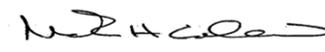


Anticipated Cost of Gas
New Hampshire Division
Period Covered: May 1, 2016 - October 31, 2016

(Col 1)	(Col 2)	(Col 3)
<u>ANTICIPATED DIRECT COST OF GAS</u>		
Purchased Gas:		
Demand Costs:	\$525,885	
Supply Costs:	\$2,040,682	
Storage & Peaking Gas:		
Demand, Capacity:	\$407,523	
Commodity Costs:	\$49,933	
Hedging (Gain)/Cost	\$0	
Interruptible Included Above	\$0	
Inventory Finance Charge	\$0	
Capacity Release, & Asset Management	\$0	
	<hr/>	
Total Anticipated Direct Cost of Gas		<u>\$3,024,024</u>
<u>ANTICIPATED INDIRECT COST OF GAS</u>		
Adjustments:		
Prior Period Under/(Over) Collection	\$23,260	
Interest	(\$335)	
Refunds	\$0	
<u>Interruptible Margins</u>	\$0	
Total Adjustments	<hr/>	\$22,925
Working Capital:		
Total Anticipated Direct Cost of Gas	\$3,024,024	
Working Capital Percentage	0.0887%	
Working Capital Allowance	\$2,682	
Plus: Working Capital Reconciliation (Acct 182.11)	<hr/> (\$431)	
Total Working Capital Allowance		\$2,251
Bad Debt:		
Bad Debt Allowance	\$22,890	
Plus: Bad Debt Reconciliation (Acct 182.16)	(\$12,773)	
Total Bad Debt Allowance		\$10,117
Local Production and Storage Capacity		\$0
Miscellaneous Overhead-22.99% Allocated to Summer Season		\$117,870
Total Anticipated Indirect Cost of Gas		\$153,163
Total Cost of Gas		<u>\$3,177,188</u>

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 Senior Vice President

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: May 1, 2016 - October 31, 2016

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$3,024,024	
Projected Prorated Sales (05/01/16- 10/31/16)	9,940,234	
Direct Cost of Gas Rate		\$0.3042 per therm
Demand Cost of Gas Rate	\$933,408	\$0.0939 per therm
Commodity Cost of Gas Rate	<u>\$2,090,615</u>	<u>\$0.2103</u> per therm
Total Direct Cost of Gas Rate	\$3,024,024	\$0.3042 per therm
Total Anticipated Indirect Cost of Gas	\$153,163	
Projected Prorated Sales (05/01/16- 10/31/16)	9,940,234	
Indirect Cost of Gas		\$0.0154 per therm
TOTAL PERIOD AVERAGE COST OF GAS		\$0.3196 per therm

RESIDENTIAL COST OF GAS RATE - 05/01/16	COGwr	\$0.3196 per therm
	Maximum (COG+25%)	\$0.3995

COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/16	COGwl	\$0.2832 per therm
	Maximum (COG+25%)	\$0.3540

C&I HLF DEMAND COSTS ALLOCATED PER SMBA	\$173,257
PLUS: RESIDENTIAL DEMAND RELOCATION TO C7I HLF	<u>\$26,630</u>
C&I HLF TOTAL ADJUSTED DEMAND COSTS	\$199,887
C&I HLF PROJECTED PRORATED SALES (05/1/16-10/31/16)	3,477,731
DEMAND COST OF GAS RATE	\$0.0575
C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$731,431
PLUS: RESIDENTIAL COMMODITY COSTS	<u>\$35</u>
C&I HLF TOTAL ADJUSTED COMMODITY COSTS	\$731,466
C&I HLF PROJECTED PRORATED SALES (05/1/16-10/31/16)	3,477,731
COMMODITY COST OF GAS RATE	\$0.2103
INDIRECT COST OF GAS	\$0.0154
TOTAL C&I HLF COST OF GAS RATE	\$0.2832

COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/16	COGwh	\$0.3619 per therm
	Maximum (COG+25%)	\$0.4524

C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$353,322
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF	<u>\$54,307</u>
C&I LLF TOTAL ADJUSTED DEMAND COSTS	\$407,629
C&I LLF PROJECTED PRORATED SALES (05/1/16-10/31/16)	2,991,879
DEMAND COST OF GAS RATE	\$0.1362
C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$629,248
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF	<u>\$30</u>
C&I LLF TOTAL ADJUSTED COMMODITY COSTS	\$629,277
C&I LLF PROJECTED PRORATED SALES (05/1/16-10/31/16)	2,991,879
COMMODITY COST OF GAS RATE	\$0.2103
INDIRECT COST OF GAS	\$0.0154
TOTAL C&I LLF COST OF GAS RATE	\$0.3619

**NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
 SUMMER SEASON RESIDENTIAL RATES**

Summer Season May 2016 - October 2016		Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
Residential Heating	<u>Tariff Rate R 5:</u>			
	Monthly Customer Charge	\$21.36	\$21.36	\$21.36
	First 50 therms	\$0.5449	\$0.5823	\$0.9019
	All usage over 50 therms	\$0.5449	\$0.5823	\$0.9019
	LDAC	\$0.0374		
	<u>Gas Cost Adjustment:</u> Cost of Gas	\$0.3196		
Residential Heating Low Income	<u>Tariff Rate R 10:</u>			
	Monthly Customer Charge	\$8.54	\$8.54	\$8.54
	First 50 therms	\$0.2179	\$0.2553	\$0.5749
	All usage over 50 therms	\$0.2179	\$0.2553	\$0.5749
	LDAC	\$0.0374		
	<u>Gas Cost Adjustment:</u> Cost of Gas	\$0.3196		
Residential Non-Heating	<u>Tariff Rate R 6:</u>			
	Monthly Customer Charge	\$21.36	\$21.36	\$21.36
	First 10 therms	\$0.4214	\$0.4588	\$0.7784
	All usage over 10 therms	\$0.4214	\$0.4588	\$0.7784
	LDAC	\$0.0374		
	<u>Gas Cost Adjustment:</u> Cost of Gas	\$0.3196		
Residential Non-Heating Low Income	<u>Tariff Rate R 11:</u>			
	Monthly Customer Charge	\$15.52	\$15.52	\$15.52
	First 10 therms	\$0.3196	\$0.3570	\$0.6766
	All usage over 10 therms	\$0.3196	\$0.3570	\$0.6766
	LDAC	\$0.0374		
	<u>Gas Cost Adjustment:</u> Cost of Gas	\$0.3196		

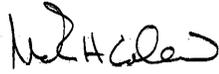
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NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
SUMMER SEASON C&I RATES

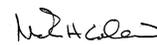
Summer Season May 2016 - October 2016		Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter	<u>Tariff Rate G 40:</u> Monthly Customer Charge First 75 therms All usage over 75 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$67.45 \$0.1615 \$0.1615 \$0.0223 \$0.3619	\$67.45 \$0.1838 \$0.1838	\$67.45 \$0.5457 \$0.5457
C&I Low Annual/Low Winter	<u>Tariff Rate G 50:</u> Monthly Customer Charge First 75 therms All usage over 75 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$67.45 \$0.1615 \$0.1615 \$0.0223 \$0.2832	\$67.45 \$0.1838 \$0.1838	\$67.45 \$0.4670 \$0.4670
C&I Medium Annual/High Winter	<u>Tariff Rate G 41:</u> Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$196.73 \$0.1622 \$0.0223 \$0.3619	\$196.73 \$0.1845	\$196.73 \$0.5464
C&I Medium Annual/Low Winter	<u>Tariff Rate G 51:</u> Monthly Customer Charge First 1,000 therms All usage over 1,000 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$196.73 \$0.1183 \$0.0958 \$0.0223 \$0.2832	\$196.73 \$0.1406 \$0.1181	\$196.73 \$0.4238 \$0.4013
C&I High Annual/High Winter	<u>Tariff Rate G 42:</u> Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$1,124.19 \$0.1066 \$0.0223 \$0.3619	\$1,124.19 \$0.1289	\$1,124.19 \$0.4908
C&I High Annual/Low Winter	<u>Tariff Rate G 52:</u> Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$1,124.19 \$0.0707 \$0.0223 \$0.2832	\$1,124.19 \$0.0930	\$1,124.19 \$0.3762

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NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
SUMMER SEASON C&I RATES

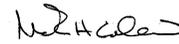
Summer Season May 2016 - October 2016		Tariff Rates	Total Delivery Rates (Includes LDAC)
C&I Low Annual/High Winter	Tariff Rate T 40: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC	\$67.45 \$0.1615 \$0.1615 \$0.0223	\$67.45 \$0.1838 \$0.1838
C&I Low Annual/Low Winter	Tariff Rate T 50: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC	\$67.45 \$0.1615 \$0.1615 \$0.0223	\$67.45 \$0.1838 \$0.1838
C&I Medium Annual/High Winter	Tariff Rate T 41: Monthly Customer Charge All usage LDAC	\$196.73 \$0.1622 \$0.0223	\$196.73 \$0.1845
C&I Medium Annual/Low Winter	Tariff Rate T 51: Monthly Customer Charge First 1,000 therms All usage over 1,000 therms LDAC	\$196.73 \$0.1183 \$0.0958 \$0.0223	\$196.73 \$0.1406 \$0.1181
C&I High Annual/High Winter	Tariff Rate T 42: Monthly Customer Charge All usage LDAC	\$1,124.49 \$0.1066 \$0.0223	\$1,124.49 \$0.1289
C&I High Annual/Low Winter	Tariff Rate T 52: Monthly Customer Charge All usage LDAC	\$1,124.49 \$0.0707 \$0.0223	\$1,124.49 \$0.0930
C&I Interruptible Transportation	Tariff Rate IT: Monthly Customer Charge First 20,000 therms All usage over 20,000 therms	\$170.21 \$0.0407 \$0.0347	\$170.21 \$0.0407 \$0.0347

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