

Tariff Sheets

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Northern Utilities, Inc.
New Hampshire Division
2018 / 2019 Annual Cost of Gas Filing
Winter and Summer Periods

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Anticipated Cost of Gas
New Hampshire Division
Period Covered: November 1, 2018 - April 30, 2019

	(Col 1)	(Col 2)	(Col 3)
<u>ANTICIPATED DIRECT COST OF GAS</u>			
Purchased Gas:			
Demand Costs:		\$1,683,109	
Supply Costs:		\$4,439,439	
Storage & Peaking Gas:			
Demand, Capacity:		\$13,190,356	
Commodity Costs:		\$10,942,865	
Interruptible Included Above		\$0	
Inventory Finance Charge		\$3,017	
Capacity Release, & Asset Management		(\$3,126,083)	
Re-entry Rate & Conversion Rate Revenues		\$ (10,000)	
Total Anticipated Direct Cost of Gas			<u>\$27,122,704</u>
<u>ANTICIPATED INDIRECT COST OF GAS</u>			
Adjustments:			
Prior Period Under/(Over) Collection		\$551,842	
Interest		(\$23,538)	
Refunds		\$0	
<u>Interruptible Margins</u>		<u>\$0</u>	
Total Adjustments			\$528,304
Working Capital:			
Total Anticipated Direct Cost of Gas		\$27,122,704	
Working Capital Percentage		<u>0.2742%</u>	
Working Capital Allowance		\$ 74,383	
Plus: Working Capital Reconciliation (Acct 173)		<u>\$7,940</u>	
Total Working Capital Allowance			\$82,323
Bad Debt:			
Bad Debt Allowance		\$177,230	
Plus: Bad Debt Reconciliation (Acct 173)		(\$15,500)	
Total Bad Debt Allowance			\$161,730
Local Production and Storage Capacity			\$476,106
Miscellaneous Overhead-81.59% Allocated to Winter Season			<u>\$471,052</u>
Total Anticipated Indirect Cost of Gas			\$1,719,515
Total Cost of Gas			<u>\$28,842,220</u>

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 Senior Vice President

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Anticipated Cost of Gas
New Hampshire Division
Period Covered: May 1, 2019 - October 31, 2019

(Col 1)	(Col 2)	(Col 3)
<u>ANTICIPATED DIRECT COST OF GAS</u>		
Purchased Gas:		
Demand Costs:	\$386,679	
Supply Costs:	\$1,973,217	
Storage & Peaking Gas:		
Demand, Capacity:	\$369,400	
Commodity Costs:	\$31,552	
Interruptible Included Above	\$0	
Inventory Finance Charge	\$0	
Capacity Release & Asset Management	\$0	
Re-entry Rate and Conversion Rate Revenues	\$0	
Total Anticipated Direct Cost of Gas		<u>\$2,760,847</u>
<u>ANTICIPATED INDIRECT COST OF GAS</u>		
Adjustments:		
Prior Period Under/(Over) Collection	\$128,167	
Interest	(\$42,173)	
Refunds	\$0	
<u>Interruptible Margins</u>	<u>\$0</u>	
Total Adjustments		\$85,994
Working Capital:		
Total Anticipated Direct Cost of Gas	\$2,760,847	
Working Capital Percentage	<u>0.2740%</u>	
Working Capital Allowance	\$7,572	
Plus: Working Capital Reconciliation (Acct 173)	<u>\$1,844</u>	
Total Working Capital Allowance		\$9,416
Bad Debt:		
Bad Debt Allowance	\$11,416	
Plus: Bad Debt Reconciliation (Acct 173)	(\$3,600)	
Total Bad Debt Allowance		\$7,817
Local Production and Storage Capacity		\$0
Miscellaneous Overhead-18.41% Allocated to the Summer Season		\$109,403
Total Anticipated Indirect Cost of Gas		\$212,629
Total Cost of Gas		<u>\$2,973,477</u>

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CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: November 1, 2018 - April 30, 2019

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$27,122,704	
Projected Prorated Sales (11/01/18 - 04/30/19)	34,882,919	
Direct Cost of Gas Rate		\$0.7775 per therm
Demand Cost of Gas Rate	\$11,747,382	\$0.3368 per therm
Commodity Cost of Gas Rate	<u>\$15,382,305</u>	<u>\$0.4410 per therm</u>
Total Direct Cost of Gas Rate	<u>\$27,128,686</u>	<u>\$0.7778 per therm</u>
Total Anticipated Indirect Cost of Gas	\$1,719,515	
Projected Prorated Sales (11/01/18 - 04/30/19)	34,882,919	
Indirect Cost of Gas		\$0.0493 per therm
TOTAL PERIOD AVERAGE COST OF GAS		\$0.8271 per therm

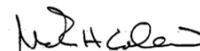
RESIDENTIAL COST OF GAS RATE -11/01/18	COGwr	\$0.8271 per therm
	Maximum (COG+25%)	\$1.0339

COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/18	COGwl	\$0.7254 per therm
	Maximum (COG+25%)	\$0.9068

C&I HLF DEMAND COSTS ALLOCATED PER SMBA	\$660,916
PLUS: RESIDENTIAL DEMAND REALLOCATION TO C&I HLF	<u>(\$16,297)</u>
C&I HLF TOTAL ADJUSTED DEMAND COSTS	\$644,620
C&I HLF PROJECTED PRORATED SALES (11/01/18 - 04/30/19)	2,480,220
DEMAND COST OF GAS RATE	\$0.2599
C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$1,031,082
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF	<u>\$1,238</u>
C&I HLF TOTAL ADJUSTED COMMODITY COSTS	\$1,032,320
C&I HLF PROJECTED PRORATED SALES (11/01/18 - 04/30/19)	2,480,220
COMMODITY COST OF GAS RATE	\$0.4162
INDIRECT COST OF GAS	\$0.0493
TOTAL C&I HLF COST OF GAS RATE	\$0.7254

COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/18	COGwh	\$0.8424 per therm
	Maximum (COG+25%)	\$1.0530

C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$5,787,436
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF	<u>(\$142,706)</u>
C&I LLF TOTAL ADJUSTED DEMAND COSTS	\$5,644,730
C&I LLF PROJECTED PRORATED SALES (11/01/18 - 04/30/19)	16,211,416
DEMAND COST OF GAS RATE	\$0.3482
C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$7,203,090
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF	<u>\$8,649</u>
C&I LLF TOTAL ADJUSTED COMMODITY COSTS	\$7,211,739
C&I LLF PROJECTED PRORATED SALES (11/01/18 - 04/30/19)	16,211,416
COMMODITY COST OF GAS RATE	\$0.4449
INDIRECT COST OF GAS	\$0.0493
TOTAL C&I LLF COST OF GAS RATE	\$0.8424



CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: May 1, 2019 - October 31, 2019

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$2,760,547	
Projected Prorated Sales (05/01/19 - 10/31/19)	8,101,656	
Direct Cost of Gas Rate		\$0.3408 per therm
Demand Cost of Gas Rate	\$756,079	\$0.0933 per therm
Commodity Cost of Gas Rate	<u>\$2,004,769</u>	<u>\$0.2475</u> per therm
Total Direct Cost of Gas Rate	\$2,760,847	\$0.3408 per therm
Total Anticipated Indirect Cost of Gas	\$212,629	
Projected Prorated Sales (05/01/19 - 10/31/19)	8,101,656	
Indirect Cost of Gas		\$0.0262 per therm
TOTAL PERIOD AVERAGE COST OF GAS		\$0.3670 per therm

RESIDENTIAL COST OF GAS RATE -05/01/19	COGwr	\$0.3670 per therm
	Maximum (COG+25%)	\$0.4588

COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/19	COGwl	\$0.3269 per therm
	Maximum (COG+25%)	\$0.4086

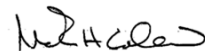
C&I HLF DEMAND COSTS ALLOCATED PER SMBA	\$100,148
PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF	<u>\$1,289</u>
C&I HLF TOTAL ADJUSTED DEMAND COSTS	\$101,438
C&I HLF PROJECTED PRORATED SALES (05/01/19 - 10/31/19)	1,904,106
DEMAND COST OF GAS RATE	\$0.0533
C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$471,174
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF	<u>(\$72)</u>
C&I HLF TOTAL ADJUSTED COMMODITY COSTS	\$471,103
C&I HLF PROJECTED PRORATED SALES (05/01/19 - 10/31/19)	1,904,106
COMMODITY COST OF GAS RATE	\$0.2474
INDIRECT COST OF GAS	\$0.0262
TOTAL C&I HLF COST OF GAS RATE	\$0.3269

COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/19	COGwh	\$0.3958 per therm
	Maximum (COG+25%)	\$0.4948

C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$319,185
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF	<u>\$4,109</u>
C&I LLF TOTAL ADJUSTED DEMAND COSTS	\$323,295
C&I LLF PROJECTED PRORATED SALES (05/01/19 - 10/31/19)	2,646,145
DEMAND COST OF GAS RATE	\$0.1222
C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$654,793
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF	<u>(\$100)</u>
C&I LLF TOTAL ADJUSTED COMMODITY COSTS	\$654,693
C&I LLF PROJECTED PRORATED SALES (05/01/19 - 10/31/19)	2,646,145
COMMODITY COST OF GAS RATE	\$0.2474
INDIRECT COST OF GAS	\$0.0262
TOTAL C&I LLF COST OF GAS RATE	\$0.3958

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Local Delivery Adjustment Clause


Rate Schedule	RLIARA	EEC	LRR	ERC	ITMC	RCE	RPC	LDAC
Residential Heating	\$0.0044	\$0.0501	\$0.0064	\$0.0058	\$0.0000	\$0.0029	(\$0.0013)	\$0.0683
Residential Non-Heating	\$0.0044	\$0.0501	\$0.0064	\$0.0058	\$0.0000	\$0.0029	(\$0.0013)	\$0.0683
Small C&I	\$0.0044	\$0.0264	\$0.0014	\$0.0058	\$0.0000	\$0.0029	(\$0.0013)	\$0.0396
Medium C&I	\$0.0044	\$0.0264	\$0.0014	\$0.0058	\$0.0000	\$0.0029	(\$0.0013)	\$0.0396
Large C&I	\$0.0044	\$0.0264	\$0.0014	\$0.0058	\$0.0000	\$0.0029	(\$0.0013)	\$0.0396
No Previous Sales Service								

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Local Delivery Adjustment Clause


Rate Schedule	RLIARA	EEC	LRR	ERC	ITMC	RCE	RPC	LDAC
Residential Heating	\$0.0044	\$0.0501	\$0.0064	\$0.0058	\$0.0000	\$0.0000	\$0.0000	\$0.0667
Residential Non-Heating	\$0.0044	\$0.0501	\$0.0064	\$0.0058	\$0.0000	\$0.0000	\$0.0000	\$0.0667
Small C&I	\$0.0044	\$0.0264	\$0.0014	\$0.0058	\$0.0000	\$0.0000	\$0.0000	\$0.0380
Medium C&I	\$0.0044	\$0.0264	\$0.0014	\$0.0058	\$0.0000	\$0.0000	\$0.0000	\$0.0380
Large C&I	\$0.0044	\$0.0264	\$0.0014	\$0.0058	\$0.0000	\$0.0000	\$0.0000	\$0.0380
No Previous Sales Service								

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Title:

Senior Vice President

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

Winter Season November 2018 - April 2019		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	\$0.6660	\$0.7343	\$1.5614
	All usage over 50 therms	\$0.6660	\$0.7343	\$1.5614
	LDAC	\$0.0683		
	<u>Gas Cost Adjustment:</u>			
Cost of Gas	\$0.8271			
Residential Heating Low Income	<u>Tariff Rate R 10:</u>			
	Monthly Customer Charge	\$8.54	\$8.54	\$8.54
	First 50 therms	\$0.2664	\$0.3347	\$1.1618
	All usage over 50 therms	\$0.2664	\$0.3347	\$1.1618
	LDAC	\$0.0683		
	<u>Gas Cost Adjustment:</u>			
Cost of Gas	\$0.8271			
Residential Non-Heating	<u>Tariff Rate R 6:</u>			
	Monthly Customer Charge	\$21.36	\$21.36	\$21.36
	First 10 therms	\$0.6227	\$0.6910	\$1.5181
	All usage over 10 therms	\$0.6227	\$0.6910	\$1.5181
	LDAC	\$0.0683		
	<u>Gas Cost Adjustment:</u>			
Cost of Gas	\$0.8271			


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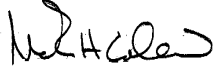


Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
SUMMER SEASON RESIDENTIAL RATES

Summer Season May 2019 - October 2019		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 First 50 therms All usage over 50 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$21.36 \$0.5870 \$0.5870 \$0.0667 \$0.3670	\$21.36 \$0.6537 \$0.6537	\$21.36 \$1.0207 \$1.0207
Residential Heating Low Income	<u>Tariff Rate R 10:</u> Monthly Customer Charge First 50 therms All usage over 50 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$8.54 \$0.2348 \$0.2348 \$0.0667 \$0.3670	\$8.54 \$0.3015 \$0.3015	\$8.54 \$0.6685 \$0.6685
Residential Non-Heating	<u>Tariff Rate R 6:</u> Monthly Customer Charge First 10 therms All usage over 10 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$21.36 \$0.6227 \$0.6227 \$0.0667 \$0.3670	\$21.36 \$0.6894 \$0.6894	\$21.36 \$1.0564 \$1.0564

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

Winter Season November 2018 - April 2019	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	\$72.26 \$0.1795 \$0.1795 \$0.0396 \$0.8424	\$72.26 \$0.2191 \$0.2191	\$72.26 \$1.0615 \$1.0615
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	\$72.26 \$0.1795 \$0.1795 \$0.0396 \$0.7254	\$72.26 \$0.2191 \$0.2191	\$72.26 \$0.9445 \$0.9445
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	\$214.26 \$0.2334 \$0.0396 \$0.8424	\$214.26 \$0.2730	\$214.26 \$1.1154
C&I Medium Annual/Low Winter <u>Tariff Rate G 51:</u> Monthly Customer Charge First 1,300 therms All usage over 1,300 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$214.26 \$0.1648 \$0.1346 \$0.0396 \$0.7254	\$214.26 \$0.2044 \$0.1742	\$214.26 \$0.9298 \$0.8996
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	\$1,285.55 \$0.1909 \$0.0396 \$0.8424	\$1,285.55 \$0.2305	\$1,285.55 \$1.0729
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	\$1,285.55 \$0.1655 \$0.0396 \$0.7254	\$1,285.55 \$0.2051	\$1,285.55 \$0.9305

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 Title: Senior Vice President

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

Summer Season May 2019 - October 2019		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 Gas Cost Adjustment: Cost of Gas	\$72.26 \$0.1795 \$0.1795 \$0.0380 \$0.3958	\$72.26 \$0.2175 \$0.2175 \$0.0380	\$72.26 \$0.6133 \$0.6133 \$0.0380
C&I Low Annual/Low Winter	<u>Tariff Rate G 50:</u> Monthly Customer Charge First 75 therms All usage over 75 therms LDAC Gas Cost Adjustment: Cost of Gas	\$72.26 \$0.1795 \$0.1795 \$0.0380 \$0.3269	\$72.26 \$0.2175 \$0.2175 \$0.0380	\$72.26 \$0.5444 \$0.5444 \$0.0380
C&I Medium Annual/High Winter	<u>Tariff Rate G 41:</u> Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$214.26 \$0.1824 \$0.0380 \$0.3958	\$214.26 \$0.2204 \$0.0380	\$214.26 \$0.6162 \$0.0380
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 Gas Cost Adjustment: Cost of Gas	\$214.26 \$0.1287 \$0.1046 \$0.0380 \$0.3269	\$214.26 \$0.1667 \$0.1426 \$0.0380	\$214.26 \$0.4936 \$0.4695 \$0.0380
C&I High Annual/High Winter	<u>Tariff Rate G 42:</u> Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,285.55 \$0.1161 \$0.0380 \$0.3958	\$1,285.55 \$0.1541 \$0.0380	\$1,285.55 \$0.5499 \$0.0380
C&I High Annual/Low Winter	<u>Tariff Rate G 52:</u> Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,285.55 \$0.0762 \$0.0380 \$0.3269	\$1,285.55 \$0.1142 \$0.0380	\$1,285.55 \$0.4411 \$0.0380

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 Title: Senior Vice President

VII. DELIVERY SERVICE TERMS AND CONDITIONS (continued)

14.3 Rates and Charges

14.3.1 The applicable rates for Peaking Service shall be established in the Company's tariff. The Supplier shall pay a peaking demand charge based on its MDPQ of assigned Peaking Capacity as billed by the Company for the Peak Season. Such unit demand charge shall be equal to the total Capacity costs and other fixed costs associated with the Company's peaking resources, excluding costs collected through Delivery rates, divided by the estimated peaking resources needed to meet the Company's total system Peak Day requirement Effective November 1, 2018, Peaking Service demand charge shall exclude contracts not specified by the Company pursuant to Section 11.2 of these Delivery Service Terms and Conditions.

14.3.2 The Supplier shall pay a Commodity charge equal to the estimated weighted average cost of peaking supplies, including fuel retention and carrying charges. The Company shall communicate electronically, by facsimile or by other agreeable alternative means the Company's estimated weighted average cost of peaking supplies by the 15th of the month preceding the next Assignment Date. The Commodity charge assigned to Supplier in accordance with Section 14.3.1. will be multiplied by the volumes of Peaking Service Gas nominated by the Supplier during each Month

14.4 Peaking Supply

14.4.1 The Customer's portion of the Peaking Supply that shall be assigned to the Supplier on behalf of the Customer shall be equal to the Peaking Supply multiplied by the ratio of the Customer's MDPQ to the aggregate MDPQ of the total system.

14.4.2 On each Assignment Date, the Company shall assign Peaking Supply to a Supplier whose MDPQ has been increased pursuant to Part VII, Section 11.4. If the Company assigns incremental Peaking Supply to a Supplier, the Company shall credit the balance of the Supplier's Peaking Service Account for volumes available through October 31 in accordance with the Peaking Service Rule Curve. The amount credited to the Supplier's Peaking Service Account shall be determined by multiplying the incremental Peaking Supply by the peaking inventory percentage described in Part VII, Section 14.4.5.

14.4.3 On each Assignment Date, the Company shall recall Peaking Supply from a Supplier whose MDPQ has been decreased pursuant to Part VII, Section 11.7. The Company shall determine the Supplier's total Peaking Supply for recall to be equal to the difference between the cumulative total Peaking Supply assigned to the Supplier as of the previous Assignment

VII. DELIVERY SERVICE TERMS AND CONDITIONS

APPENDIX A

Schedule of Administrative Fees and Charges

I. Supplier Balancing Charge: \$0.71 per MMBtu of Daily Imbalance Volumes

- Updated effective every November 1 to reflect the Company’s latest balancing resources and associated capacity costs.
- Daily Imbalance Volumes represent the difference between ATV and ATV adjusted for actual EDDs.

II. Peaking Service Demand Charge: \$ 50.35 per MMBtu per MDPQ per month for November 2018 through April 2019.

- Updated effective every November 1 to reflect the Company’s Peaking resources and associated costs.

III. Company Allowance Calculation: 1.48% - Provided in Attachment 3 to Schedule 10

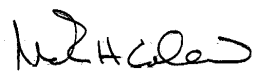
IV. Supplier Services and Associated Fees:

<u>SERVICE</u>	<u>PRICING</u>
Pool Administration (required) Non-Daily Metered Pools only	• \$0.10/month/customer billed @ marketer level
Standard Passthrough Billing (required)	• \$0.60/customer/month billed @ marketer level
Standard Complete Billing (optional – Passthrough Billing fee not required if this service is elected)	• \$1.50/customer/month billed @ marketer level
Customer Administration (required)	• \$10/customer/switch billed @ marketer level

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Senior Vice President

VII. DELIVERY SERVICE TERMS AND CONDITIONS

APPENDIX C

Capacity Allocators

Capacity Allocators shall be calculated and filed with the Commission each year with the Winter Cost of Gas filing. The following Capacity Allocators shall be applicable for capacity assignments during the period of November 1, 2018 through October 31, 2019.

Commercial and Industrial

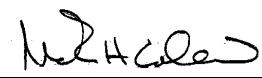
	<u>High Winter Use</u>	<u>Low Winter Use</u>
Pipeline:	9.84%	63.40%
Storage:	36.42%	14.79%
Peaking:	53.74%	21.81%

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VII. DELIVERY SERVICE TERMS AND CONDITIONS (continued)

Appendix D

**Re-entry Surcharge and Conversion Surcharge
(continued)**

D. Information to be Filed with the Commission:

As part of the annual Cost of Gas filing, the Company shall file with the Commission a report showing the number of customers assessed the Re-entry Surcharge and the Conversion Surcharge and the amount of revenue received for each charge through the prior April 30. Pursuant to the Company’s Cost of Gas Clause, the Company will apply such revenues as credits to the Company’s New Hampshire Division Cost of Gas.

The following Re-entry Surcharge and Conversion Surcharge shall be applicable for the periods of November 1, 2018 through April 30, 2019 and May 1, 2019 through October 2019.

Effective Dates:	November 1, 2018 – April 30, 2019	May 1, 2019 – October 30, 2019
Re-entry Surcharge:	\$0.0000 per therm	\$0.0000 per therm
Conversion Surcharge, Low Load Factor (G-40, G-41, G-42):	\$0.0041 per therm	\$0.0000 per therm
Conversion Surcharge, High Load Factor (G-50, G-51, G-52):	\$0.1211 per therm	\$0.0000 per therm

Issued: September 17, 2018

Effective: November 1, 2018

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Title: Senior Vice President


Anticipated Cost of Gas

New Hampshire Division

Period Covered: November 1, 2017~~8~~ - October 31, 2018~~9~~

(Col 1)	(Col 2)	(Col 3)
ANTICIPATED DIRECT COST OF GAS		
Purchased Gas:		
Demand Costs:	\$ 2,736,659	\$ 1,683,109
Supply Costs:	\$ 8,821,653	\$ 4,439,439
Storage & Peaking Gas:		
Demand, Capacity:	\$ 8,330,279	\$ 13,190,356
Commodity Costs:	\$ 5,967,050	\$ 10,942,865
Hedging (Gain)/Loss	\$ 112,028	\$ -
Interruptible Included Above	\$ -	\$ -
Inventory Finance Charge	\$ 3,454	\$ 3,017
Capacity Release	\$ (1,894,561)	\$ (3,126,083)
 Off-system Peaking Demand Cost Adjustment		
Re-entry Rate & Conversion Rate Revenues	\$ (44,199)	\$ (10,000)
Total Anticipated Direct Cost of Gas		\$ 24,032,363 \$ 27,122,704
ANTICIPATED INDIRECT COST OF GAS		
Adjustments:		
Prior Period Under/(Over) Collection	\$ (292,077)	\$ 551,842
NH PUC Consultant Costs		
Interest	\$ (25,703)	\$ (23,538)
Refunds	\$ -	\$ -
Interruptible Margins	\$ -	\$ -
Total Adjustments	\$ (317,780)	\$ 528,304
Working Capital:		
Total Anticipated Direct Cost of Gas	\$ 24,032,363	\$ 27,122,704
Working Capital Percentage	0.1077%	0.2742%
Working Capital Allowance	\$ 25,884	\$ 74,383
Plus: Working Capital Reconciliation (Acct 173)	\$ 2,771	\$ 7,940
Total Working Capital Allowance	\$ 28,656	\$ 82,323
Bad Debt:		
Bad Debt Allowance	\$ 184,403	\$ 177,230
Plus: Bad Debt Reconciliation (Acct 173)	\$ (3,164)	\$ (15,500)
Total Bad Debt Allowance	\$ 181,243	\$ 161,730
Local Production and Storage Capacity	\$ 420,658	\$ 476,106
Miscellaneous Overhead-81.5931.15% Allocated to Winter Season	\$ 418,262	\$ 471,052
Total Anticipated Indirect Cost of Gas	\$ 731,039	\$ 1,719,515
Total Cost of Gas	\$ 24,763,403	\$ 28,842,220

Issued: May 9, 2018 September 17, 2018
 Effective Date: November 1, 2017~~8~~

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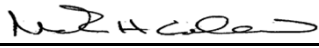
Anticipated Cost of Gas
New Hampshire Division
Period Covered: May 1, 2018~~9~~ - October 31, 2018~~9~~

(Col 1)	(Col 2)	(Col 2)	(Col 3)	(Col 3)
ANTICIPATED DIRECT COST OF GAS				
Purchased Gas:				
Demand Costs:	\$592,766	\$386,679		
Supply Costs:	\$2,119,016	\$1,973,217		
Storage & Peaking Gas:				
Demand, Capacity:	\$370,493	\$369,400		
Commodity Costs:	\$29,837	\$31,552		
Hedging (Gain)/Cost	\$0	\$0		
Interruptible Included Above	\$0	\$0		
Inventory Finance Charge	\$0	\$0		
Capacity Release & Asset Management	\$0	\$0		
Re-entry Rate & Conversion Rate Revenues			\$0	
Total Anticipated Direct Cost of Gas			\$3,112,112	\$2,760,847
ANTICIPATED INDIRECT COST OF GAS				
Adjustments:				
Prior Period Under/(Over) Collection	(\$65,925)	\$128,167		
NH PUC Consultant Costs	\$0			
Interest	(\$27,527)	(\$42,173)		
Refunds	\$0	\$0		
Interruptible Margins	\$0	\$0		
Total Adjustments			(\$93,452)	\$85,994
Working Capital:				
Total Anticipated Direct Cost of Gas	\$3,112,112	\$2,760,847		
Working Capital Percentage	0.1077%	0.274%		
Working Capital Allowance	\$3,352	\$7,572		
Plus: Working Capital Reconciliation (Acct 182.11)	\$626	\$1,844		
Total Working Capital Allowance			\$3,977	\$9,416
Bad Debt:				
Bad Debt Allowance	\$11,146	\$11,416		
Plus: Bad Debt Reconciliation (Acct 182.16)	(\$713)	(\$3,600)		
Total Bad Debt Allowance			\$10,433	\$7,817
Local Production and Storage Capacity			\$0	\$0
Miscellaneous Overhead-18.4418.85% Allocated to the Summer Season			\$94,406	\$109,403
Total Anticipated Indirect Cost of Gas			\$15,364	\$212,629
Total Cost of Gas			\$3,127,475	\$2,973,477

Issued: ~~May 9, 2018~~ September 17, 2018

Effective Date: May 1, 2018 ~~2019~~

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 Senior Vice President

CALCULATION OF FIRM SALES COST OF GAS RATE

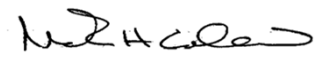
Period Covered: November 1, 2017~~8~~ - April 30, 2018~~9~~

(Col 1)	(Col 2)	(Col 3)		
Total Anticipated Direct Cost of Gas	\$24,032,363	<u>\$27,122,794</u>		
Projected Prorated Sales (11/01/17 - 04/30/18) (11/01/18 - 04/30/19)	34,865,979	<u>34,882,919</u>		
Direct Cost of Gas Rate			\$0.6893	<u>\$0.7775</u> per therm
Demand Cost of Gas Rate	\$9,129,178	<u>\$11,747,382</u>	\$0.2618	\$0.3368 per therm
Commodity Cost of Gas Rate	\$14,904,185	<u>\$15,382,305</u>	\$0.4274	\$0.4410 per therm
Total Direct Cost of Gas Rate	\$24,032,363	<u>\$27,129,687</u>	\$0.6893	\$0.7778 per therm
Total Anticipated Indirect Cost of Gas	\$731,226	<u>\$1,719,515</u>		
Projected Prorated Sales (11/01/17 - 04/30/18) (11/01/18 - 04/30/19)	34,865,979	<u>34,882,919</u>		
Indirect Cost of Gas			\$0.0210	\$0.0493 per therm
TOTAL PERIOD AVERAGE COST OF GAS			\$0.7103	\$0.8271 per therm
Period Ending over-collection as determined on 01/19/17			\$2,500,000	
Projected Sales (02/01/18 - 04/30/18)			\$16,202,626	
Per unit change in Cost of Gas (02/01/18 - 04/30/18)			\$0.1543	
-1 Over-collection w/o rate adjustment as contained in NUs COG Report dated January 19, 2018				

RESIDENTIAL COST OF GAS RATE - 02/01/18-11/01/18	COGwr	\$0.8646	\$0.8271	per therm
	Maximum (COG+25%)	\$0.8879	\$1.0339	
RESIDENTIAL COST OF GAS RATE - 11/01/17			\$0.7103	
CHANGE IN PER-UNIT COST			\$0.1543	
RESIDENTIAL COST OF GAS RATE - 02/01/18			\$0.8646	

COM/IND LOW WINTER USE COST OF GAS RATE - 02/01/18 11/01/18	COGwl	\$0.7767	\$0.7254	per therm
	Maximum (COG+25%)	\$0.9045	\$0.9068	
COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/17			\$0.6224	
CHANGE IN PER-UNIT COST			\$0.1543	
COM/IND LOW WINTER USE COST OF GAS RATE - 02/01/18			\$0.7767	
C&I HLF DEMAND COSTS ALLOCATED PER SMBA	\$660,916			
PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF	(\$16,297)			
C&I HLF TOTAL ADJUSTED DEMAND COSTS	<u>\$664,620</u>			
C&I HLF PROJECTED PRORATED SALES (11/1/18-04/30/19)	2,480,220			
DEMAND COST OF GAS RATE	\$0.2599			
C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$1,031,082			
PLUS: RESIDENTIAL COMMODITY COSTS	\$1,238			
C&I HLF TOTAL ADJUSTED COMMODITY COSTS	<u>\$1,032,320</u>			
C&I HLF PROJECTED PRORATED SALES (11/01/18 - 04/30/19)	2,480,220			
COMMODITY COST OF GAS RATE	\$0.4162			
INDIRECT COST OF GAS	\$0.0493			
TOTAL C&I HLF COST OF GAS RATE	\$0.7254			

COM/IND HIGH WINTER USE COST OF GAS RATE - 02/01/18-11/01/18	COGwh	\$0.8779	\$0.8424	per therm
	Maximum (COG+25%)	\$0.9045	\$1.0530	
COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/17			\$0.7236	
CHANGE IN PER-UNIT COST			\$0.1543	
COM/IND HIGH WINTER USE COST OF GAS RATE - 02/01/18			\$0.8779	
C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$5,787,436			
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF	(\$142,706)			
C&I LLF TOTAL ADJUSTED DEMAND COSTS	<u>\$5,644,730</u>			
C&I LLF PROJECTED PRORATED SALES (11/01/18 - 04/30/19)	16,211,416			
DEMAND COST OF GAS RATE	\$0.3482			
C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$7,203,090			
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF	\$8,649			
C&I LLF TOTAL ADJUSTED COMMODITY COSTS	<u>\$7,211,739</u>			
C&I LLF PROJECTED PRORATED SALES (11/01/18 - 04/30/19)	16,211,416			
COMMODITY COST OF GAS RATE	\$0.4449			
INDIRECT COST OF GAS	\$0.0493			
TOTAL C&I LLF COST OF GAS RATE	\$0.8424			



CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: May 1, 2018 - October 31, 2018

(Col 1)	(Col 2)	(Col 2)	(Col 3)	(Col 3)
Total Anticipated Direct Cost of Gas	\$3,112,112	\$2,760,847		
Projected Prorated Sales (05/01/18 - 10/31/18) (05/01/19 - 10/31/19)	<u>7,869,574</u>	<u>8,101,656</u>		
Direct Cost of Gas Rate			\$0.3955	\$0.3408 per therm
Demand Cost of Gas Rate	\$963,258	\$756,079	\$0.1224	\$0.0933 per therm
Commodity Cost of Gas Rate	\$2,148,854	\$2,004,769	\$0.2734	\$0.2475 per therm
Total Direct Cost of Gas Rate	\$3,112,112	\$2,760,847	\$0.3955	\$0.3408 per therm
Total Anticipated Indirect Cost of Gas	\$15,364	\$212,629		
Projected Prorated Sales (05/01/18 - 10/31/18) (05/01/19 - 10/31/19)	<u>7,869,574</u>	<u>8,101,656</u>		
Indirect Cost of Gas			\$0.0020	\$0.0262 per therm
TOTAL PERIOD AVERAGE COST OF GAS			\$0.3975	\$0.3670 per therm

RESIDENTIAL COST OF GAS RATE - 05/01/18	COGwr	\$0.3975	\$0.3670	per therm
	Maximum (COG+25%)	\$0.4969	\$0.4588	

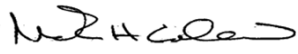
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/18	COGwl	\$0.3543	\$0.3269	per therm
	Maximum (COG+25%)	\$0.4429	\$0.4086	

C&I HLF DEMAND COSTS ALLOCATED PER SMBA	\$125,955	\$100,148
PLUS: RESIDENTIAL DEMAND REALLOCATION TO C&I HLF	<u>\$13,376</u>	<u>\$1,289</u>
C&I HLF TOTAL ADJUSTED DEMAND COSTS	<u>\$139,331</u>	<u>\$101,438</u>
C&I HLF PROJECTED PRORATED SALES (05/01/18 - 10/31/18)	4,757,926	1,904,106
DEMAND COST OF GAS RATE	\$0.0793	\$0.0533
C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$480,017	\$471,174
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF	<u>(\$66)</u>	<u>(\$72)</u>
C&I HLF TOTAL ADJUSTED COMMODITY COSTS	<u>\$479,951</u>	<u>\$471,103</u>
C&I HLF PROJECTED PRORATED SALES (05/01/18 - 10/31/18)	1,757,926	1,904,106
COMMODITY COST OF GAS RATE	\$0.2730	\$0.2474
INDIRECT COST OF GAS	\$0.0020	\$0.0262
TOTAL C&I HLF COST OF GAS RATE	\$0.3543	\$0.3269

COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/18	COGwh	\$0.4254	\$0.3958	per therm
	Maximum (COG+25%)	\$0.5318	\$0.4948	

C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$368,794	\$319,185
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF	<u>\$39,165</u>	<u>\$4,109</u>
C&I LLF TOTAL ADJUSTED DEMAND COSTS	<u>\$407,959</u>	<u>\$323,295</u>
C&I LLF PROJECTED PRORATED SALES (05/01/18 - 10/31/18)	2,713,210	2,646,145
DEMAND COST OF GAS RATE	\$0.1504	\$0.1222
C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$740,865	\$654,793
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF	<u>(\$85)</u>	<u>(\$100)</u>
C&I LLF TOTAL ADJUSTED COMMODITY COSTS	<u>\$740,780</u>	<u>\$654,693</u>
C&I LLF PROJECTED PRORATED SALES (05/01/18 - 10/31/18)	2,713,210	2,646,145
COMMODITY COST OF GAS RATE	\$0.2730	\$0.2474
INDIRECT COST OF GAS	\$0.0020	\$0.0262
TOTAL C&I LLF COST OF GAS RATE	\$0.4254	\$0.3958

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Senior Vice President

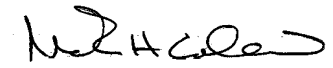
Local Delivery Adjustment Clause

Rate Schedule	RLIARA	EEC	LRR	ERC	ITMC	RCE	RPC	LDAC
Residential Heating	0.0039-0.0044	0.0433-0.0501	0.0028-0.0064	0.0060-0.0058	\$0.0000	\$0.0029	(\$0.0013)	0.0576 0.0683
Residential Non-Heating	0.0039-0.0044	0.0433-0.0501	0.0028-0.0064	0.0060-0.0058	\$0.0000	\$0.0029	(\$0.0013)	0.0576 0.0683
Small C&I	0.0039-0.0044	0.0184-0.0264	0.0010-0.0014	0.0060-0.0058	\$0.0000	\$0.0029	(\$0.0013)	0.0309-0.0396
Medium C&I	0.0039-0.0044	0.0184-0.0264	0.0010-0.0014	0.0060-0.0058	\$0.0000	\$0.0029	(\$0.0013)	0.0309-0.0396
Large C&I	0.0039-0.0044	0.0184-0.0264	0.0010-0.0014	0.0060-0.0058	\$0.0000	\$0.0029	(\$0.0013)	0.0309-0.0396
No Previous Sales Service								

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Title:

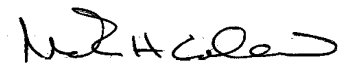
Senior Vice President

Local Delivery Adjustment Clause

Rate Schedule	RLIARA	EEC	LRR	ERC	ITMC	RCE	RPC	LDAC
Residential Heating	\$0.0044	\$0.0501	\$0.0064	\$0.0058	\$0.0000	0.0029 0.0000 (0.0013) 0.0000	0.0683 0.0667	
Residential Non-Heating	\$0.0044	\$0.0501	\$0.0064	\$0.0058	\$0.0000	0.0029 0.0000 (0.0013) 0.0000	0.0683 0.0667	
Small C&I	\$0.0044	\$0.0264	\$0.0014	\$0.0058	\$0.0000	0.0029 0.0000 (0.0013) 0.0000	0.0396 0.0380	
Medium C&I	\$0.0044	\$0.0264	\$0.0014	\$0.0058	\$0.0000	0.0029 0.0000 (0.0013) 0.0000	0.0396 0.0380	
Large C&I	\$0.0044	\$0.0264	\$0.0014	\$0.0058	\$0.0000	0.0029 0.0000 (0.0013) 0.0000	0.0396 0.0380	
No Previous Sales Service								

Issued: September 17, 2018
Effective: With Service Rendered On and After ~~May~~ November 1, 2019⁸

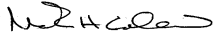
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Title: Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
 WINTER SEASON RESIDENTIAL RATES

	Winter Season November 2017 8 - April 2018 9	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
Residential Heating	Tariff Rate R 5: Monthly Customer Charge First 50 therms All usage over 50 therms LDAC Gas Cost Adjustment: Cost of Gas	\$21.36 \$0.6468 \$0.6660 \$0.5332 \$0.6660 \$0.0560 \$0.0683 \$0.8646 \$0.8271	\$21.36 \$0.7028 \$0.7343 \$0.5892 \$0.7343	\$21.36 \$1.5674 \$1.5614 \$1.4538 \$1.5614
Residential Heating Low income	Tariff Rate R 10: Monthly Customer Charge First 50 therms All usage over 50 therms LDAC Gas Cost Adjustment: Cost of Gas	\$8.54 \$0.2725 \$0.2664 \$0.2270 \$0.2664 \$0.0560 \$0.0683 \$0.8646 \$0.8271	\$8.54 \$0.3285 \$0.3347 \$0.2830 \$0.3347	\$8.54 \$1.1931 \$1.1618 \$1.1476 \$1.1618
Residential Non-Heating	Tariff Rate R 6: Monthly Customer Charge First 10 therms All usage over 10 therms LDAC Gas Cost Adjustment: Cost of Gas	\$21.36 \$0.4443 \$0.6227 \$0.4443 \$0.6227 \$0.0560 \$0.0683 \$0.8646 \$0.8271	\$21.36 \$0.5003 \$0.6910 \$0.5003 \$0.6910	\$21.36 \$1.3649 \$1.5181 \$1.3649 \$1.5181

Issued: ~~May 9, 2018~~ September 17, 2018
 Effective Date: November 1, ~~2017~~ 2018
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NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
 SUMMER-SEASON RESIDENTIAL RATES

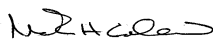
Summer Season May 2018 9 - October 2018 9	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
Residential Heating Tariff Rate R 5: Monthly Customer Charge First 50 therms All usage over 50 therms LDAC Gas Cost Adjustment: Cost of Gas	\$21.36 \$0.5870 \$0.5870 \$0.0576 \$0.0667 \$0.3975 \$0.3670	\$21.36 \$0.6446 <u>\$0.6537</u> \$0.6446 <u>\$0.6537</u>	\$21.36 \$1.0421 <u>\$1.0207</u> \$1.0421 <u>\$1.0207</u>
Residential Heating Low income Tariff Rate R 10: Monthly Customer Charge First 50 therms All usage over 50 therms LDAC Gas Cost Adjustment: Cost of Gas	\$8.54 \$0.2348 \$0.2348 \$0.0576 \$0.0667 \$0.3975 \$0.3670	\$8.54 \$0.2924 <u>\$0.3015</u> \$0.2924 <u>\$0.3015</u>	\$8.54 \$0.6899 <u>\$0.6685</u> \$0.6899 <u>\$0.6685</u>
Residential Non-Heating Tariff Rate R 6: Monthly Customer Charge First 10 therms All usage over 10 therms LDAC Gas Cost Adjustment: Cost of Gas	\$21.36 \$0.6227 \$0.6227 \$0.0576 \$0.0667 \$0.3975 \$0.3670	\$21.36 \$0.6803 <u>\$0.6894</u> \$0.6803 <u>\$0.6894</u>	\$21.36 \$1.0778 <u>\$1.0564</u> \$1.0778 <u>\$1.0564</u>

Issued:- ~~May 9, 2018~~ September 17, 2018

Effective Date: May 1, ~~2018~~ 2019

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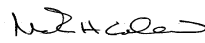
Title:

Senior Vice President

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

Winter Season November 2017 8 - April 2018 9	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter Tariff Rate G 40: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC Gas Cost Adjustment: Cost of Gas	\$67.45 \$72.26 \$0.1884 \$0.1795 \$0.1884 \$0.1795 \$0.0293 \$0.0396 \$0.8779 \$0.8424	\$67.45 \$72.26 \$0.2177 \$0.2191 \$0.2177 \$0.2191	\$67.45 \$72.26 \$1.0956 \$1.0615 \$1.0956 \$1.0615
C&I Low Annual/Low Winter Tariff Rate G 50: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC Gas Cost Adjustment: Cost of Gas	\$67.45 \$72.26 \$0.1884 \$0.1795 \$0.1884 \$0.1795 \$0.0293 \$0.0396 \$0.7767 \$0.7254	\$67.45 \$72.26 \$0.2177 \$0.2191 \$0.2177 \$0.2191	\$67.45 \$72.26 \$0.9944 \$0.9445 \$0.9944 \$0.9445
C&I Medium Annual/High Winter Tariff Rate G 41: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$196.73 \$214.26 \$0.2327 \$0.2334 \$0.0293 \$0.0396 \$0.8779 \$0.8424	\$196.73 \$214.26 \$0.2620 \$0.2730	\$196.73 \$214.26 \$1.1399 \$1.1154
C&I Medium Annual/Low Winter Tariff Rate G 51: Monthly Customer Charge First 1,300 therms All usage over 1,300 therms LDAC Gas Cost Adjustment: Cost of Gas	\$196.73 \$214.26 \$0.1749 \$0.1648 \$0.1467 \$0.1346 \$0.0293 \$0.0396 \$0.7767 \$0.7254	\$196.73 \$214.26 \$0.2042 \$0.2044 \$0.1760 \$0.1742	\$196.73 \$214.26 \$0.9809 \$0.9298 \$0.9527 \$0.8996
C&I High Annual/High Winter Tariff Rate G 42: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,124.19 \$1,285.55 \$0.1993 \$0.1909 \$0.0293 \$0.0396 \$0.8779 \$0.8424	\$1,124.19 \$1,285.55 \$0.2286 \$0.2305	\$1,124.19 \$1,285.55 \$1.1065 \$1.0729
C&I High Annual/Low Winter Tariff Rate G 52: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,124.19 \$1,285.55 \$0.1770 \$0.1655 \$0.0293 \$0.0396 \$0.7767 \$0.7254	\$1,124.19 \$1,285.55 \$0.2063 \$0.2051	\$1,124.19 \$1,285.55 \$0.9830 \$0.9305

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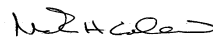
Issued by: 
Title: Senior Vice President

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

Summer Season May 2018 9 - October 2018 9	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter Tariff Rate G 40: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC Gas Cost Adjustment: Cost of Gas	\$72.26 \$0.1795 \$0.1795 \$0.0309 \$0.0380 \$0.4254 \$0.3958	\$72.26 \$0.2104 \$0.2175 \$0.2104 \$0.2175	\$72.26 \$0.6358 \$0.6133 \$0.6358 \$0.6133
C&I Low Annual/Low Winter Tariff Rate G 50: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC Gas Cost Adjustment: Cost of Gas	\$72.26 \$0.1795 \$0.1795 \$0.0309 \$0.0380 \$0.3543 \$0.3269	\$72.26 \$0.2104 \$0.2175 \$0.2104 \$0.2175	\$72.26 \$0.5647 \$0.5444 \$0.5647 \$0.5444
C&I Medium Annual/High Winter Tariff Rate G 41: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$214.26 \$0.1824 \$0.0309 \$0.0380 \$0.4254 \$0.3958	\$214.26 \$0.2133 \$0.2204	\$214.26 \$0.6387 \$0.6162
C&I Medium Annual/Low Winter Tariff Rate G 51: Monthly Customer Charge First 1,000 therms All usage over 1,000 therms LDAC Gas Cost Adjustment: Cost of Gas	\$214.26 \$0.1287 \$0.1046 \$0.0309 \$0.0380 \$0.3543 \$0.3269	\$214.26 \$0.1596 \$0.1667 \$0.1355 \$0.1426	\$214.26 \$0.5139 \$0.4936 \$0.4898 \$0.4695
C&I High Annual/High Winter Tariff Rate G 42: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,285.55 \$0.1161 \$0.0309 \$0.0380 \$0.4254 \$0.3958	\$1,285.55 \$0.1470 \$0.1541	\$1,285.55 \$0.5724 \$0.5499
C&I High Annual/Low Winter Tariff Rate G 52: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,285.55 \$0.0762 \$0.0309 \$0.0380 \$0.3543 \$0.3269	\$1,285.55 \$0.1071 \$0.1142	\$1,285.55 \$0.4614 \$0.4411

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VII. DELIVERY SERVICE TERMS AND CONDITIONS (continued)

14.3 Rates and Charges

14.3.1 The applicable rates for Peaking Service shall be established in the Company's tariff. The Supplier shall pay a peaking demand charge based on its MDPQ of assigned Peaking Capacity as billed by the Company for the Peak Season. Such unit demand charge shall be equal to the total Capacity costs and other fixed costs associated with the Company's peaking resources, excluding costs collected through Delivery rates, divided by the estimated peaking resources needed to meet the Company's total system Peak Day requirement. Effective November 1, 2018, Peaking Service demand charge shall exclude contracts not specified by the Company pursuant to Section 11.2 of these Delivery Service Terms and Conditions.

14.3.2 The Supplier shall pay a Commodity charge equal to the estimated weighted average cost of peaking supplies, including fuel retention and carrying charges. The Company shall communicate electronically, by facsimile or by other agreeable alternative means the Company's estimated weighted average cost of peaking supplies by the 15th of the month preceding the next Assignment Date. The Commodity charge assigned to Supplier in accordance with Section 14.3.1. will be multiplied by the volumes of Peaking Service Gas nominated by the Supplier during each Month

14.4 Peaking Supply

14.4.1 The Customer's portion of the Peaking Supply that shall be assigned to the Supplier on behalf of the Customer shall be equal to the Peaking Supply multiplied by the ratio of the Customer's MDPQ to the aggregate MDPQ of the total system.

14.4.2 On each Assignment Date, the Company shall assign Peaking Supply to a Supplier whose MDPQ has been increased pursuant to Part VII, Section 11.4. If the Company assigns incremental Peaking Supply to a Supplier, the Company shall credit the balance of the Supplier's Peaking Service Account for volumes available through October 31 in accordance with the Peaking Service Rule Curve. The amount credited to the Supplier's Peaking Service Account shall be determined by multiplying the incremental Peaking Supply by the peaking inventory percentage described in Part VII, Section 14.4.5.

14.4.3 On each Assignment Date, the Company shall recall Peaking Supply from a Supplier whose MDPQ has been decreased pursuant to Part VII, Section 11.7. The Company shall determine the Supplier's total Peaking Supply for recall to be equal to the difference between the cumulative total Peaking Supply assigned to the Supplier as of the previous Assignment

VII. DELIVERY SERVICE TERMS AND CONDITIONS

APPENDIX A

Schedule of Administrative Fees and Charges

I. Supplier Balancing Charge: ~~\$0.75-71~~ per MMBtu of Daily Imbalance Volumes

- Updated effective every November 1 to reflect the Company’s latest balancing resources and associated capacity costs.
- Daily Imbalance Volumes represent the difference between ATV and ATV adjusted for actual EDDs.

II. Peaking Service Demand Charge: ~~\$ 89.4750.35~~ per MMBtu per MDPQ per month for November ~~2017-2018~~ through April ~~2018~~ 2019.

- Updated effective every November 1 to reflect the Company’s Peaking resources and associated costs.

III. Company Allowance Calculation: ~~1.261.48~~ % - Provided in Attachment 3 to Schedule 10

IV. Supplier Services and Associated Fees:

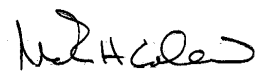
<u>SERVICE</u>	<u>PRICING</u>
Pool Administration (required) Non-Daily Metered Pools only	• \$0.10/month/customer billed @ marketer level
Standard Passthrough Billing (required)	• \$0.60/customer/month billed @ marketer level
Standard Complete Billing (optional – Passthrough Billing fee not required if this service is elected)	• \$1.50/customer/month billed @ marketer level
Customer Administration (required)	• \$10/customer/switch billed @ marketer level

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Effective: November 1, 20172018

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Senior Vice President

VII. DELIVERY SERVICE TERMS AND CONDITIONS

APPENDIX C

Capacity Allocators

Capacity Allocators shall be calculated and filed with the Commission each year with the Winter Cost of Gas filing. The following Capacity Allocators shall be applicable for capacity assignments during the period of November 1, 2017-2018 through October 31, 2018-2019.

Commercial and Industrial

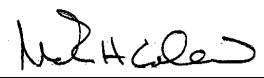
	<u>High Winter Use</u>	<u>Low Winter Use</u>
Pipeline:	<u>15.549.84%</u>	<u>60.1363.40%</u>
Storage:	<u>31.0936.42%</u>	<u>14.6714.79%</u>
Peaking:	<u>53.3753.74%</u>	<u>25.2021.81%</u>

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Senior Vice President

VII. DELIVERY SERVICE TERMS AND CONDITIONS (continued)

Appendix D

**Re-entry Surcharge and Conversion Surcharge
(continued)**

D. Information to be Filed with the Commission:

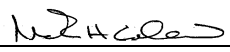
As part of the annual Cost of Gas filing, the Company shall file with the Commission a report showing the number of customers assessed the Re-entry Surcharge and the Conversion Surcharge and the amount of revenue received for each charge through the prior April 30. Pursuant to the Company’s Cost of Gas Clause, the Company will apply such revenues as credits to the Company’s New Hampshire Division Cost of Gas.

The following Re-entry Surcharge and Conversion Surcharge shall be applicable for the periods of November 1, ~~2017-2018~~ through April 30, ~~2018-2019~~ and May 1, ~~2018-2019~~ through October ~~2018-2019~~.

Effective Dates:	November 1, 2017 <u>2018</u> – April 30, 2018-2019	May 1, 2018-2019 – October 30, <u>2018-2019</u>
Re-entry Surcharge:	\$0. 0082-0000 per therm	\$0. 0085-0000 per therm
Conversion Surcharge, Low Load Factor (G-40, G-41, G-42):	\$0.0 0041510 per therm	\$0. 0085-000 per therm
Conversion Surcharge, High Load Factor (G-50, G-51, G-52):	\$0. 1522-1211 per therm	\$0. 0085-0000 per therm

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