

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
Residential Non Heating - R-1								
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
	\$ 0.2018	\$ 0.4002	\$ 0.0640	\$ 0.6660				
Residential Heating - R-3								
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
	\$ 0.3495	\$ 0.4002	\$ 0.0640	\$ 0.8137				
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
	\$ 0.2892	\$ 0.4002	\$ 0.0640	\$ 0.7534				
Residential Heating - R-4								
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
	\$ 0.1398	\$ 0.4002	\$ 0.0640	\$ 0.6040				
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
	\$ 0.1156	\$ 0.4002	\$ 0.0640	\$ 0.5798				
Commercial/Industrial - G-41								
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
	\$ 0.3965	\$ 0.3961	\$ 0.0450	\$ 0.8376				
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
	\$ 0.2663	\$ 0.3961	\$ 0.0450	\$ 0.7074				
Commercial/Industrial - G-42								
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
	\$ 0.3606	\$ 0.3961	\$ 0.0450	\$ 0.8017				
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
	\$ 0.2402	\$ 0.3961	\$ 0.0450	\$ 0.6813				
Commercial/Industrial - G-43								
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
	\$ 0.2216	\$ 0.3961	\$ 0.0450	\$ 0.6627				
Commercial/Industrial - G-51								
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
	\$ 0.2390	\$ 0.4145	\$ 0.0450	\$ 0.6985				
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
	\$ 0.1553	\$ 0.4145	\$ 0.0450	\$ 0.6148				
Commercial/Industrial - G-52								
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
	\$ 0.2052	\$ 0.4145	\$ 0.0450	\$ 0.6647				
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
	\$ 0.1367	\$ 0.4145	\$ 0.0450	\$ 0.5962				
Commercial/Industrial - G-53								
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
	\$ 0.1434	\$ 0.4145	\$ 0.0450	\$ 0.6029				
Commercial/Industrial - G-54								
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
	\$ 0.0547	\$ 0.4145	\$ 0.0450	\$ 0.5142				

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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
Residential Non Heating - R-5								
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
	\$-0.2623	\$-0.4002	\$-0.0640	\$-0.7265				
Residential Heating - R-6								
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
	\$-0.4544	\$-0.4002	\$-0.0640	\$-0.9186				
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
	\$-0.3760	\$-0.4002	\$-0.0640	\$-0.8402				
Residential Heating - R-7								
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
	\$-0.1817	\$-0.4002	\$-0.0640	\$-0.6459				
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
	\$-0.1503	\$-0.4002	\$-0.0640	\$-0.6145				
Commercial/Industrial - G-44								
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
	\$-0.5155	\$-0.3964	\$-0.0450	\$-0.9566				
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
	\$-0.3462	\$-0.3964	\$-0.0450	\$-0.7873				
Commercial/Industrial - G-45								
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
	\$-0.4688	\$-0.3964	\$-0.0450	\$-0.9099				
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
	\$-0.3123	\$-0.3964	\$-0.0450	\$-0.7534				
Commercial/Industrial - G-46								
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
	\$-0.2884	\$-0.3964	\$-0.0450	\$-0.7292				
Commercial/Industrial - G-55								
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
	\$-0.3107	\$-0.4145	\$-0.0450	\$-0.7702				
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
	\$-0.2019	\$-0.4145	\$-0.0450	\$-0.6614				
Commercial/Industrial - G-56								
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
	\$-0.2667	\$-0.4145	\$-0.0450	\$-0.7262				
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
	\$-0.1777	\$-0.4145	\$-0.0450	\$-0.6372				
Commercial/Industrial - G-57								
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
	\$-0.1864	\$-0.4145	\$-0.0450	\$-0.6459				
Commercial/Industrial - G-58								
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
	\$-0.0714	\$-0.4145	\$-0.0450	\$-0.5306				

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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-2)	(Col-3)	(Col 2)	(Col 3)
ANTICIPATED DIRECT COST OF GAS				
Purchased Gas:				
Demand Costs:	\$ 7,517,898		\$ 9,099,131	
Supply Costs:	<u>\$ 49,523,042</u>		40,677,774	
Storage Gas:				
Demand, Capacity:	941,660		876,359	
Commodity Costs:	<u>4,026,000</u>		4,238,570	
Produced Gas:				
	<u>1,797,499</u>		4,764,207	
Hedged Contract Savings				
	—		-	
Hedge Underground Storage Contract (Savings)/Loss				
	—		-	
Unadjusted Anticipated Cost of Gas				
		<u>\$ 63,816,099</u>		\$ 59,656,041
Adjustments:				
Prior Period (Over)/Under Recovery (as of Nov 1, 2016 Nov 1, 2017)	\$ 2,690,610		\$ 1,714,057	
Interest	<u>14,641</u>		(90,332)	
Prior Period Adjustments	—		-	
Broker Revenues	<u>(1,374,947)</u>		(4,580,575)	
Refunds from Suppliers	—		-	
Fuel Financing	—		-	
Transportation CGA Revenues	<u>(29,474)</u>		(207,219)	
Interruptible Sales Margin	—		-	
Capacity Release and Off System Sales Margin	<u>(5,448,856)</u>		(2,099,545)	
Hedging Costs	—		-	
Fixed Price Option Administrative Costs	<u>41,972</u>		45,000	
Total Adjustments		<u>(4,106,050)</u>		<u>(5,218,614)</u>
Total Anticipated Direct Cost of Gas				
		<u>\$ 59,710,049</u>		\$ 54,437,427
Anticipated Indirect Cost of Gas				
Working Capital:				
Total anticipated Direct Cost of Gas (44/04/2016 - 04/30/2017)(11/01/17 - 04/30/18)	\$ 63,816,099		\$ 59,656,041	
Working Capital Rate	0.0394		0.0391	
Prime Rate	3.50%		4.25%	
Working Capital Percentage	<u>13.700%</u>		<u>0.166%</u>	
Working Capital	87,342		\$ 99,144	
Plus: Working Capital Reconciliation (Acct 142.20)(Acct 175.52)	<u>(33,597)</u>		<u>(24,267)</u>	
Total Working Capital Allowance		<u>\$ 53,745</u>		\$ 74,877
Bad Debt:				
Total anticipated Direct Cost of Gas (44/04/2016 - 04/30/2017)(11/01/17 - 04/30/18)	\$ 63,816,099		\$ 59,656,041	
Less: Refunds	—		-	
Plus: Total Working Capital	<u>53,745</u>		74,877	
Plus: Prior Period (Over)/Under Recovery	<u>2,690,610</u>		1,714,057	
Subtotal	<u>\$ 66,560,454</u>		\$ 61,444,974	
Bad Debt Percentage	<u>4.04%</u>		<u>1.11%</u>	
Bad Debt Allowance	<u>2,689,042</u>		\$ 682,039	
Plus: Bad Debt Reconciliation (Acct 175.52)(Acct 175.54)	<u>(37,241)</u>		<u>(652,777)</u>	
Total Bad Debt Allowance		<u>2,651,801</u>		29,262
Production and Storage Capacity				
		<u>1,980,428</u>		1,980,428
Miscellaneous Overhead (44/04/2016 - 04/30/2017)(11/01/17 - 04/30/18)				
	\$ 13,170		\$ 13,170	
Times Summer Winter Sales	<u>90,536</u>		85,411	
Divided by Total Sales	<u>112,609</u>		<u>104,762</u>	
Miscellaneous Overhead		<u>10,589</u>		<u>10,737</u>
Total Anticipated Indirect Cost of Gas		<u>\$ 4,696,563</u>		\$ 2,095,304
Total Cost of Gas				
		<u>\$ 64,406,611</u>		<u>\$ 56,532,731</u>

Dated: November 7, 2016 October xx, 2017

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President

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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) (11/01/16 - 04/30/17)	<u>89,920,078</u>		84,893,215	
Direct Cost of Gas Rate		— 0.6640		\$ 0.6412 per therm
Demand Cost of Gas Rate	\$ 8,469,558	— 0.0942	\$ 9,975,490	\$ 0.1175
Commodity Cost of Gas Rate	55,346,544	— 0.6155	49,680,551	\$ 0.5852
Adjustment Cost of Gas Rate	<u>(4,106,050)</u>	<u>(0.0457)</u>	<u>(5,218,614)</u>	<u>(0.0615)</u>
Total Direct Cost of Gas Rate	\$ 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) (11/01/16 - 04/30/17)	<u>89,920,078</u>		84,893,215	
Indirect Cost of Gas		\$ — 0.0522		\$ 0.0247 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/17				\$ 0.6659 per Therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/16		\$ — 0.7162		

RESIDENTIAL COST OF GAS RATE - 11/01/17	COGwr	\$ 0.6659 /therm
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RESIDENTIAL COST OF GAS RATE - 11/01/2016	COGwr	\$ 0.7162 /therm
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Maximum (COG + 25%) \$ 0.8953 \$ 0.8324

C&I LOW WINTER USE COST OF GAS RATE - 11/01/17	COGwl	\$ 0.6774 /therm
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COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/2016	COGwl	\$ 0.7305 /therm
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Average Demand Cost of Gas Rate Effective 11/01/16 11/01/2017	\$ 0.0942	\$ 0.1175	Maximum (COG + 25%)	\$ 0.9134	\$ 0.8468
Times: Low Winter Use Ratio (Winter)	<u>1.1637</u>	1.0892			
Times: Correction Factor	<u>0.9898</u>	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	<u>(0.0457)</u>	(0.0615)			
Indirect Cost of Gas Rate	<u>0.0522</u>	0.0247			
Adjusted C&I Low Winter Use Cost of Gas Rate	\$ 0.7305	\$ 0.6774			

C&I HIGH WINTER USE COST OF GAS RATE - 11/01/17	COGwh	\$ 0.6647 /therm
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COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/2016	COGsh	\$ 0.7121 /therm
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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)	<u>0.9667</u>	0.9820			
Times: Correction Factor	<u>0.9898</u>	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	<u>(0.0457)</u>	(0.0615)	Maximum		
Indirect Cost of Gas Rate	<u>0.0522</u>	0.0247			
Adjusted C&I High Winter Use Cost of Gas Rate	\$ 0.7121	\$ 0.6647			

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

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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	\$ 283,609			\$ 2,145,938		
LNG	\$ 1,513,890			2,618,269		
TOTAL ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES	<u>1,797,499</u>			4,764,207		
ESTIMATED PERCENTAGE USED FOR PRESSURE SUPPORT PURPOSES	9.9%			9.9%		
ESTIMATED COST OF LIQUIDS USED FOR PRESSURE SUPPORT PURPOSES	<u>\$ 177,962</u>			<u>\$ 471,656</u>		
PROJECTED FIRM THROUGHPUT (THERMS):						
FIRM SALES	90,536,024	64.4%		85,410,999	62.2%	
FIRM TRANSPORTATION SUBJECT TO FTG	<u>50,086,696</u>	<u>35.6%</u>		<u>51,964,128</u>	<u>37.8%</u>	
TOTAL FIRM THROUGHPUT SUBJECT TO COST OF GAS CHARGE	440,622,721	100.0%		137,375,127	100.0%	
TRANSPORTATION SHARE OF SUPPLEMENTAL GAS SUPPLIES	35.6%	177,962 =	\$ 63,383	37.8% x	\$ 471,656 =	\$ 178,411
PRIOR (OVER) OR UNDER COLLECTION			<u>(33,912)</u>			<u>28,808</u>
NET AMOUNT TO COLLECT FROM (RETURNED TO) TRANSPORTATION CUSTOMERS			\$ 29,471			\$ 207,219
PROJECTED FIRM TRANSPORTATION THROUGHPUT			50,086,696			51,964,128
FIRM TRANSPORTATION COST OF GAS			\$0.0006			\$0.0040

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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 10/31/17 - sales and transportation	186,909,214	182,370,287 therms
Surcharge per therm	<u>\$0.0155</u>	<u>\$0.0163</u> per therm
<u>Total Environmental Surcharge</u>	\$0.0155	\$0.0163

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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	Estimated August 2016 - October 2016 Recovery	(\$292,028)
3	Estimated August 2016 - October 2016 Interest	(\$761)
4		
5	Estimated Balance November 1, 2016	(\$246,658)
6	Estimated November 2016 - December 2016 Interest	(\$791)
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

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 James M. Sweeney
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Local Distribution Adjustment Charge Calculation

			<u>Sales Customers</u>			<u>Transportation Customers</u>
<u>Residential Non Heating Rates - R-1</u>						
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		
LDAC		\$0.0553		\$0.0856		per therm

<u>Residential Heating Rates - R-3, R-4, R-6, R-7</u>						
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		
LDAC		\$0.0553		\$0.0856		per therm

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

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

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

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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)			
		164,344,340	164,344,430	Total Sendout - Therms Jul-2016 - Jun-2017
		160,948,361	160,948,361	Total Sendout - Therms Jul-2015 - Jun-2016
		3,396,069	3,396,069	Total Throughput - Therms Jul-2016 - Jun-2017
		2.1%	2.1%	Total Throughput - Therms Jul-2015 - Jun-2016
		2.5%	2.5%	Variance (Sendout - Throughput)
	Company Allowance Percentage 2015-16 2014-15	2.5%	2.1%	Variance / Total Sendout

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III DELIVERY TERMS AND CONDITIONS

**NHPUC NO. 8 - GAS
LIBERTY UTILITIES**

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

ATTACHMENT C

CAPACITY ALLOCATORS

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

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