

LIBERTY UTILITIES

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22 FIRM RATE SCHEDULES - EXCLUDING KEENE CUSTOMERS

	Rates Effective November 1, 2019 - April 30, 2020 Winter Period				Rates Effective July 1, 2019 - October 31, 2019 Summer Period			
	Delivery Charge	Cost of Gas Rate Page 92	LDAC Page 97	Total Rate	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate
Residential Non Heating - R-1								
Customer Charge per Month per Meter	\$ 15.20			\$ 15.20	\$ 15.20			\$ 15.20
All therms	\$ 0.3786	\$ 0.6203	\$ 0.0310	\$ 1.0299	\$ 0.3786	\$ 0.5556	\$ 0.0660	\$ 1.0002
Residential Heating - R-3								
Customer Charge per Month per Meter	\$ 15.20			\$ 15.20	\$ 15.20			\$ 15.20
Size of the first block	all therms				all therms			
Therms in the first block per month at	\$ 0.5569	\$ 0.6203	\$ 0.0310	\$ 1.2082	\$ 0.5569	\$ 0.5556	\$ 0.0660	\$ 1.1785
Residential Heating - R-4								
Customer Charge per Month per Meter	\$ 6.08			\$ 6.08	\$ 6.08			\$ 6.08
Size of the first block	all therms				all therms			
Therms in the first block per month at	\$ 0.2228	\$ 0.6203	\$ 0.0310	\$ 0.8741	\$ 0.2228	\$ 0.5556	\$ 0.0660	\$ 0.8444
Commercial/Industrial - G-41								
Customer Charge per Month per Meter	\$ 56.36			\$ 56.36	\$ 56.36			\$ 56.36
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.4621	\$ 0.6190	\$ 0.0478	\$ 1.1290	\$ 0.4621	\$ 0.5521	\$ 0.0757	\$ 1.0899
All therms over the first block per month at	\$ 0.3104	\$ 0.6190	\$ 0.0478	\$ 0.9773	\$ 0.3104	\$ 0.5521	\$ 0.0757	\$ 0.9382
Commercial/Industrial - G-42								
Customer Charge per Month per Meter	\$ 169.09			\$ 169.09	\$ 169.09			\$ 169.09
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.4202	\$ 0.6190	\$ 0.0478	\$ 1.0870	\$ 0.4202	\$ 0.5521	\$ 0.0757	\$ 1.0480
All therms over the first block per month at	\$ 0.2800	\$ 0.6190	\$ 0.0478	\$ 0.9468	\$ 0.2800	\$ 0.5521	\$ 0.0757	\$ 0.9078
Commercial/Industrial - G-43								
Customer Charge per Month per Meter	\$ 725.66			\$ 725.66	\$ 725.66			\$ 725.66
All therms over the first block per month at	\$ 0.2583	\$ 0.6190	\$ 0.0478	\$ 0.9251	\$ 0.1181	\$ 0.5521	\$ 0.0757	\$ 0.7459
Commercial/Industrial - G-51								
Customer Charge per Month per Meter	\$ 56.36			\$ 56.36	\$ 56.36			\$ 56.36
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.2785	\$ 0.6258	\$ 0.0478	\$ 0.9521	\$ 0.2785	\$ 0.5633	\$ 0.0757	\$ 0.9175
All therms over the first block per month at	\$ 0.1811	\$ 0.6258	\$ 0.0478	\$ 0.8547	\$ 0.1811	\$ 0.5633	\$ 0.0757	\$ 0.8201
Commercial/Industrial - G-52								
Customer Charge per Month per Meter	\$ 169.09			\$ 169.09	\$ 169.09			\$ 169.09
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.2392	\$ 0.6258	\$ 0.0478	\$ 0.9128	\$ 0.1733	\$ 0.5633	\$ 0.0757	\$ 0.8123
All therms over the first block per month at	\$ 0.1593	\$ 0.6258	\$ 0.0478	\$ 0.8329	\$ 0.0985	\$ 0.5633	\$ 0.0757	\$ 0.7375
Commercial/Industrial - G-53								
Customer Charge per Month per Meter	\$ 746.81			\$ 746.81	\$ 746.81			\$ 746.81
All therms over the first block per month at	\$ 0.1672	\$ 0.6258	\$ 0.0478	\$ 0.8408	\$ 0.0802	\$ 0.5633	\$ 0.0757	\$ 0.7192
Commercial/Industrial - G-54								
Customer Charge per Month per Meter	\$ 746.81			\$ 746.81	\$ 746.81			\$ 746.81
All therms over the first block per month at	\$ 0.0638	\$ 0.6258	\$ 0.0478	\$ 0.7374	\$ 0.0346	\$ 0.5633	\$ 0.0757	\$ 0.6736

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

	Rates effective November 1, 2019 - April 30, 2020 Winter Period				Rates Effective May 1, 2020 - October 31, 2020 Summer Period					
	Delivery Charge	Cost of Gas Rate Page 92	LDAC Page 97	Total Rate	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate		
<u>Residential Non Heating - R-5</u>										
Customer Charge per Month per Meter	\$	19.76		\$ 19.76	\$	19.76		\$ 19.76		
All therms	\$	0.4922	\$ 0.6203	\$ 0.0310	\$ 1.1435	\$	0.4922	\$ 0.4520	\$ 0.0310	\$ 0.9752
<u>Residential Heating - R-6</u>										
Customer Charge per Month per Meter	\$	19.76		\$ 19.76	\$	19.76		\$ 19.76		
All therms	\$	0.7240	\$ 0.6203	\$ 0.0310	\$ 1.3753	\$	0.7240	\$ 0.4520	\$ 0.0310	\$ 1.2070
<u>Residential Heating - R-7</u>										
Customer Charge per Month per Meter	\$	7.90		\$ 7.90	\$	7.90		\$ 7.90		
All therms	\$	0.2896	\$ 0.6203	\$ 0.0310	\$ 0.9409	\$	0.2896	\$ 0.4520	\$ 0.0310	\$ 0.7726
<u>Commercial/Industrial - G-44</u>										
Customer Charge per Month per Meter	\$	73.26		\$ 73.26	\$	73.2600		\$ 73.2600		
Size of the first block		100 therms								
Therms in the first block per month at	\$	0.6008	\$ 0.6190	\$ 0.0478	\$ 1.2676	\$	0.6008	\$ 0.4474	\$ 0.0478	\$ 1.0960
All therms over the first block per month at	\$	0.4035	\$ 0.6190	\$ 0.0478	\$ 1.0703					
<u>Commercial/Industrial - G-45</u>										
Customer Charge per Month per Meter	\$	219.82		\$ 219.82	\$	219.82		\$ 219.82		
Size of the first block		1000 therms				400 therms				
Therms in the first block per month at	\$	0.5463	\$ 0.6190	\$ 0.0478	\$ 1.2131	\$	0.5463	\$ 0.4474	\$ 0.0478	\$ 1.0415
All therms over the first block per month at	\$	0.3640	\$ 0.6190	\$ 0.0478	\$ 1.0308	\$	0.3639	\$ 0.4474	\$ 0.0478	\$ 0.8591
<u>Commercial/Industrial - G-46</u>										
Customer Charge per Month per Meter	\$	943.36		\$ 943.36	\$	943.36		\$ 943.36		
All therms over the first block per month at	\$	0.3358	\$ 0.6190	\$ 0.0478	\$ 1.0026	\$	0.1535	\$ 0.4474	\$ 0.0478	\$ 0.6487
<u>Commercial/Industrial - G-55</u>										
Customer Charge per Month per Meter	\$	73.26		\$ 73.26	\$	73.26		\$ 73.26		
Size of the first block		100 therms				100 therms				
Therms in the first block per month at	\$	0.3621	\$ 0.6258	\$ 0.0478	\$ 1.0357	\$	0.3621	\$ 0.4591	\$ 0.0478	\$ 0.8690
All therms over the first block per month at	\$	0.2354	\$ 0.6258	\$ 0.0478	\$ 0.9090	\$	0.2354	\$ 0.4591	\$ 0.0478	\$ 0.7423
<u>Commercial/Industrial - G-56</u>										
Customer Charge per Month per Meter	\$	219.82		\$ 219.82	\$	219.82		\$ 219.82		
Size of the first block		1000 therms				1000 therms				
Therms in the first block per month at	\$	0.3110	\$ 0.6258	\$ 0.0478	\$ 0.9846	\$	0.2253	\$ 0.4591	\$ 0.0478	\$ 0.7322
All therms over the first block per month at	\$	0.2071	\$ 0.6258	\$ 0.0478	\$ 0.8807	\$	0.1280	\$ 0.4591	\$ 0.0478	\$ 0.6349
<u>Commercial/Industrial - G-57</u>										
Customer Charge per Month per Meter	\$	970.84		\$ 970.84	\$	970.84		\$ 970.84		
All therms over the first block per month at	\$	0.2174	\$ 0.6258	\$ 0.0478	\$ 0.8910	\$	0.1043	\$ 0.4591	\$ 0.0478	\$ 0.6112
<u>Commercial/Industrial - G-58</u>										
Customer Charge per Month per Meter	\$	970.84		\$ 970.84	\$	970.84		\$ 970.84		
All therms over the first block per month at	\$	0.0829	\$ 0.6258	\$ 0.0478	\$ 0.7565	\$	0.0450	\$ 0.4591	\$ 0.0478	\$ 0.5519

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**26 ANTICIPATED SUMMER PERIOD COST OF GAS EXCLUDING KEENE CUSTOMERS
OR GAS LIGHTING**

PERIOD COVERED: SUMMER PERIOD, MAY 1, 2020 THROUGH OCTOBER 31, 2020
(REFER TO TEXT IN SECTION 16 COST OF GAS CLAUSE)

(Col 1)	(Col 2)	(Col 3)
ANTICIPATED DIRECT COST OF GAS		
Purchased Gas:		
Demand Costs:	\$ 4,548,346	
Supply Costs:	3,114,165	
Storage Gas:		
Demand, Capacity:	\$ -	
Commodity Costs:	-	
Produced Gas:	\$ 22,682	
Hedged Contract (Savings)/Loss	<u>\$ -</u>	
Unadjusted Anticipated Cost of Gas		\$ 7,685,193
Adjustments:		
Prior Period (Over)/Under Recovery (as of April 30, 2019)	\$ 1,885,446	
Interest	82,742	
Prior Period Adjustments	-	
Broker Revenues	-	
Refunds from Suppliers	-	
Fuel Financing	-	
Transportation CGA Revenues	-	
Interruptible Sales Margin	-	
Capacity Release Margin	-	
Hedging Costs	-	
Fixed Price Option Administrative Costs	-	
Total Adjustments		<u>1,968,188</u>
Total Anticipated Direct Cost of Gas		\$ 9,653,380
Anticipated Indirect Cost of Gas		
Working Capital:		
Total Unadjusted Anticipated Cost of Gas 05/01/19 - 10/31/19)	\$ 7,685,193	
Working Capital Rate - Lead Lag Days / 365	0.0391	
Prime Rate	5.25%	
Working Capital Percentage	0.205%	
Working Capital	\$ 15,777	
Plus: Working Capital Reconciliation (Acct 1163-1424)	<u>(18,982)</u>	
Total Working Capital Allowance		\$ (3,204)
Bad Debt:		
Total Unadjusted Anticipated Cost of Gas 05/01/19 - 10/31/19)	\$ 7,685,193	
Less: Refunds	-	
Plus: Total Working Capital	(3,204)	
Plus: Prior Period (Over)/Under Recovery	<u>1,885,446</u>	
Subtotal	\$ 9,567,434	
Bad Debt Percentage	<u>1.11%</u>	
Bad Debt Allowance	\$ 106,199	
Plus: Bad Debt Reconciliation (Acct 1163-1754)	<u>(280,167)</u>	
Total Bad Debt Allowance		(173,969)
Production and Storage Capacity		
Miscellaneous Overhead (05/01/19 - 10/31/19)	\$ 13,170	
Times Summer Sales	20,910	
Divided by Total Sales	<u>109,235</u>	
Miscellaneous Overhead		<u>2,521</u>
Total Anticipated Indirect Cost of Gas		\$ (174,652)
Total Cost of Gas		\$ 9,478,729

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

PERIOD COVERED: SUMMER PERIOD, MAY 1, 2020 THROUGH OCTOBER 31, 2020
(Refer to Text in Section 16 Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 9,653,380	
Projected Prorated Sales (05/01/19 - 10/31/19)	20,973,031	
Direct Cost of Gas Rate		\$ 0.4603 per therm
Demand Cost of Gas Rate	\$ 4,548,346	\$ 0.2169 per therm
Commodity Cost of Gas Rate	3,136,847	\$ 0.1496 per therm
Adjustment Cost of Gas Rate	1,968,188	\$ 0.0938 per therm
Total Direct Cost of Gas Rate	<u>\$ 9,653,380</u>	<u>\$ 0.4603 per therm</u>
Total Anticipated Indirect Cost of Gas	\$ (174,652)	
Projected Prorated Sales (05/01/19 - 10/31/19)	20,973,031	
Indirect Cost of Gas		\$ (0.0083) per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/20		\$ 0.4520 per therm
RESIDENTIAL COST OF GAS RATE - 05/01/2020		COGsr \$ 0.4520 /therm
	Maximum (COG + 25%)	\$ 0.5650
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/2020		COGsl \$ 0.4591 /therm

Average Demand Cost of Gas Rate Effective 05/01/19	\$ 0.2169		
Times: Low Winter Use Ratio (Summer)	1.0465	Maximum (COG + 25%)	\$ 0.5739
Times: Correction Factor	0.9867		
Adjusted Demand Cost of Gas Rate	<u>\$ 0.2240</u>		
Commodity Cost of Gas Rate	\$ 0.1496		
Adjustment Cost of Gas Rate	0.0938		
Indirect Cost of Gas Rate	(0.0083)		
Adjusted Com/Ind Low Winter Use Cost of Gas Rate	<u>\$ 0.4591</u>		

COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/2020		COGsh \$ 0.4474 /therm
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Average Demand Cost of Gas Rate Effective 05/01/19	\$ 0.2169		
Times: High Winter Use Ratio (Summer)	0.9918	Maximum (COG + 25%)	\$ 0.5593
Times: Correction Factor	0.9867		
Adjusted Demand Cost of Gas Rate	<u>\$ 0.2123</u>		
Commodity Cost of Gas Rate	\$ 0.1496		
Adjustment Cost of Gas Rate	0.0938		
Indirect Cost of Gas Rate	(0.0083)		
Adjusted Com/Ind High Winter Use Cost of Gas Rate	<u>\$ 0.4474</u>		

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29 CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE EXCLUDING KEENE CUSTOMERS

**CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2019 THROUGH APRIL 30, 2020
(Refer to Text in Section 17(A) Fixed Price Option Program)**

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 52,211,274	
Projected Prorated Sales (11/01/19 - 04/30/20)	87,788,508	
Direct Cost of Gas Rate		\$ 0.5947 per therm
Demand Cost of Gas Rate	\$ 11,060,200	\$ 0.1260 per therm
Commodity Cost of Gas Rate	40,875,472	\$ 0.4656 per therm
Adjustment Cost of Gas Rate	<u>275,601</u>	<u>\$ 0.0031 per therm</u>
Total Direct Cost of Gas Rate	\$ 52,211,274	\$ 0.5947 per therm
Total Anticipated Indirect Cost of Gas	\$ 2,251,330	
Projected Prorated Sales (11/01/19 - 04/30/20)	87,788,508	
Indirect Cost of Gas		\$ 0.0256 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/19)		\$ 0.6203
Calculation of FPO		
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/19)		\$ 0.6203
FPO Risk Premium		\$ 0.0200
TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (11/01/19)		\$ 0.6403
RESIDENTIAL COST OF GAS RATE - 11/01/19	COGwr	\$ 0.6403 /therm

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30 CALCULATION OF FIRM SALES WINTER PERIOD COST OF GAS RATE - EXCLUDING KEENE CUSTOMERS

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 52,211,274	
Projected Prorated Sales (11/01/19 - 04/30/20)	87,788,508	
Direct Cost of Gas Rate		\$ 0.5947 per therm
Demand Cost of Gas Rate	\$ 11,060,200	\$ 0.1260 per therm
Commodity Cost of Gas Rate	40,875,472	\$ 0.4656 per therm
Adjustment Cost of Gas Rate	<u>275,601</u>	<u>\$ 0.0031 per therm</u>
Total Direct Cost of Gas Rate	\$ 52,211,274	\$ 0.5947 per therm
Total Anticipated Indirect Cost of Gas	\$ 2,251,330	
Projected Prorated Sales (11/01/19 - 04/30/20)	87,788,508	
Indirect Cost of Gas		\$ 0.0256 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/17		\$ 0.6203 per therm
RESIDENTIAL COST OF GAS RATE - 11/01/19		COGwr \$ 0.6203 /therm

Maximum (COG + 25%) \$ 0.7754

C&I LOW WINTER USE COST OF GAS RATE - 11/01/19	COGwl	\$ 0.6258 /therm
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Average Demand Cost of Gas Rate Effective 11/01/19	\$ 0.1260		
Times: Low Winter Use Ratio (Winter)	1.0465	Maximum (COG + 25%)	\$ 0.7823
Times: Correction Factor	<u>0.9976</u>		
Adjusted Demand Cost of Gas Rate	\$ 0.1315		
Commodity Cost of Gas Rate	\$ 0.4656		
Adjustment Cost of Gas Rate	\$ 0.0031		
Indirect Cost of Gas Rate	\$ 0.0256		
Adjusted C&I Low Winter Use Cost of Gas Rate	\$ 0.6258		

C&I HIGH WINTER USE COST OF GAS RATE - 11/01/19	COGwh	\$ 0.6190 /therm
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Average Demand Cost of Gas Rate Effective 11/01/19	\$ 0.1260		
Times: High Winter Use Ratio (Winter)	0.9918	Maximum (COG + 25%)	\$ 0.7737
Times: Correction Factor	<u>0.9976</u>		
Adjusted Demand Cost of Gas Rate	\$ 0.1247		
Commodity Cost of Gas Rate	\$ 0.4656		
Adjustment Cost of Gas Rate	\$ 0.0031		
Indirect Cost of Gas Rate	\$ 0.0256		
Adjusted C&I High Winter Use Cost of Gas Rate	\$0.6190000		

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30.1 ANTICIPATED COST OF GAS - EXCLUDING KEENE CUSTOMERS

PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2019 THROUGH APRIL 30, 2020
(REFER TO TEXT ON IN SECTION 16 COST OF GAS CLAUSE)

(Col 1)	(Col 2)	(Col 3)
ANTICIPATED DIRECT COST OF GAS		
Purchased Gas:		
Demand Costs:	\$ 10,157,458	
Supply Costs:	34,260,417	
Storage Gas:		
Demand, Capacity:	\$ 902,742	
Commodity Costs:	4,281,375	
Produced Gas:	2,333,680	
Hedged Contract (Saving)/Loss	-	
Hedge Underground Storage Contract (Saving)/Loss	-	
Unadjusted Anticipated Cost of Gas		\$ 51,935,672
Adjustments:		
Prior Period (Over)/Under Recovery (as of 05/01/19)	\$ 1,912,210	
Interest	(81,952)	
Fuel Inventory Revenue Requirement	351,641	
Broker Revenues	(30,924)	
Refunds from Suppliers	-	
Fuel Financing	-	
Transportation CGA Revenues	(44,891)	
Interruptible Sales Margin	-	
Capacity Release and Off System Sales Margins	(1,875,483)	
Hedging Costs	-	
Fixed Price Option Administrative Costs	45,000	
Total Adjustments	275,601	
Total Anticipated Direct Cost of Gas		\$ 52,211,274
Anticipated Indirect Cost of Gas		
Working Capital:		
Total Unadjusted Anticipated Cost of Gas 11/01/19 - 04/30/20	\$ 51,935,672	
Working Capital Rate: Lead Lag Days / 365	0.0391	
Prime Rate	5.25%	
Working Capital Percentage	0.205%	
Working Capital	\$ 106,622	
Plus: Working Capital Reconciliation (Acct 142.20)	(42,277)	
Total Working Capital Allowance		64,345
Bad Debt:		
Total Unadjusted Anticipated Cost of Gas 11/01/19 - 04/30/20	\$ 51,935,672	
Less: Refunds	-	
Plus: Total Working Capital	64,345	
Plus: Prior Period (Over)/Under Recovery	1,912,210	
Subtotal	\$ 53,912,228	
Bad Debt Percentage	1.11%	
Bad Debt Allowance	\$ 598,426	
Plus: Bad Debt Reconciliation (Acct 175.52)	(402,518)	
Total Bad Debt Allowance		\$ 195,908
Production and Storage Capacity		\$ 1,980,428
Miscellaneous Overhead 11/01/19 - 04/30/20	\$ 13,170	
Times Winter Sales	88,326	
Divided by Total Sales	109,235	
Miscellaneous Overhead		10,649
Total Anticipated Indirect Cost of Gas		\$ 2,251,330
Total Cost of Gas		\$ 54,462,603

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ISSUED BY: /s/Susan L. Fleck

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Susan L. Fleck
TITLE: President

32. CALCULATION OF FIRM TRANSPORTATION COST OF GAS RATE

II. RATE SCHEDULES

Calculation of Firm Transportation Cost of Gas Rate
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2019 THROUGH APRIL 30, 2020
(Refer to text in Section 16(Q) Firm Transportation Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)	(Col 4)
ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES:			
PROPANE	\$ 1,409,746		
LNG	<u>923,934</u>		
TOTAL ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES	2,333,680		
ESTIMATED PERCENTAGE USED FOR PRESSURE SUPPORT PURPOSES	8.7%		
ESTIMATED COST OF LIQUIDS USED FOR PRESSURE SUPPORT PURPOSES	<u>\$ 203,030</u>		
PROJECTED FIRM THROUGHPUT (THERMS):			
FIRM SALES	88,325,512	63.5%	
FIRM TRANSPORTATION SUBJECT TO FTG	<u>50,711,358</u>	<u>36.5%</u>	
TOTAL FIRM THROUGHPUT SUBJECT TO COST OF GAS CHARGE	139,036,871	100.0%	
TRANSPORTATION SHARE OF SUPPLEMENTAL GAS SUPPLIES	36.5%	x	\$ 203,030 = \$ 74,052
PRIOR (OVER) OR UNDER COLLECTION			<u>(29,161)</u>
NET AMOUNT TO COLLECT FROM (RETURNED TO) TRANSPORTATION CUSTOMERS			\$ 44,891
PROJECTED FIRM TRANSPORTATION THROUGHPUT			50,711,358
FIRM TRANSPORTATION COST OF GAS			\$ 0.0009

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33. ENVIRONMENTAL SURCHARGE - MANUFACTURED GAS PLANTS

Environmental Surcharge - Manufactured Gas Plants

Manufactured Gas Plants

Required annual Environmental increase	\$	2,860,522
DG 10-17 Base Rate Revision Collections	\$	-
Environmental Subtotal	\$	2,860,522
Overall Annual Net Increase to Rates	\$	2,860,522
Estimated weather normalized firm therms billed for the twelve months ended 10/31/20 - sales and transportation		187,178,686 therms
Surcharge per therm	\$	0.0153 per therm
<u>Total Environmental Surcharge</u>	<u>\$</u>	<u>0.0153</u>

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TITLE: President

34 RATE CASE EXPENSE AND RECOUPMENT FACTOR CALCULATION

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, 2019 - October 31, 2020

Rate Case Expense Remaining from Docket No. DG 17-048	\$257,626
Recoupment Remaining from Docket No. DG 17-048	<u>\$244,581</u>
July 1, 2019 Balance	\$502,207
Plus Estimated Interest from July 2019 through October 2019	\$7,671
Minus Estimated Recoveries from July 2019 through October 2019	<u>(\$206,666)</u>
Total Estimated Remaining Recovery As of November 1, 2019	\$303,212
Estimated November 2019 - October 2020 Interest	<u>\$6,013</u>
Total Remaining Recovery	\$309,225
Estimated November 2019 - October 2020 Sales (therms)	187,178,686
RCE & Recoupment rate per therm November 2019 - October 2020	\$0.0017

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TITLE: President

35 LOCAL DISTRIBUTION ADJUSTMENT CLAUSE CALCULATION

Local Delivery Adjustment Clause Calculation

		Sales <u>Customers</u>	Transportation <u>Customers</u>
<u>Residential Non Heating Rates - R-1, R-5</u>			
Energy Efficiency Charge	\$ 0.0640		
Demand Side Management Charge	0.0000		
Conservation Charge (CCx)	<u>0.0000</u>	\$ 0.0640	
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	<u>0.0153</u>		
Environmental Surcharge (ES)		0.0153	
Revenue Decoupling Adjustment Factor (RDAF)		(0.0623)	
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0001	
Rate Case Expense Factor (RCEF)		0.0017	
Residential Low Income Assistance Program (RLIAP)		<u>0.0123</u>	
LDAC		\$ 0.0310	per therm
<u>Residential Heating Rates - R-3, R-4, R-6, R-7</u>			
Energy Efficiency Charge	\$ 0.0640		
Demand Side Management Charge	0.0000		
Conservation Charge (CCx)	<u>0.0000</u>	\$ 0.0640	
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	<u>0.0153</u>		
Environmental Surcharge (ES)		0.0153	
Revenue Decoupling Adjustment Factor (RDAF)		(0.0623)	
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0001	
Rate Case Expense Factor (RCEF)		0.0017	
Residential Low Income Assistance Program (RLIAP)		<u>0.0123</u>	
LDAC		\$ 0.0310	per therm
<u>Commercial/Industrial Low Annual Use Rates - G-41, G-51, G-44, G-55</u>			
Energy Efficiency Charge	\$0.0426		
Demand Side Management Charge	0.0000		
Conservation Charge (CCx)	<u>0.0000</u>	\$ 0.0426	\$ 0.0426
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	<u>0.0153</u>		
Environmental Surcharge (ES)		0.0153	0.0153
Revenue Decoupling Adjustment Factor (RDAF)		(0.0241)	(0.0241)
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0001	0.0001
Rate Case Expense Factor (RCEF)		0.0017	0.0017
Residential Low Income Assistance Program (RLIAP)		<u>0.0123</u>	<u>0.0123</u>
LDAC		\$ 0.0478	\$ 0.0478 per therm
<u>Commercial/Industrial Medium Annual Use Rates - G-42, G-52, G-45, G-56</u>			
Energy Efficiency Charge	\$0.0426		
Demand Side Management Charge	0.0000		
Conservation Charge (CCx)	<u>0.0000</u>	\$0.0426	\$0.0426
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	<u>0.0153</u>		
Environmental Surcharge (ES)		0.0153	0.0153
Revenue Decoupling Adjustment Factor (RDAF)		(0.0241)	(0.0241)
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0001	0.0001
Rate Case Expense Factor (RCEF)		0.0017	0.0017
Residential Low Income Assistance Program (RLIAP)		<u>0.0123</u>	<u>0.0123</u>
LDAC		\$ 0.0478	\$ 0.0478 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	\$ 0.0426		
Demand Side Management Charge	0.0000		
Conservation Charge (CCx)	<u>0.0000</u>	\$0.0426	\$0.0426
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	<u>0.0153</u>		
Environmental Surcharge (ES)		0.0153	0.0153
Revenue Decoupling Adjustment Factor (RDAF)		(0.0241)	(0.0241)
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0001	0.0001
Rate Case Expense Factor (RCEF)		0.0017	0.0017
Residential Low Income Assistance Program (RLIAP)		<u>0.0123</u>	<u>0.0123</u>
LDAC		\$ 0.0478	\$ 0.0478 per therm

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Susan L. Fleck
TITLE: President

2 ATTACHMENT B
Schedule of Administrative Fees and Charges

I. Supplier Balancing Charge:	\$	0.2100	per MMBtu of Daily Imbalance Volumes")
II. Capacity Mitigation Fee		15%	of the Proceeds from the Marketing of
III. Peaking Demand Charge	\$	18.12	MMBTU of Peak MDQ
IV. Company Allowance Calculation (per Schedule 25)			
		181,100,282	Total Sendout - Therms Jul -2018 - Jun-2019
		<u>177,619,709</u>	Total Throughput - Therms Jul-2018 - Jun-2019
		3,480,573	Variance (Sendout - Throughput)
Company Allowance Percentage 2019-20		1.9%	Variance / Total Sendout

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**3 ATTACHMENT C
Capacity Allocators**

Rate Class		Pipeline	Storage	Peaking	Total
G-41	Low Annual /High Winter Use	46.5%	17.2%	36.3%	100.0%
G-51	Low Annual /Low Winter Use	60.3%	12.8%	26.9%	100.0%
G-42	Medium Annual / High Winter	46.5%	17.2%	36.3%	100.0%
G-52	High Annual / Low Winter Use	60.3%	12.8%	26.9%	100.0%
G-43	High Annual / High Winter	46.5%	17.2%	36.3%	100.0%
G-53	High Annual / Load Factor < 90%	60.3%	12.8%	26.9%	100.0%
G-54	High Annual / Load Factor < 90%	60.3%	12.8%	26.9%	100.0%

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