charge per Month per Meter	\$ 688.20			\$ 688.20	\$ 688.20			\$ 688.20
All therms over the first block per month at	\$ 0.2449	\$ 0.6647	\$ 0.0674	\$ 0.9770	\$ 0.1120	\$ 0.3095	\$ 0.0674	\$ 0.4889
	<del>\$ 0.2216</del>	<del>\$ 0.3961</del>	<del>\$ 0.0450</del>	<del>\$ 0.6627</del>				
<b><u>Commercial/Industrial - G-51</u></b>								
Customer Charge per Month per Meter	\$ 53.45			\$ 53.45	\$ 53.45			\$ 53.45
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.2642	\$ 0.6774	\$ 0.0674	\$ 1.0090	\$ 0.2642	\$ 0.3310	\$ 0.0674	\$ 0.6626
	<del>\$ 0.2390</del>	<del>\$ 0.4145</del>	<del>\$ 0.0450</del>	<del>\$ 0.6985</del>				
All therms over the first block per month at	\$ 0.1717	\$ 0.6774	\$ 0.0674	\$ 0.9165	\$ 0.1717	\$ 0.3310	\$ 0.0674	\$ 0.5701
	<del>\$ 0.1553</del>	<del>\$ 0.4145</del>	<del>\$ 0.0450</del>	<del>\$ 0.6148</del>				
<b><u>Commercial/Industrial - G-52</u></b>								
Customer Charge per Month per Meter	\$ 160.36			\$ 160.36	\$ 160.36			\$ 160.36
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.2268	\$ 0.6774	\$ 0.0674	\$ 0.9716	\$ 0.1644	\$ 0.3310	\$ 0.0674	\$ 0.5628
	<del>\$ 0.2052</del>	<del>\$ 0.4145</del>	<del>\$ 0.0450</del>	<del>\$ 0.6647</del>				
All therms over the first block per month at	\$ 0.1511	\$ 0.6774	\$ 0.0674	\$ 0.8959	\$ 0.0934	\$ 0.3310	\$ 0.0674	\$ 0.4918
	<del>\$ 0.1367</del>	<del>\$ 0.4145</del>	<del>\$ 0.0450</del>	<del>\$ 0.5962</del>				
<b><u>Commercial/Industrial - G-53</u></b>								
Customer Charge per Month per Meter	\$ 708.24			\$ 708.24	\$ 708.24			\$ 708.24
All therms over the first block per month at	\$ 0.1585	\$ 0.6774	\$ 0.0674	\$ 0.9033	\$ 0.0760	\$ 0.3310	\$ 0.0674	\$ 0.4744
	<del>\$ 0.1434</del>	<del>\$ 0.4145</del>	<del>\$ 0.0450</del>	<del>\$ 0.6029</del>				
<b><u>Commercial/Industrial - G-54</u></b>								
Customer Charge per Month per Meter	\$ 708.24			\$ 708.24	\$ 708.24			\$ 708.24
All therms over the first block per month at	\$ 0.0605	\$ 0.6774	\$ 0.0674	\$ 0.8053	\$ 0.0328	\$ 0.3310	\$ 0.0674	\$ 0.4312
	<del>\$ 0.0547</del>	<del>\$ 0.4145</del>	<del>\$ 0.0450</del>	<del>\$ 0.5142</del>				

Issued: March 24, 2017 October xx, 2017

Effective: April 1, 2017 November 1, 2017

Issued in compliance with NHPUC Order No. xx,xxx dated October xx, 2017 in Docket DG 17-xxx.  
Issued in compliance with NHPUC Order No. 25,958 dated October 26, 2016 in Docket DG 16-814.

Issued by: \_\_\_\_\_  
James M. Sweeney  
  
Title: President

II RATE SCHEDULES  
FIRM RATE SCHEDULES

	Winter Period				Summer Period			
	Delivery Charge	Cost of Gas Rate Page 77	LDAC Page 82	Total Rate	Delivery Charge	Cost of Gas Rate Page 77	LDAC Page 82	Total Rate
<b>Residential Non Heating - R-5</b>								
Customer Charge per Month per Meter	\$21.94			\$ 21.94	\$ 21.94			\$ 21.94
All Therms	\$ 0.2900	\$ 0.6659	\$ 0.0856	\$ 1.0415	\$ 0.2900	\$ 0.3144	\$ 0.0856	\$ 0.6900
	<del>\$-0.2623</del>	<del>\$-0.4002</del>	<del>\$-0.0640</del>	<del>\$-0.7265</del>				
<b>Residential Heating - R-6</b>								
Customer Charge per Month per Meter	\$31.76			\$ 31.76	\$ 31.76			\$ 31.76
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.5022	\$ 0.6659	\$ 0.0856	\$ 1.2537	\$ 0.5022	\$ 0.3144	\$ 0.0856	\$ 0.9022
	<del>\$-0.4544</del>	<del>\$-0.4002</del>	<del>\$-0.0640</del>	<del>\$-0.9186</del>				
All therms over the first block per month at	\$ 0.4156	\$ 0.6659	\$ 0.0856	\$ 1.1671	\$ 0.4156	\$ 0.3144	\$ 0.0856	\$ 0.8156
	<del>\$-0.3760</del>	<del>\$-0.4002</del>	<del>\$-0.0640</del>	<del>\$-0.8402</del>				
<b>Residential Heating - R-7</b>								
Customer Charge per Month per Meter	\$12.70			\$ 12.70	\$ 12.70			\$ 12.70
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.2009	\$ 0.6659	\$ 0.0856	\$ 0.9524	\$ 0.2009	\$ 0.3144	\$ 0.0856	\$ 0.6009
	<del>\$-0.1817</del>	<del>\$-0.4002</del>	<del>\$-0.0640</del>	<del>\$-0.6459</del>				
All therms over the first block per month at	\$ 0.1661	\$ 0.6659	\$ 0.0856	\$ 0.9176	\$ 0.1661	\$ 0.3144	\$ 0.0856	\$ 0.5661
	<del>\$-0.1503</del>	<del>\$-0.4002</del>	<del>\$-0.0640</del>	<del>\$-0.6145</del>				
<b>Commercial/Industrial - G-44</b>								
Customer Charge per Month per Meter	\$69.49			\$ 69.49	\$ 69.49			\$ 69.49
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.5698	\$ 0.6647	\$ 0.0674	\$ 1.3019	\$ 0.5698	\$ 0.3095	\$ 0.0674	\$ 0.9467
	<del>\$-0.5155</del>	<del>\$-0.3961</del>	<del>\$-0.0450</del>	<del>\$-0.9566</del>				
All therms over the first block per month at	\$ 0.3827	\$ 0.6647	\$ 0.0674	\$ 1.1148	\$ 0.3827	\$ 0.3095	\$ 0.0674	\$ 0.7596
	<del>\$-0.3462</del>	<del>\$-0.3961</del>	<del>\$-0.0450</del>	<del>\$-0.7873</del>				
<b>Commercial/Industrial - G-45</b>								
Customer Charge per Month per Meter	\$208.47			\$ 208.47	\$ 208.47			\$ 208.47
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.5182	\$ 0.6647	\$ 0.0674	\$ 1.2503	\$ 0.5182	\$ 0.3095	\$ 0.0674	\$ 0.8951
	<del>\$-0.4688</del>	<del>\$-0.3961</del>	<del>\$-0.0450</del>	<del>\$-0.9099</del>				
All therms over the first block per month at	\$ 0.3452	\$ 0.6647	\$ 0.0674	\$ 1.0773	\$ 0.3452	\$ 0.3095	\$ 0.0674	\$ 0.7221
	<del>\$-0.3123</del>	<del>\$-0.3961</del>	<del>\$-0.0450</del>	<del>\$-0.7534</del>				
<b>Commercial/Industrial - G-46</b>								
Customer Charge per Month per Meter	\$894.66			\$ 894.66	\$ 894.66			\$ 894.66
All therms over the first block per month at	\$ 0.3184	\$ 0.6647	\$ 0.0674	\$ 1.0505	\$ 0.1456	\$ 0.3095	\$ 0.0674	\$ 0.5225
	<del>\$-0.2881</del>	<del>\$-0.3961</del>	<del>\$-0.0450</del>	<del>\$-0.7292</del>				
<b>Commercial/Industrial - G-55</b>								
Customer Charge per Month per Meter	\$69.49			\$ 69.49	\$ 69.49			\$ 69.49
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.3434	\$ 0.6774	\$ 0.0674	\$ 1.0882	\$ 0.3434	\$ 0.3310	\$ 0.0674	\$ 0.7418
	<del>\$-0.3107</del>	<del>\$-0.4145</del>	<del>\$-0.0450</del>	<del>\$-0.7702</del>				
All therms over the first block per month at	\$ 0.2232	\$ 0.6774	\$ 0.0674	\$ 0.9680	\$ 0.2232	\$ 0.3310	\$ 0.0674	\$ 0.6216
	<del>\$-0.2019</del>	<del>\$-0.4145</del>	<del>\$-0.0450</del>	<del>\$-0.6614</del>				
<b>Commercial/Industrial - G-56</b>								
Customer Charge per Month per Meter	\$208.47			\$ 208.47	\$ 208.47			\$ 208.47
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.2949	\$ 0.6774	\$ 0.0674	\$ 1.0397	\$ 0.2137	\$ 0.3310	\$ 0.0674	\$ 0.6121
	<del>\$-0.2667</del>	<del>\$-0.4145</del>	<del>\$-0.0450</del>	<del>\$-0.7262</del>				
All therms over the first block per month at	\$ 0.1964	\$ 0.6774	\$ 0.0674	\$ 0.9412	\$ 0.1214	\$ 0.3310	\$ 0.0674	\$ 0.5198
	<del>\$-0.1777</del>	<del>\$-0.4145</del>	<del>\$-0.0450</del>	<del>\$-0.6372</del>				
<b>Commercial/Industrial - G-57</b>								
Customer Charge per Month per Meter	\$920.72			\$ 920.72	\$ 920.72			\$ 920.72
All therms over the first block per month at	\$ 0.2061	\$ 0.6774	\$ 0.0674	\$ 0.9509	\$ 0.0989	\$ 0.3310	\$ 0.0674	\$ 0.4973
	<del>\$-0.1864</del>	<del>\$-0.4145</del>	<del>\$-0.0450</del>	<del>\$-0.6459</del>				
<b>Commercial/Industrial - G-58</b>								
Customer Charge per Month per Meter	\$920.72			\$ 920.72	\$ 920.72			\$ 920.72
All therms over the first block per month at	\$ 0.0786	\$ 0.6774	\$ 0.0674	\$ 0.8234	\$ 0.0427	\$ 0.3310	\$ 0.0674	\$ 0.4411
	<del>\$-0.0711</del>	<del>\$-0.4145</del>	<del>\$-0.0450</del>	<del>\$-0.5306</del>				

Issued: March 24, 2017 October xx, 2017

Effective April 1, 2017 November 1, 2017

Issued in compliance with NHPUC Order No. xx,xxx dated October xx, 2017 in Docket DG 17-xxx.  
Issued in compliance with NHPUC Order No. 25,958 dated October 26, 2016 in Docket DG 16-814.

Issued by: \_\_\_\_\_  
James M. Sweeney  
Title: President

Anticipated Cost of Gas  
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2017 THROUGH APRIL 30, 2018  
~~PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2016 THROUGH APRIL 30, 2017~~  
(REFER TO TEXT ON IN SECTION 16 COST OF GAS CLAUSE)

(Col 1)	(Col-2)	(Col-3)	(Col 2)	(Col 3)
<b>ANTICIPATED DIRECT COST OF GAS</b>				
<b>Purchased Gas:</b>				
Demand Costs:	\$ 7,517,898		\$ 9,099,131	
Supply Costs:	\$ 49,523,042		40,677,774	
<b>Storage Gas:</b>				
Demand, Capacity:	941,660		876,359	
Commodity Costs:	4,026,000		4,238,570	
<b>Produced Gas:</b>	1,797,499		4,764,207	
<b>Hedged Contract Savings</b>	—		-	
<b>Hedge Underground Storage Contract (Savings)/Loss</b>	—		-	
<b>Unadjusted Anticipated Cost of Gas</b>		\$ 63,816,099		\$ 59,656,041
<b>Adjustments:</b>				
Prior Period (Over)/Under Recovery (as of Nov 1, 2016 Nov 1, 2017)	\$ 2,690,610		\$ 1,714,057	
Interest	14,641		(90,332)	
Prior Period Adjustments	—		-	
Broker Revenues	(1,374,947)		(4,580,575)	
Refunds from Suppliers	—		-	
Fuel Financing	—		-	
Transportation CGA Revenues	(29,471)		(207,219)	
Interruptible Sales Margin	—		-	
Capacity Release and Off System Sales Margin	(5,448,856)		(2,099,545)	
Hedging Costs	—		-	
Fixed Price Option Administrative Costs	41,972		45,000	
<b>Total Adjustments</b>		(4,106,050)		(5,218,614)
<b>Total Anticipated Direct Cost of Gas</b>		\$ 59,710,049		\$ 54,437,427
<b>Anticipated Indirect Cost of Gas</b>				
<b>Working Capital:</b>				
Total anticipated Direct Cost of Gas (11/01/2016 - 04/30/2017) (11/01/17 - 04/30/18)	\$ 63,816,099		\$ 59,656,041	
Working Capital Rate	0.0391		0.0391	
Prime Rate	3.50%		4.25%	
Working Capital Percentage	13.700%		0.166%	
Working Capital	87,342		\$ 99,144	
Plus: Working Capital Reconciliation (Acct 142.20) (Acct 175.52)	(33,597)		(24,267)	
<b>Total Working Capital Allowance</b>		\$ 53,745		\$ 74,877
<b>Bad Debt:</b>				
Total anticipated Direct Cost of Gas (11/01/2016 - 04/30/2017) (11/01/17 - 04/30/18)	\$ 63,816,099		\$ 59,656,041	
Less: Refunds	—		-	
Plus: Total Working Capital	53,745		74,877	
Plus: Prior Period (Over)/Under Recovery	2,690,610		1,714,057	
<b>Subtotal</b>	\$ 66,560,454		\$ 61,444,974	
Bad Debt Percentage	4.04%		1.11%	
Bad Debt Allowance	2,689,042		\$ 682,039	
Plus: Bad Debt Reconciliation (Acct 175.52) (Acct 175.54)	(37,241)		(652,777)	
<b>Total Bad Debt Allowance</b>		2,651,801		29,262
<b>Production and Storage Capacity</b>		1,980,428		1,980,428
Miscellaneous Overhead (11/01/2016 - 04/30/2017) (11/01/17 - 04/30/18)	\$ 13,170		\$ 13,170	
Times Summer Winter Sales	90,536		85,411	
Divided by Total Sales	112,609		104,762	
<b>Miscellaneous Overhead</b>		10,589		10,737
<b>Total Anticipated Indirect Cost of Gas</b>		\$ 4,696,563		\$ 2,095,304
<b>Total Cost of Gas</b>		\$ 64,406,611		\$ 56,532,731

Dated: November 7, 2016 October xx, 2017

Issued by:

Effective: November 1, 2016 November 1, 2017

Title:

James M. Sweeney  
President

Issued in compliance with NHPUC Order No. xx,xxx dated October xx, 2017 in Docket DG 17-xxx.  
~~Issued in compliance with NHPUC Order No. 25,958 dated October 26, 2016 in Docket DG 16-814.~~

CALCULATION OF FIRM SALES COST OF GAS RATE  
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2017 THROUGH APRIL 30, 2018  
~~PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2016 THROUGH APRIL 30, 2017~~  
(Refer to Text in Section 16 Cost of Gas Clause)

(Col 1)	(Col-2)	(Col-3)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 59,710,049		\$ 54,437,427	
Projected Prorated Sales (11/01/17 - 04/30/18) <del>(11/01/16 - 04/30/17)</del>	<u>89,920,078</u>		84,893,215	
<b>Direct Cost of Gas Rate</b>		0.6640		\$ 0.6412 per therm
<b>Demand Cost of Gas Rate</b>	\$ 8,469,558	0.0942	\$ 9,975,490	\$ 0.1175
<b>Commodity Cost of Gas Rate</b>	<u>55,346,541</u>	<u>0.6155</u>	<u>49,680,551</u>	<u>0.5852</u>
<b>Adjustment Cost of Gas Rate</b>	<u>(4,106,050)</u>	<u>(0.0457)</u>	<u>(5,218,614)</u>	<u>(0.0615)</u>
<b>Total Direct Cost of Gas Rate</b>	\$ 59,710,049	0.6640	\$ 54,437,427	\$ 0.6412
Total Anticipated Indirect Cost of Gas	\$ 4,696,563		\$ 2,095,304	
Projected Prorated Sales (11/01/17 - 04/30/18) <del>(11/01/16 - 04/30/17)</del>	<u>89,920,078</u>		84,893,215	
<b>Indirect Cost of Gas</b>		0.0522		\$ 0.0247 per therm
<b>TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/17</b>				\$ 0.6659 per Therm
<b>TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/16</b>		0.7162		
<b>RESIDENTIAL COST OF GAS RATE - 11/01/17</b>				
		COGwr	\$ 0.6659	/therm
<b>RESIDENTIAL COST OF GAS RATE - 11/01/2016</b>				
		COGsr	\$ 0.7162	/therm
	Maximum	(COG + 25%)	\$ 0.8953	\$ 0.8324
<b>C&amp;I LOW WINTER USE COST OF GAS RATE - 11/01/17</b>				
		COGwl	\$ 0.6774	/therm
<b>COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/2016</b>				
		COGsl	\$ 0.7305	/therm
Average Demand Cost of Gas Rate Effective 11/01/16 11/01/2017	\$ 0.0942	\$ 0.1175	Maximum	(COG + 25%) \$ 0.9434 \$ 0.8468
Times: Low Winter Use Ratio (Winter)	1.1637	1.0892		
Times: Correction Factor	0.9898	1.0077		
Adjusted Demand Cost of Gas Rate	\$ 0.1085	\$ 0.1290		
Commodity Cost of Gas Rate	\$ 0.6155	\$ 0.5852		
Adjustment Cost of Gas Rate	(0.0457)	(0.0615)		
Indirect Cost of Gas Rate	0.0522	0.0247		
Adjusted C&I Low Winter Use Cost of Gas Rate	\$ 0.7305	\$ 0.6774		
<b>C&amp;I HIGH WINTER USE COST OF GAS RATE - 11/01/17</b>				
		COGwh	\$ 0.6647	/therm
<b>COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/2016</b>				
		COGsh	\$ 0.7121	/therm
Average Demand Cost of Gas Rate Effective 11/01/16 11/01/2017	\$ 0.0942	\$ 0.1175	Maximum	(COG + 25%) \$ 0.8904 \$ 0.8309
Times: High Winter Use Ratio (Winter)	0.9667	0.9820		
Times: Correction Factor	0.9898	1.0077		
Adjusted Demand Cost of Gas Rate	\$ 0.0904	\$ 0.1163		
Commodity Cost of Gas Rate	\$ 0.6155	\$ 0.5852	Minimum	
Adjustment Cost of Gas Rate	(0.0457)	(0.0615)	Maximum	
Indirect Cost of Gas Rate	0.0522	0.0247		
Adjusted C&I High Winter Use Cost of Gas Rate	\$ 0.7121	\$ 0.6647		

Issued: ~~November 7, 2016~~ October xx, 2017

Issued by: \_\_\_\_\_  
James M. Sweeney

Effective: ~~November 1, 2017~~ November 1, 2017

Title: President

Issued in compliance with NHPUC Order No. xx,xxx dated October xx, 2017 in Docket DG 17-xxx.  
~~Issued in compliance with NHPUC Order No. 25,958 dated October 26, 2016 in Docket DG 16-814.~~

**II. RATE SCHEDULES**  
**CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE**  
**PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2017 THROUGH APRIL 30, 2018**  
**PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2016 THROUGH APRIL 30, 2017**  
(Refer to Text in Section 17(A) Fixed Price Option Program)

(Col 1)	(Col 2)	(Col 3)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ <del>59,426,348</del>		\$ 54,437,427	
Projected Prorated Sales ( <del>11/01/2016 - 4/30/2017</del> ) (11/01/2017 - 4/30/2018)	<del>85,749,300</del>		84,893,215	
<b>Direct Cost of Gas Rate</b>		\$ <del>0.6930</del>		\$ 0.6412 per therm
<b>Demand Cost of Gas Rate</b>	\$ <del>8,946,044</del>	\$ <del>0.1043</del>	\$ 9,975,490	\$ 0.1175
<b>Commodity Cost of Gas Rate</b>	<del>60,664,327</del>	<del>0.7075</del>	49,680,551	0.5852
<b>Adjustment Cost of Gas Rate</b>	<del>(10,184,020)</del>	<del>(0.1188)</del>	<del>(5,218,614)</del>	<del>(0.0615)</del>
<b>Total Direct Cost of Gas Rate</b>	\$ <del>59,426,348</del>	\$ <del>0.6930</del>	\$ 54,437,427	\$ 0.6412
Total Anticipated Indirect Cost of Gas	\$ <del>5,026,252</del>		\$ 2,095,304	
Projected Prorated Sales ( <del>11/01/2016 - 4/30/2017</del> ) (11/01/2017 - 4/30/2018)	<del>85,749,300</del>		84,893,215	
<b>Indirect Cost of Gas</b>		\$ <del>0.0586</del>		\$ 0.0247 per therm
<b>TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE NOVEMBER 1, 2017-2016</b>		\$ <del>0.7516</del>		\$ 0.6659
<b>Calculation of FPO</b>				
<b>TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE</b>		\$ <del>0.7068</del>		\$ 0.6659
<b>FPO Risk Premium</b>		\$ 0.0200		\$ 0.0200
<b>TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (<del>11/01/2016</del>) (11/01/2017)</b>		\$ <del>0.7268</del>		\$ 0.6859
<b>RESIDENTIAL COST OF GAS RATE (<del>11/01/2016</del>) (11/01/2017)</b>	<b>COGwr</b>	\$ <del>0.7268</del> /therm		\$ 0.6859

Issued: August 28, 2015 October xx, 2017

Effective: November 1, 2015 November 1, 2017

Issued by: \_\_\_\_\_  
James M. Sweeney  
Title: President

Issued in compliance with NHPUC Order No. xx,xxx dated October xx, 2017 in Docket DG 17-xxx.  
~~Issued in compliance with NHPUC Order No. 25,591 dated October 31, 2013 in Docket DG 13-251.~~

**II. RATE SCHEDULES**

Calculation of Firm Transportation Cost of Gas Rate

PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2017 THROUGH APRIL 30, 2018

~~PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2016 THROUGH APRIL 30, 2017~~

(Refer to text in Section 16(Q) Firm Transportation Cost of Gas Clause)

(Col 1)	(Col-2)	(Col-3)	(Col-4)	(Col 2)	(Col 3)	(Col 4)
ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES:						
PROPANE	\$ <del>283,609</del>			\$ 2,145,938		
LNG	\$ <del>1,513,890</del>			2,618,269		
TOTAL ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES	<del>1,797,499</del>			4,764,207		
ESTIMATED PERCENTAGE USED FOR PRESSURE SUPPORT PURPOSES	9.9%			9.9%		
ESTIMATED COST OF LIQUIDS USED FOR PRESSURE SUPPORT PURPOSES	<del>\$ 177,952</del>			\$ 471,656		
PROJECTED FIRM THROUGHPUT (THERMS):						
FIRM SALES	<del>90,536,924</del>	64.4%		85,410,999	62.2%	
FIRM TRANSPORTATION SUBJECT TO FTCG	<del>50,086,696</del>	<del>35.6%</del>		51,964,128	<del>37.8%</del>	
TOTAL FIRM THROUGHPUT SUBJECT TO COST OF GAS CHARGE	<del>440,622,721</del>	100.0%		137,375,127	100.0%	
TRANSPORTATION SHARE OF SUPPLEMENTAL GAS SUPPLIES	35.6%	177,952 = \$ <del>63,383</del>		37.8% x \$ 471,656 = \$		178,411
PRIOR (OVER) OR UNDER COLLECTION			<del>(33,912)</del>			<u>28,808</u>
NET AMOUNT TO COLLECT FROM (RETURNED TO) TRANSPORTATION CUSTOMERS			\$ <del>29,471</del>			\$ 207,219
PROJECTED FIRM TRANSPORTATION THROUGHPUT			<del>50,086,696</del>			51,964,128
FIRM TRANSPORTATION COST OF GAS			\$0.0006			\$0.0040

Issued: ~~November 7, 2016~~ October xx, 2017

Effective: ~~November 1, 2016~~ November 1, 2017

Issued by:

James M. Sweeney

Title: President

Issued in compliance with NHPUC Order No. xx,xxx dated October xx, 2017 in Docket DG 17-xxx.

~~Issued in compliance with NHPUC Order No. 25,958 dated October 26, 2016 in Docket DG 16-814.~~



Environmental Surcharge - Manufactured Gas Plants

**Manufactured Gas Plants**

Required annual increase in rates	\$2,893,504	\$2,970,202
DG 10-17 Base Rate Revision Collections	\$0	\$0
Environmental Subtotal	\$2,893,504	\$2,970,202
Overall Annual Net Increase to Rates	\$2,893,504	\$2,970,202
Estimated weather normalized firm therms billed for the twelve months ended 10/31/18 <del>10/31/17</del> - sales and transportation		
	<del>186,909,214</del>	182,370,287 therms
Surcharge per therm	<u>\$0.0155</u>	<u>\$0.0163</u> per therm
<b><u>Total Environmental Surcharge</u></b>	\$0.0155	\$0.0163

Issued: ~~August 28, 2015~~ October xx, 2016

Issued by: \_\_\_\_\_  
James M. Sweeney

Effective: ~~November 1, 2015~~ November 1, 2016

Title: President

Issued in compliance with NHPUC Order No. xx,xxx dated October xx, 2017 in Docket DG 17-xxx.  
~~Issued in compliance with NHPUC Order No. 25,591 dated October 31, 2013 in Docket DG 13-251.~~

Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Utilities  
Local Distribution Adjustment Charge (LDAC) decrease due to Rate Case Expense and Recoupment  
For LDAC effective November 1, 2017 - October 31, 2018  
~~For LDAC effective November 1, 2016 - December 31, 2017~~  
Docket No. DG 14-180

1	August 1, 2016 Balance of Acct. 8840-2-0000-10-1930-1745	\$46,132
2	<del>Estimated August 2016 - October 2016 Recovery</del>	<del>(\$292,028)</del>
3	<del>Estimated August 2016 - October 2016 Interest</del>	<del>(\$761)</del>
4		
5	Estimated Balance November 1, 2016	(\$246,658)
6	<del>Estimated November 2016 - December 2016 Interest</del>	<del>(\$791)</del>
7		
8	Estimated Remaining Recovery	(\$247,449)
9		
10	Estimated November 2016 - December 2016 Sales (therms)	34,894,997
11		
12	RCE rate per therm November 2016 - December 2016	(\$0.0071)
1	Rate Case Expense in Docket No. DG 14-180	\$39,486
2	Recoupment in Docket No. DG 14-180	<u>\$1,167,759</u>
3		\$1,207,245
4		
5	Estimated November 2017 - October 2018 Interest	<u>\$21,681</u>
6		
7	Total Remaining Recovery	\$1,228,926
8		
9	Estimated November 2017 - October 2018 Sales (therms)	196,892,274
10		
11	RCE rate per therm November 2017 - October 2018	\$0.0062

Issued: October xx, 2017

Effective: November 1, 2017

Issued in compliance with NHPUC Order No. xx,xxx dated October xx, 2017 in Docket DG 17-xxx.

Issued by: \_\_\_\_\_  
James M. Sweeney  
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**Local Distribution Adjustment Charge Calculation**

			<b><u>Sales Customers</u></b>	<b><u>Transportation Customers</u></b>
<b><u>Residential Non Heating Rates - R-1</u></b>				
Energy Efficiency Charge	\$0.0402		\$0.0516	
Demand Side Management Charge	0.0000		0.0000	
Conservation Charge (CCx)		\$0.0402		\$0.0516
Relief Holder and pond at Gas Street, Concord, NH	0.0000		0.0000	
Manufactured Gas Plants	0.0155		0.0163	
Environmental Surcharge (ES)		0.0155		0.0163
Interruptible Transportation Margin Credit (ITMC)		0.0000		0.0000
Cost Allowance Adjustment Factor		0.0000		0.0019
Rate Case Expense Factor (RCEF)		(0.0074)		0.0062
Residential Low Income Assistance Program (RLIAP)		0.0067		0.0096
<b>LDAC</b>		<b>\$0.0553</b>	<b>\$0.0856</b>	<b>per therm</b>

<b><u>Residential Heating Rates - R-3, R-4, R-6, R-7</u></b>				
Energy Efficiency Charge	\$0.0402		\$0.0516	
Demand Side Management Charge	0.0000		0.0000	
Conservation Charge (CCx)		\$0.0402		\$0.0516
Relief Holder and pond at Gas Street, Concord, NH	0.0000		0.0000	
Manufactured Gas Plants	0.0155		0.0163	
Environmental Surcharge (ES)		0.0155		0.0163
Cost Allowance Adjustment Factor		0.0000		0.0019
Rate Case Expense Factor (RCEF)		(0.0074)		0.0062
Residential Low Income Assistance Program (RLIAP)		0.0067		0.0096
<b>LDAC</b>		<b>\$0.0553</b>	<b>\$0.0856</b>	<b>per therm</b>

<b><u>Commercial/Industrial Low Annual Use Rates - G-41, G-51, G-44, G-55</u></b>				
Energy Efficiency Charge	\$0.0219		\$0.0332	
Demand Side Management Charge	0.0000		0.0000	
Conservation Charge (CCx)		\$0.0219		\$0.0332
Relief Holder and pond at Gas Street, Concord, NH	0.0000		0.0000	
Manufactured Gas Plants	0.0155		0.0163	
Environmental Surcharge (ES)		0.0155		0.0163
Cost Allowance Adjustment Factor		0.0000		0.0021
Gas Restructuring Expense Factor (GREF)		0.0000		0.0000
Rate Case Expense Factor (RCEF)		(0.0074)		0.0062
Residential Low Income Assistance Program (RLIAP)		0.0067		0.0096
<b>LDAC</b>		<b>\$0.0370</b>	<b>\$0.0674</b>	<b>\$0.0370 per therm</b>

<b><u>Commercial/Industrial Medium Annual Use Rates - G-42, G-52, G-45, G-56</u></b>				
Energy Efficiency Charge	\$0.0256		\$0.0332	
Demand Side Management Charge	0.0000		0.0000	
Conservation Charge (CCx)		\$0.0219		\$0.0332
Relief Holder and pond at Gas Street, Concord, NH	0.0000		0.0000	
Manufactured Gas Plants	0.0144		0.0163	
Environmental Surcharge (ES)		0.0155		0.0163
Cost Allowance Adjustment Factor		0.0000		0.0021
Gas Restructuring Expense Factor (GREF)		0.0000		0.0000
Rate Case Expense Factor (RCEF)		(0.0074)		0.0062
Residential Low Income Assistance Program (RLIAP)		0.0067		0.0096
<b>LDAC</b>		<b>\$0.0370</b>	<b>\$0.0674</b>	<b>\$0.0370 per therm</b>

<b><u>Commercial/Industrial Large Annual Use Rates - G-43, G-53, G-54, G-46, G-56, G-57, G-58</u></b>				
Energy Efficiency Charge	\$0.0256		\$0.0332	
Demand Side Management Charge	0.0000		0.0000	
Conservation Charge (CCx)		\$0.0219		\$0.0332
Relief Holder and pond at Gas Street, Concord, NH	0.0000		0.0000	
Manufactured Gas Plants	0.0144		0.0163	
Environmental Surcharge (ES)		0.0155		0.0163
Cost Allowance Adjustment Factor		0.0000		0.0021
Gas Restructuring Expense Factor (GREF)		0.0000		0.0000
Rate Case Expense Factor (RCEF)		(0.0074)		0.0062
Residential Low Income Assistance Program (RLIAP)		0.0067		0.0096
<b>LDAC</b>		<b>\$0.0370</b>	<b>\$0.0674</b>	<b>\$0.0370 per therm</b>

Issued: ~~November 7, 2016~~ October xx, 2017

Issued by: \_\_\_\_\_

Effective: ~~November 1, 2016~~ November 1, 2017

Title: James M. Sweeney  
President

Issued in compliance with NHPUC Order No. xx,xxx dated October xx, 2017 in Docket DG 17-xxx.

Issued in compliance with NHPUC Order No. 25,958 dated October 26, 2016 in Docket DG 16-814.

### III DELIVERY TERMS AND CONDITIONS

NHPUC NO. 8 - GAS  
LIBERTY UTILITIES

Proposed ~~First Revised~~ Second Revised Page 143  
Superseding First Revised Page 143

#### ATTACHMENT B

#### Schedule of Administrative Fees and Charges

I.	Supplier Balancing Charge:	\$0.23	\$0.2 per MMBtu of Daily Imbalance Volumes
II.	Capacity Mitigation Fee	15%	15% of the Proceeds from the Marketing of Capacity for Mitigation.
III.	Peaking Demand Charge	\$11.39	20.06
IV.	Company Allowance Calculation (per Schedule 25)		
		164,344,430	Total Sendout - Therms Jul-2016 - Jun-2017
			Total Sendout - Therms Jul-2015 - Jun-2016
		160,948,361	Total Throughput - Therms Jul-2016 - Jun-2017
			Total Throughput - Therms Jul-2015 - Jun-2016
		3,396,069	Variance (Sendout - Throughput)
Company Allowance Percentage 2015-16	2014-15	2.5%	2.1% Variance / Total Sendout

Issued: ~~November 7, 2016~~ October xx, 2017

Issued by: \_\_\_\_\_

Effective: ~~November 1, 2016~~ November 1, 2017

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Issued in compliance with NHPUC Order No. xx,xxx dated October xx, 2017 in Docket DG 17-xxx.  
~~Issued in compliance with NHPUC Order No. 25,958 dated October 26, 2016 in Docket DG 16-814.~~

### III DELIVERY TERMS AND CONDITIONS

NHPUC NO. 8 - GAS  
LIBERTY UTILITIES

Proposed Second Revised Third Revised Page 144  
Superseding Second Revised Page 144

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ATTACHMENT C

CAPACITY ALLOCATORS

Rate Class		Pipeline	Storage	Peaking	Total
G-41	Low Annual /High Winter Use	<del>48.3%</del> 47.9%	<del>19.3%</del> 18.9%	<del>32.4%</del> 33.2%	100.0%
G-51	Low Annual /Low Winter Use	<del>75.4%</del> 72.9%	<del>9.2%</del> 9.8%	<del>15.4%</del> 17.3%	100.0%
G-42	Medium Annual / High Winter	<del>48.3%</del> 47.9%	<del>19.3%</del> 18.9%	<del>32.4%</del> 33.2%	100.0%
G-52	High Annual / Low Winter Use	<del>75.4%</del> 72.9%	<del>9.2%</del> 9.8%	<del>15.4%</del> 17.3%	100.0%
G-43	High Annual / High Winter	<del>48.3%</del> 47.9%	<del>19.3%</del> 18.9%	<del>32.4%</del> 33.2%	100.0%
G-53	High Annual / Load Factor < 90%	<del>75.4%</del> 72.9%	<del>9.2%</del> 9.8%	<del>15.4%</del> 17.3%	100.0%
G-54	High Annual / Load Factor > 90%	<del>75.4%</del> 72.9%	<del>9.2%</del> 9.8%	<del>15.4%</del> 17.3%	100.0%

Issued: ~~November 7, 2016~~ October xx, 2017

Issued by: \_\_\_\_\_

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~~Issued in compliance with NHPUC Order No. 25,958 dated October 26, 2016 in Docket DG 16-814.~~

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