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ISSUED BY: /s/Susan L. Fleck

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Susan L. Fleck
TITLE: President

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22 FIRM RATE SCHEDULES - EXCLUDING KEENE CUSTOMERS

**II RATE SCHEDULES
FIRM RATE SCHEDULES**

	Rates Effective November 1, 2020 - April 30, 2021				Rates Effective September 1, 2020 - October 31, 2020			
	Winter Period				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	\$ 15.50			\$ 15.50	\$ 15.50			\$ 15.50
All therms	\$ 0.3860	\$ 0.5571	\$ 0.0589	\$ 1.0020	\$ 0.3860	\$ 0.4914	\$ 0.0310	\$ 0.9084
Residential Heating - R-3								
Customer Charge per Month per Meter	\$ 15.50			\$ 15.50	\$ 15.50			\$ 15.50
Size of the first block	all therms				all therms			
Therms in the first block per month at	\$ 0.5678	\$ 0.5571	\$ 0.0589	\$ 1.1838	\$ 0.5678	\$ 0.4914	\$ 0.0310	\$ 1.0902
Residential Heating - R-4								
Customer Charge per Month per Meter	\$ 8.53			\$ 8.53	\$ 15.50			\$ 15.50
Size of the first block	all therms				all therms			
Therms in the first block per month at	\$ 0.3123	\$ 0.3064	\$ 0.0589	\$ 0.6776	\$ 0.5678	\$ 0.4914	\$ 0.0310	\$ 1.0902
Commercial/Industrial - G-41								
Customer Charge per Month per Meter	\$ 57.46			\$ 57.46	\$ 57.46			\$ 57.46
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.4711	\$ 0.5552	\$ 0.0555	\$ 1.0818	\$ 0.4711	\$ 0.4868	\$ 0.0478	\$ 1.0057
All therms over the first block per month at	\$ 0.3165	\$ 0.5552	\$ 0.0555	\$ 0.9272	\$ 0.3165	\$ 0.4868	\$ 0.0478	\$ 0.8511
Commercial/Industrial - G-42								
Customer Charge per Month per Meter	\$ 172.39			\$ 172.39	\$ 172.39			\$ 172.39
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.4284	\$ 0.5552	\$ 0.0555	\$ 1.0391	\$ 0.4284	\$ 0.4868	\$ 0.0478	\$ 0.9630
All therms over the first block per month at	\$ 0.2855	\$ 0.5552	\$ 0.0555	\$ 0.8962	\$ 0.2855	\$ 0.4868	\$ 0.0478	\$ 0.8201
Commercial/Industrial - G-43								
Customer Charge per Month per Meter	\$ 739.83			\$ 739.83	\$ 739.83			\$ 739.83
All therms over the first block per month at	\$ 0.2633	\$ 0.5552	\$ 0.0555	\$ 0.8740	\$ 0.1204	\$ 0.4868	\$ 0.0478	\$ 0.6550
Commercial/Industrial - G-51								
Customer Charge per Month per Meter	\$ 57.46			\$ 57.46	\$ 57.46			\$ 57.46
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.2839	\$ 0.5660	\$ 0.0555	\$ 0.9054	\$ 0.2839	\$ 0.4985	\$ 0.0478	\$ 0.8302
All therms over the first block per month at	\$ 0.1846	\$ 0.5660	\$ 0.0555	\$ 0.8061	\$ 0.1846	\$ 0.4985	\$ 0.0478	\$ 0.7309
Commercial/Industrial - G-52								
Customer Charge per Month per Meter	\$ 172.39			\$ 172.39	\$ 172.39			\$ 172.39
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.2439	\$ 0.5660	\$ 0.0555	\$ 0.8654	\$ 0.1767	\$ 0.4985	\$ 0.0478	\$ 0.7230
All therms over the first block per month at	\$ 0.1624	\$ 0.5660	\$ 0.0555	\$ 0.7839	\$ 0.1004	\$ 0.4985	\$ 0.0478	\$ 0.6467
Commercial/Industrial - G-53								
Customer Charge per Month per Meter	\$ 761.39			\$ 761.39	\$ 761.39			\$ 761.39
All therms over the first block per month at	\$ 0.1705	\$ 0.5660	\$ 0.0555	\$ 0.7920	\$ 0.0818	\$ 0.4985	\$ 0.0478	\$ 0.6281
Commercial/Industrial - G-54								
Customer Charge per Month per Meter	\$ 761.39			\$ 761.39	\$ 761.39			\$ 761.39
All therms over the first block per month at	\$ 0.0650	\$ 0.5660	\$ 0.0555	\$ 0.6865	\$ 0.0353	\$ 0.4985	\$ 0.0478	\$ 0.5816

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Susan L. Fleck
President

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

**II RATE SCHEDULES
FIRM RATE SCHEDULES**

	Rates Effective November 1, 2020 - April 30, 2021 Winter Period				Rates Effective September 1, 2020 - October 31, 2020 Summer Period			
	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate
Residential Non Heating - R-5								
Customer Charge per Month per Meter	\$ 20.15			\$ 20.15	\$ 20.15			\$ 20.15
All Therms	\$ 0.5018	\$ 0.5571	\$ 0.0589	\$ 1.1178	\$ 0.5018	\$ 0.4914	\$ 0.0310	\$ 1.0242
Residential Heating - R-6								
Customer Charge per Month per Meter	\$ 20.15			\$ 20.15	\$ 20.15			\$ 20.15
Therms in the first block per month at	\$ 0.7381	\$ 0.5571	\$ 0.0589	\$ 1.3541	\$ 0.7381	\$ 0.4914	\$ 0.0310	\$ 1.2605
Residential Heating - R-7								
Customer Charge per Month per Meter	\$ 11.08			\$ 11.08	\$ 8.06			\$ 8.06
Therms in the first block per month at	\$ 0.4060	\$ 0.3064	\$ 0.0589	\$ 0.7713	\$ 0.2953	\$ 0.4914	\$ 0.0310	\$ 0.8177
Commercial/Industrial - G-44								
Customer Charge per Month per Meter	\$ 74.69			\$ 74.69	\$ 74.69			\$ 74.69
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.6126	\$ 0.5552	\$ 0.0555	\$ 1.2233	\$ 0.6126	\$ 0.4868	\$ 0.0478	\$ 1.1472
All therms over the first block per month at	\$ 0.4114	\$ 0.5552	\$ 0.0555	\$ 1.0221	\$ 0.4114	\$ 0.4868	\$ 0.0478	\$ 0.9460
Commercial/Industrial - G-45								
Customer Charge per Month per Meter	\$ 224.11			\$ 224.11	\$ 224.11			\$ 224.11
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.5569	\$ 0.5552	\$ 0.0555	\$ 1.1676	\$ 0.5569	\$ 0.4868	\$ 0.0478	\$ 1.0916
All therms over the first block per month at	\$ 0.3711	\$ 0.5552	\$ 0.0555	\$ 0.9818	\$ 0.3711	\$ 0.4868	\$ 0.0478	\$ 0.9057
Commercial/Industrial - G-46								
Customer Charge per Month per Meter	\$ 961.78			\$ 961.78	\$ 961.78			\$ 961.78
All therms over the first block per month at	\$ 0.3423	\$ 0.5552	\$ 0.0555	\$ 0.9530	\$ 0.1565	\$ 0.4868	\$ 0.0478	\$ 0.6912
Commercial/Industrial - G-55								
Customer Charge per Month per Meter	\$ 74.69			\$ 74.69	\$ 74.69			\$ 74.69
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.3691	\$ 0.5660	\$ 0.0555	\$ 0.9906	\$ 0.3691	\$ 0.4985	\$ 0.0478	\$ 0.9155
All therms over the first block per month at	\$ 0.2400	\$ 0.5660	\$ 0.0555	\$ 0.8615	\$ 0.2400	\$ 0.4985	\$ 0.0478	\$ 0.7864
Commercial/Industrial - G-56								
Customer Charge per Month per Meter	\$ 224.11			\$ 224.11	\$ 224.11			\$ 224.11
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.3171	\$ 0.5660	\$ 0.0555	\$ 0.9386	\$ 0.2297	\$ 0.4985	\$ 0.0478	\$ 0.7760
All therms over the first block per month at	\$ 0.2111	\$ 0.5660	\$ 0.0555	\$ 0.8326	\$ 0.1304	\$ 0.4985	\$ 0.0478	\$ 0.6767
Commercial/Industrial - G-57								
Customer Charge per Month per Meter	\$ 989.80			\$ 989.80	\$ 989.80			\$ 989.80
All therms over the first block per month at	\$ 0.2216	\$ 0.5660	\$ 0.0555	\$ 0.8431	\$ 0.1063	\$ 0.4985	\$ 0.0478	\$ 0.6526
Commercial/Industrial - G-58								
Customer Charge per Month per Meter	\$ 989.80			\$ 989.80	\$ 989.80			\$ 989.80
All therms over the first block per month at	\$ 0.0846	\$ 0.5660	\$ 0.0555	\$ 0.7061	\$ 0.0459	\$ 0.4985	\$ 0.0478	\$ 0.5922

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

Anticipated Cost of Gas

PERIOD COVERED: SUMMER PERIOD, MAY 1, 2021 THROUGH OCTOBER 31, 2021
(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:	\$ 2,868,280	
Supply Costs:	4,387,278	
Storage Gas:		
Demand, Capacity:	\$ -	
Commodity Costs:	-	
Produced Gas:	\$ 29,014	
Hedged Contract (Savings)/Loss	<u>\$ -</u>	
Unadjusted Anticipated Cost of Gas		\$ 7,284,571
Adjustments:		
Prior Period (Over)/Under Recovery (as of April 30, 2019)	\$ 105,886	
Interest	(3,492)	
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>102,394</u>
Total Anticipated Direct Cost of Gas		\$ 7,386,965
Anticipated Indirect Cost of Gas		
Working Capital:		
Total Unadjusted Anticipated Cost of Gas 05/01/19 - 10/31/19)	\$ 7,284,571	
Working Capital Rate - Lead Lag Days / 365	0.0391	
Prime Rate	3.25%	
Working Capital Percentage	0.127%	
Working Capital	\$ 9,258	
Plus: Working Capital Reconciliation (Acct 1163-1424)	<u>(13,709)</u>	
Total Working Capital Allowance		\$ (4,451)
Bad Debt:		
Total Unadjusted Anticipated Cost of Gas 05/01/19 - 10/31/19)	\$ 7,284,571	
Less: Refunds	-	
Plus: Total Working Capital	(4,451)	
Plus: Prior Period (Over)/Under Recovery	<u>105,886</u>	
Subtotal	\$ 7,386,006	
Bad Debt Percentage	<u>1.11%</u>	
Bad Debt Allowance	\$ 81,985	
Plus: Bad Debt Reconciliation (Acct 1163-1754)	<u>(326,326)</u>	
Total Bad Debt Allowance		(244,341)
Production and Storage Capacity		
Miscellaneous Overhead (05/01/19 - 10/31/19)	\$ 13,170	
Times Summer Sales	22,004	
Divided by Total Sales	<u>111,369</u>	
Miscellaneous Overhead		<u>2,602</u>
Total Anticipated Indirect Cost of Gas		\$ (246,190)
Total Cost of Gas		\$ 7,140,775

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**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, 2021 THROUGH OCTOBER 31, 2021
(Refer to Text in Section 16 Cost of Gas Clause)**

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 7,386,965	
Projected Prorated Sales (05/01/20 - 10/31/20)	22,681,422	
Direct Cost of Gas Rate		\$ 0.3257 per therm
Demand Cost of Gas Rate	\$ 2,868,280	\$ 0.1265 per therm
Commodity Cost of Gas Rate	4,416,292	\$ 0.1947 per therm
Adjustment Cost of Gas Rate	102,394	\$ 0.0045 per therm
Total Direct Cost of Gas Rate	\$ 7,386,965	\$ 0.3257 per therm
Total Anticipated Indirect Cost of Gas	\$ (246,190)	
Projected Prorated Sales (05/01/20 - 10/31/20)	22,681,422	
Indirect Cost of Gas		\$ (0.0109) per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/21		\$ 0.3148 per therm
RESIDENTIAL COST OF GAS RATE - 05/01/2021		COGsr \$ 0.3148 /therm
	Maximum (COG + 25%)	\$ 0.3935
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/2021		COGsl \$ 0.3199 /therm

Average Demand Cost of Gas Rate Effective 05/01/20	\$ 0.1265		
Times: Low Winter Use Ratio (Summer)	1.0620	Maximum (COG + 25%)	\$ 0.3999
Times: Correction Factor	0.9798		
Adjusted Demand Cost of Gas Rate	\$ 0.1316		
Commodity Cost of Gas Rate	\$ 0.1947		
Adjustment Cost of Gas Rate	0.0045		
Indirect Cost of Gas Rate	(0.0109)		
Adjusted Com/Ind Low Winter Use Cost of Gas Rate	\$ 0.3199		

COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/2021		COGsh \$ 0.3109 /therm
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Average Demand Cost of Gas Rate Effective 05/01/20	\$ 0.1265		
Times: High Winter Use Ratio (Summer)	0.9890	Maximum (COG + 25%)	\$ 0.3886
Times: Correction Factor	0.9798		
Adjusted Demand Cost of Gas Rate	\$ 0.1226		
Commodity Cost of Gas Rate	\$ 0.1947		
Adjustment Cost of Gas Rate	0.0045		
Indirect Cost of Gas Rate	(0.0109)		
Adjusted Com/Ind High Winter Use Cost of Gas Rate	\$ 0.3109		

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President

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

II. RATE SCHEDULES
CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2020 THROUGH APRIL 30, 2021
(Refer to Text in Section 17(A) Fixed Price Option Program)

(Col 1)	(Col 2)	(Col 3)
1 Total Anticipated Direct Cost of Gas	\$ 46,922,854	
2 Projected Prorated Sales (11/01/20 - 04/30/21)	88,213,529	
3 Direct Cost of Gas Rate		\$ 0.5319 per therm
4 Demand Cost of Gas Rate	\$ 12,978,688	\$ 0.1471 per therm
5 Commodity Cost of Gas Rate	32,931,719	\$ 0.3733 per therm
6 Adjustment Cost of Gas Rate	<u>1,012,447</u>	<u>\$ 0.0115 per therm</u>
7 Total Direct Cost of Gas Rate	\$ 46,922,854	\$ 0.5319 per therm
8 Total Anticipated Indirect Cost of Gas	\$ 2,220,114	
9 Projected Prorated Sales (11/01/20 - 04/30/21)	88,213,529	
10 Indirect Cost of Gas		\$ 0.0252 per therm
11 TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/19)		\$ 0.5571
12 <u>Calculation of FPO Excluding Low Income - Rate Code R-3</u>		
13 TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/19)		\$ 0.5571
14 FPO Risk Premium		\$ 0.0200
15 TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (11/01/19)		\$ 0.5771
16 RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - (R-3) 11/01/20	COGwr	\$ 0.5771 /therm
17 <u>Calculation of FPO for Gas Assistance Program - Rate Code R-4</u>		
18 TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/20) FPO (Line 13 * 0.55)		\$ 0.3064
19 FPO Risk Premium (Line 14 * 0.55)		\$ 0.0110
20 TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (11/01/19) (Line 15 * 0.55)		\$ 0.3174
21 RESIDENTIAL COST OF GAS RATE - LOW INCOME - (R-4) 11/01/20	COGwr	\$ 0.3174 /therm

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

**CALCULATION OF FIRM SALES COST OF GAS RATE
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2020 THROUGH APRIL 30, 2021
(Refer to Text in Section 16 Cost of Gas Clause)**

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 46,922,854	
Projected Prorated Sales (11/01/2020 - 04/30/21)	88,213,529	
Direct Cost of Gas Rate		\$ 0.5319 per therm
Demand Cost of Gas Rate	\$ 12,978,688	\$ 0.1471 per therm
Commodity Cost of Gas Rate	32,931,719	\$ 0.3733 per therm
Adjustment Cost of Gas Rate	<u>1,012,447</u>	<u>\$ 0.0115 per therm</u>
Total Direct Cost of Gas Rate	\$ 46,922,854	\$ 0.5319 per therm
Total Anticipated Indirect Cost of Gas	\$ 2,220,114	
Projected Prorated Sales (11/01/20 - 04/30/21)	88,213,529	
Indirect Cost of Gas		\$ 0.0252 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/20		\$ 0.5571 per therm

RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 11/01/20	COGwr	\$ 0.5571 /therm
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Maximum (COG + 25%) \$ 0.6964

GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 - 11/01/20	COGwr	\$ 0.3064 /therm
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Maximum (COG + 25%) \$ 0.3830

C&I LOW WINTER USE COST OF GAS RATE - 11/01/20	COGwl	\$ 0.5660 /therm
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Average Demand Cost of Gas Rate Effective 11/01/20	\$ 0.1471		
Times: Low Winter Use Ratio (Winter)	1.0620	Maximum (COG + 25%)	\$ 0.7075
Times: Correction Factor	<u>0.9984</u>		
Adjusted Demand Cost of Gas Rate	<u>\$ 0.1560</u>		
Commodity Cost of Gas Rate	\$ 0.3733		
Adjustment Cost of Gas Rate	\$ 0.0115		
Indirect Cost of Gas Rate	<u>\$ 0.0252</u>		
Adjusted C&I Low Winter Use Cost of Gas Rate	<u>\$ 0.5660</u>		

C&I HIGH WINTER USE COST OF GAS RATE - 11/01/20	COGwh	\$ 0.5552 /therm
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Average Demand Cost of Gas Rate Effective 11/01/20	\$ 0.1471		
Times: High Winter Use Ratio (Winter)	0.9890	Maximum (COG + 25%)	\$ 0.6940
Times: Correction Factor	<u>0.9984</u>		
Adjusted Demand Cost of Gas Rate	<u>\$ 0.1452</u>		
Commodity Cost of Gas Rate	\$ 0.3733		
Adjustment Cost of Gas Rate	\$ 0.0115		
Indirect Cost of Gas Rate	<u>\$ 0.0252</u>		
Adjusted C&I High Winter Use Cost of Gas Rate	<u>\$ 0.5552000</u>		

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30.1 ANTICIPATED COST OF GAS - EXCLUDING KEENE CUSTOMERS

Anticipated Cost of Gas		
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2020 THROUGH APRIL 30, 2021 (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:	\$ 12,022,922	
Supply Costs:	28,276,980	
Storage Gas:		
Demand, Capacity:	\$ 955,766	
Commodity Costs:	3,064,149	
Produced Gas:	1,590,589	
Hedged Contract (Saving)/Loss	-	
Hedge Underground Storage Contract (Saving)/Loss	-	
Unadjusted Anticipated Cost of Gas		\$ 45,910,407
Adjustments:		
Prior Period (Over)/Under Recovery (as of 05/01/20)	\$ 2,227,421	
Interest	72,812	
Fuel Inventory Revenue Requirement	441,037	
Broker Revenues	(32,725)	
Refunds from Suppliers	-	
Fuel Financing	-	
Transportation CGA Revenues	(4,516)	
Interruptible Sales Margin	-	
Capacity Release and Off System Sales Margins	(1,736,581)	
Hedging Costs	-	
Fixed Price Option Administrative Costs	45,000	
Total Adjustments		<u>1,012,447</u>
Total Anticipated Direct Cost of Gas		\$ 46,922,854
Anticipated Indirect Cost of Gas		
Working Capital:		
Total Unadjusted Anticipated Cost of Gas 11/01/20 - 04/30/21	\$ 45,910,407	
Working Capital Rate: Lead Lag Days / 365	0.0391	
Prime Rate	3.25%	
Working Capital Percentage	<u>0.127%</u>	
Working Capital	\$ 58,347	
Plus: Working Capital Reconciliation (Acct 142.20)	<u>(66,837)</u>	
Total Working Capital Allowance		(8,490)
Bad Debt:		
Total Unadjusted Anticipated Cost of Gas 11/01/20 - 04/30/21	\$ 45,910,407	
Less: Refunds	-	
Plus: Total Working Capital	(8,490)	
Plus: Prior Period (Over)/Under Recovery	<u>2,227,421</u>	
Subtotal	\$ 48,129,338	
Bad Debt Percentage	<u>1.11%</u>	
Bad Debt Allowance	\$ 534,236	
Plus: Bad Debt Reconciliation (Acct 175.52)	<u>(296,628)</u>	
Total Bad Debt Allowance		\$ 237,608
Production and Storage Capacity		
Miscellaneous Overhead 11/01/20 - 04/30/21	\$ 13,170	
Times Winter Sales	89,365	
Divided by Total Sales	<u>111,369</u>	
Miscellaneous Overhead		<u>10,568</u>
Total Anticipated Indirect Cost of Gas		\$ 2,220,114
Total Cost of Gas		<u>\$ 49,142,968</u>

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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, 2020 THROUGH APRIL 30, 2021
(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	\$ 568,511		
LNG	<u>1,022,078</u>		
TOTAL ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES	1,590,589		
ESTIMATED PERCENTAGE USED FOR PRESSURE SUPPORT PURPOSES	8.7%		
ESTIMATED COST OF LIQUIDS USED FOR PRESSURE SUPPORT PURPOSES	<u>\$ 138,381</u>		
PROJECTED FIRM THROUGHPUT (THERMS):			
FIRM SALES	89,364,968	67.8%	
FIRM TRANSPORTATION SUBJECT TO FTSG	<u>42,456,275</u>	<u>32.2%</u>	
TOTAL FIRM THROUGHPUT SUBJECT TO COST OF GAS CHARGE	131,821,243	100.0%	
TRANSPORTATION SHARE OF SUPPLEMENTAL GAS SUPPLIES	32.2%	x	\$ 138,381 = \$ 44,569
PRIOR (OVER) OR UNDER COLLECTION			<u>(40,053)</u>
NET AMOUNT TO COLLECT FROM (RETURNED TO) TRANSPORTATION CUSTOMERS			\$ 4,516
PROJECTED FIRM TRANSPORTATION THROUGHPUT			42,456,275
FIRM TRANSPORTATION COST OF GAS			\$ 0.0001

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33. ENVIRONMENTAL SURCHARGE - MANUFACTURED GAS PLANTS

Environmental Surcharge - Manufactured Gas Plants

Manufactured Gas Plants

Required Annual Environmental Increase	\$2,864,179
First one-third of prior period under recoveries (through June 2019)	\$341,389
July 2019 - June 2020 recovery difference between actual and estimate	\$338,564
Environmental Subtotal	\$3,544,132
Overall Annual Net Increase to Rates	\$3,544,132
Estimated weather normalized firm therms billed for the twelve months ended 10/31/20 - sales and transportation	179,574,679 therms
Surcharge per therm	<u>\$0.0197</u> per therm
<u>Total Environmental Surcharge</u>	<u><u>\$0.0197</u></u>

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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, 2020 - October 31, 2021

1	Rate Case Expense Remaining from Docket No. DG 17-048	\$87,069
2	Recoupment Remaining from Docket No. DG 17-048	<u>\$0</u>
3	July 1, 2020 Balance	\$87,069
4	Plus Estimated Interest from July 2020 through October 2020	\$745
5	Minus Estimated Recoveries from July 2020 through October 2020	<u>(\$43,733)</u>
6	Total Estimated Remaining Recovery As of November 1, 2020	\$44,081
7	Estimated November 2019 - October 2020 Interest	<u>\$538</u>
8	Total Remaining Recovery	\$44,619
9	Estimated November 2020 - October 2021 Sales (therms)	179,574,679
10	RCE & Recoupment rate per therm November 2020 - October 2021	\$0.0002

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35 LOCAL DISTRIBUTION ADJUSTMENT CLAUSE CALCULATION

Local Delivery Adjustment Charge Calculation

		Sales <u>Customers</u>	Transportation <u>Customers</u>
<u>Residential Non Heating Rates - R-1, R-5</u>			
Energy Efficiency Charge	\$ 0.0831		
Demand Side Management Charge	<u>0.0000</u>		
Conservation Charge (CCx)		\$ 0.0831	
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	<u>0.0197</u>		
Environmental Surcharge (ES)		0.0197	
Revenue Decoupling Adjustment Factor (RDAF)		(0.0562)	
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0000	
Rate Case Expense Factor (RCEF)		0.0002	
Residential Gas Assistance Program (RGAP)		<u>0.0121</u>	
LDAC		\$ 0.0589	per therm

<u>Residential Heating Rates - R-3, R-4, R-6, R-7</u>			
Energy Efficiency Charge	\$ 0.0831		
Demand Side Management Charge	<u>0.0000</u>		
Conservation Charge (CCx)		\$ 0.0831	
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	<u>0.0197</u>		
Environmental Surcharge (ES)		0.0197	
Revenue Decoupling Adjustment Factor (RDAF)		(0.0562)	
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0000	
Rate Case Expense Factor (RCEF)		0.0002	
Residential Gas Assistance Program (RGAP)		<u>0.0121</u>	
LDAC		\$ 0.0589	per therm

<u>Commercial/Industrial Low Annual Use Rates - G-41, G-51, G-44, G-55</u>			
Energy Efficiency Charge	\$0.0441		
Demand Side Management Charge	<u>0.0000</u>		
Conservation Charge (CCx)		\$ 0.0441	\$ 0.0441
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	<u>0.0197</u>		
Environmental Surcharge (ES)		0.0197	0.0197
Revenue Decoupling Adjustment Factor (RDAF)		(0.0206)	(0.0206)
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0000	0.0000
Rate Case Expense Factor (RCEF)		0.0002	0.0002
Residential Gas Assistance Program (RGAP)		<u>0.0121</u>	<u>0.0121</u>
LDAC		\$ 0.0555	\$ 0.0555 per therm

<u>Commercial/Industrial Medium Annual Use Rates - G-42, G-52, G-45, G-56</u>			
Energy Efficiency Charge	\$0.0441		
Demand Side Management Charge	<u>0.0000</u>		
Conservation Charge (CCx)		\$0.0441	\$0.0441
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	<u>0.0197</u>		
Environmental Surcharge (ES)		0.0197	0.0197
Revenue Decoupling Adjustment Factor (RDAF)		(0.0206)	(0.0206)
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0000	0.0000
Rate Case Expense Factor (RCEF)		0.0002	0.0002
Residential Gas Assistance Program (RGAP)		<u>0.0121</u>	<u>0.0121</u>
LDAC		\$ 0.0555	\$ 0.0555 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	\$ 0.0441		
Demand Side Management Charge	<u>0.0000</u>		
Conservation Charge (CCx)		\$0.0441	\$0.0441
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	<u>0.0197</u>		
Environmental Surcharge (ES)		0.0197	0.0197
Revenue Decoupling Adjustment Factor (RDAF)		(0.0206)	(0.0206)
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0000	0.0000
Rate Case Expense Factor (RCEF)		0.0002	0.0002
Residential Gas Assistance Program (RGAP)		<u>0.0121</u>	<u>0.0121</u>
LDAC		\$ 0.0555	\$ 0.0555 per therm

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2 ATTACHMENT B
Schedule of Administrative Fees and Charges

I. Supplier Balancing Charge:	\$	0.1200	per MMBtu of Daily Imbalance Volumes")
II. Capacity Mitigation Fee		15%	of the Proceeds from the Marketing of
III. Peaking Demand Charge	\$	17.32	MMBTU of Peak MDQ
IV. Company Allowance Calculation (per Schedule 25)			
		169,030,868	Total Sendout - Therms Jul -2019 - Jun-2020
		<u>166,311,578</u>	Total Throughput - Therms Jul-2019 - Jun-2020
		2,719,290	Variance (Sendout - Throughput)
Company Allowance Percentage 2020-21		1.6%	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	46.1%	17.1%	36.8%	100.0%
G-51	Low Annual/Low Winter Use	59.3%	12.9%	27.9%	100.0%
G-42	Medium Annual/ High Winter	46.1%	17.1%	36.8%	100.0%
G-52	High Annual/ Low Winter Use	59.3%	12.9%	27.9%	100.0%
G-43	High Annual/ High Winter	46.1%	17.1%	36.8%	100.0%
G-53	High Annual/ Load Factor < 90%	59.3%	12.9%	27.9%	100.0%
G-54	High Annual/ Load Factor < 90%	59.3%	12.9%	27.9%	100.0%

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