

Northern Utilities, Inc.
New Hampshire Division
Winter Season 2011-2012 Cost of Gas

Tariff Sheets

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Rate Summary

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Northern Utilities, Inc.
New Hampshire Division
Winter Season 2011-2012 Cost of Gas

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<u>Pages</u>	<u>Revision</u>	<u>Proposed</u>
Supplement No. 1 Title	Original	
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11	Original	
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14	Original	
15	Original	
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18	Third Revised	
19	Third Revised	
20	Fourth Revised	
20.1	Original	
21	Third Revised	For Informational Purposes
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22	Second Revised	
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25	Second Revised	
26	Second Revised	
27	Second Revised	
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38	Forty-eight Revised	Forty-ninth Revised
39	Fifty-eighth Revised	Fifty-ninth Revised
40	Twenty-fourth Revised	
41	First Revised	
42	First Revised	
43	Second Revised	
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48	First Revised	
49	First Revised	
50	First Revised	
51	First Revised	
52	First Revised	
53	Second Revised	
54	Second Revised	
55	Second Revised	
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111	Original	
112	Original	
113	Original	
114	Original	
115	Original	
116	Original	
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121	First Revised	
122	First Revised	
122-a	Original	
123	Original	
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170-b	Third Revised	Forth Revised

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The title page and pages i-171 inclusive of this tariff are effective as of the date shown on the individual tariff pages.

Pages

Revision

Proposed

171

First Revised

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
WINTER SEASON RESIDENTIAL RATES

Winter Season November 2011 - April 2012		Tariff Rates (1)	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
Residential Heating	Tariff Rate R 5:			
	Monthly Customer Charge	\$9.50	\$9.50	\$9.50
	First 50 therms	\$0.4395	\$0.4819	\$1.5968
	All usage over 50 therms	\$0.3283	\$0.3707	\$1.4856
	LDAC	\$0.0424		
	Gas Cost Adjustment:			
	Cost of Gas	\$1.1149		
Residential Heating Low Income	Tariff Rate R 10:			
	Monthly Customer Charge	\$3.80	\$3.80	\$3.80
	First 50 therms	\$0.1934	\$0.2358	\$1.3507
	All usage over 50 therms	\$0.1489	\$0.1913	\$1.3062
	LDAC	\$0.0424		
	Gas Cost Adjustment:			
	Cost of Gas	\$1.1149		
Residential Non-Heating	Tariff Rate R 6:			
	Bi-monthly Customer Charge	\$19.00	\$19.00	\$19.00
	First 20 therms	\$0.4360	\$0.4784	\$1.5933
	All usage over 20 therms	\$0.3375	\$0.3799	\$1.4948
	Monthly Customer Charge	\$9.50	\$9.50	\$9.50
	First 10 therms	\$0.4360	\$0.4784	\$1.5933
	All usage over 10 therms	\$0.3375	\$0.3799	\$1.4948
	LDAC	\$0.0424		
	Gas Cost Adjustment:			
	Cost of Gas	\$1.1149		
Residential Non-Heating Low Income	Tariff Rate R 11:			
	Bi-monthly Customer Charge	\$13.80	\$13.80	\$13.80
	First 20 therms	\$0.3377	\$0.3801	\$1.4950
	All usage over 20 therms	\$0.2628	\$0.3052	\$1.4201
	Monthly Customer Charge	\$6.90	\$6.90	\$6.90
	First 10 therms	\$0.3377	\$0.3801	\$1.4950
	All usage over 10 therms	\$0.2628	\$0.3052	\$1.4201
	LDAC	\$0.0424		
	Gas Cost Adjustment:			
	Cost of Gas	\$1.1149		

Issued: September 15, 2011

Effective: With Service Rendered On and After November 1, 2011

Authorized by NHPUC Order No. , in Docket No. DG 11- , dated

Issued by:

Title:

, 2011.


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

Winter Season November 2011 - April 2012		Tariff Rates (1)	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	\$18.70	\$18.70	\$18.70
	First 75 therms	\$0.3370	\$0.3573	\$1.5050
	All usage over 75 therms	\$0.2300	\$0.2503	\$1.3980
	LDAC	\$0.0203		
<u>Gas Cost Adjustment:</u>				
Cost of Gas		\$1.1477		
C&I Low Annual/Low Winter	<u>Tariff Rate G 50:</u>			
	Monthly Customer Charge	\$18.70	\$18.70	\$18.70
	First 75 therms	\$0.3311	\$0.3514	\$1.3056
	All usage over 75 therms	\$0.2262	\$0.2465	\$1.2007
	LDAC	\$0.0203		
<u>Gas Cost Adjustment:</u>				
Cost of Gas		\$0.9542		
C&I Medium Annual/High Winter	<u>Tariff Rate G 41:</u>			
	Monthly Customer Charge	\$60.30	\$60.30	\$60.30
	All usage	\$0.2235	\$0.2438	\$1.3915
	LDAC	\$0.0203		
	<u>Gas Cost Adjustment:</u>			
Cost of Gas		\$1.1477		
C&I Medium Annual/Low Winter	<u>Tariff Rate G 51:</u>			
	Monthly Customer Charge	\$60.30	\$60.30	\$60.30
	First 1300 therms	\$0.2155	\$0.2358	\$1.1900
	All usage over 1300 therms	\$0.1760	\$0.1963	\$1.1505
	LDAC	\$0.0203		
<u>Gas Cost Adjustment:</u>				
Cost of Gas		\$0.9542		
C&I High Annual/High Winter	<u>Tariff Rate G 42:</u>			
	Monthly Customer Charge	\$254.00	\$254.00	\$254.00
	All usage	\$0.2018	\$0.2221	\$1.3698
	LDAC	\$0.0203		
	<u>Gas Cost Adjustment:</u>			
Cost of Gas		\$1.1477		
C&I High Annual/Low Winter	<u>Tariff Rate G 52:</u>			
	Monthly Customer Charge	\$254.00	\$254.00	\$254.00
	All usage	\$0.1555	\$0.1758	\$1.1300
	LDAC	\$0.0203		
	<u>Gas Cost Adjustment:</u>			
Cost of Gas		\$0.9542		

Issued: September 15, 2011
Effective: With Service Rendered On and After November 1, 2011
Authorized by NHPUC Order No. , in Docket No. DG 11 , dated , 2011.

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NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
WINTER SEASON DELIVERY RATES

Winter Season November 2011 - April 2012		Tariff Rates (1)	Total Delivery Rates (Includes LDAC)
C&I Low Annual/High Winter	<u>Tariff Rate T 40:</u>		
	Monthly Customer Charge	\$18.70	\$18.70
	First 75 therms	\$0.3370	\$0.3573
	All usage over 75 therms	\$0.2300	\$0.2503
LDAC		\$0.0203	
C&I Low Annual/Low Winter	<u>Tariff Rate T 50:</u>		
	Monthly Customer Charge	\$18.70	\$18.70
	First 75 therms	\$0.3311	\$0.3514
	All usage over 75 therms	\$0.2262	\$0.2465
LDAC		\$0.0203	
C&I Medium Annual/High Winter	<u>Tariff Rate T 41:</u>		
	Monthly Customer Charge	\$60.30	\$60.30
	All usage	\$0.2235	\$0.2438
LDAC		\$0.0203	
C&I Medium Annual/Low Winter	<u>Tariff Rate T 51:</u>		
	Monthly Customer Charge	\$60.30	\$60.30
	First 1300 therms	\$0.2155	\$0.2358
	All usage over 1300 therms	\$0.1760	\$0.1963
LDAC		\$0.0203	
C&I High Annual/High Winter	<u>Tariff Rate T 42:</u>		
	Monthly Customer Charge	\$254.00	\$254.00
	All usage	\$0.2018	\$0.2221
LDAC		\$0.0203	
C&I High Annual/Low Winter	<u>Tariff Rate T 52:</u>		
	Monthly Customer Charge	\$254.00	\$254.00
	All usage	\$0.1555	\$0.1758
LDAC		\$0.0203	
C&I Interruptible Transportation	<u>Tariff Rate IT:</u>		
	Monthly Customer Charge	\$170.21	\$170.21
	First 20,000 therms	\$0.1592	\$0.1592
	All usage over 20,000 therms	\$0.1401	\$0.1401

(1) Includes temporary rate adjustment of \$0.0293

Issued: September 15, 2011

Effective: With Service Rendered On and After November 1, 2011

Authorized by NHPUC Order No. , in Docket No. DG 11- , dated , 2011

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Anticipated Cost of Gas

New Hampshire Division

Period Covered: November 1, 2011 - April 30, 2012

(Col 1)	(Col 2)	(Col 3)
<u>ANTICIPATED DIRECT COST OF GAS</u>		
Purchased Gas:		
Demand Costs:	\$2,738,878	
Supply Costs:	\$7,934,188	
Storage & Peaking Gas:		
Demand, Capacity:	\$14,137,610	
Commodity Costs:	\$6,076,270	
Hedging (Gain)/Loss	\$506,830	
Interruptible Included Above	\$0	
Inventory Finance Charge	\$7,294	
Capacity Release, Asset Management, PNGTS Cost	(\$1,612,415)	
Total Anticipated Direct Cost of Gas		<u>\$29,788,653</u>
<u>ANTICIPATED INDIRECT COST OF GAS</u>		
Adjustments:		
Prior Period Under/(Over) Collection	\$973,628	
Interest	\$73,830	
Refunds	\$0	
<u>Interruptible Margins</u>	<u>\$0</u>	
Total Adjustments		\$1,047,458
Working Capital:		
Total Anticipated Direct Cost of Gas	\$29,788,654	
Working Capital Percentage	0.082%	
Working Capital Allowance	\$24,546	
Plus: Working Capital Reconciliation (Acct 182.11)	<u>(\$35,228)</u>	
Total Working Capital Allowance		(\$10,682)
Bad Debt:		
Projected Bad Debt	\$650,000	
Bad Debt Supply Portion (64%)	\$416,526	
Seasonal Bad Debt Portion (91%)	\$377,457	
Plus: Bad Debt Reconciliation (Acct 182.16)	\$1,935	
Total Bad Debt Allowance		\$379,392
Local Production and Storage Capacity		\$349,700
Miscellaneous Overhead-79.31% Allocated to Winter Season		\$349,601
Total Anticipated Indirect Cost of Gas		\$2,115,470
Total Cost of Gas		<u>\$31,904,124</u>

Issued: September 15, 2011

Effective Date: November 1, 2011

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CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: November 1, 2011 - April 30, 2012

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$29,788,654	
Projected Prorated Sales (11/01/11-04/30/12)	28,614,458	
Direct Cost of Gas Rate		\$1.0410 per therm
Demand Cost of Gas Rate	\$15,264,073	\$0.5334 per therm
Commodity Cost of Gas Rate	\$14,524,582	\$0.5076 per therm
Total Direct Cost of Gas Rate	\$29,788,654	\$1.0410 per therm
Total Anticipated Indirect Cost of Gas	\$2,115,470	
Projected Prorated Sales (11/01/11-04/30/12)	28,614,458	
Indirect Cost of Gas		\$0.0739 per therm
TOTAL PERIOD AVERAGE COST OF GAS		\$1.1149 per therm

RESIDENTIAL COST OF GAS RATE - 11/01/11	COGwr	\$1.1149 per therm
	Maximum (COG+25%)	\$1.3936

COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/11	COGwl	\$0.9542 per therm
	Maximum (COG+25%)	\$1.1928

C&I HLF DEMAND COSTS ALLOCATED PER SMBA	\$839,472
PLUS: RESIDENTIAL DEMAND RELOCATION TO C7I HLF	\$46,426
C&I HLF TOTAL ADJUSTED DEMAND COSTS	\$885,898
C&I HLF PROJECTED PRORATED SALES (11/01/11-04/30/12)	2,555,355
DEMAND COST OF GAS RATE	\$0.3467

C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$1,364,598
PLUS: RESIDENTIAL COMMODITY COSTS	(\$1,018)
C&I HLF TOTAL ADJUSTED COMMODITY COSTS	\$1,363,580
C&I HLF PROJECTED PRORATED SALES (11/01/11-04/30/12)	2,555,355
COMMODITY COST OF GAS RATE	\$0.5336

INDIRECT COST OF GAS	\$0.0739
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TOTAL C&I HLF COST OF GAS RATE	\$0.9542
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COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/11	COGwh	\$1.1477 per therm
	Maximum (COG+25%)	\$1.4346

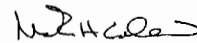
C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$6,784,383
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF	\$375,201
C&I LLF TOTAL ADJUSTED DEMAND COSTS	\$7,159,583
C&I LLF PROJECTED PRORATED SALES (11/01/11-04/30/12)	12,526,929
DEMAND COST OF GAS RATE	\$0.5715

C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$6,296,823
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF	(\$4,698)
C&I LLF TOTAL ADJUSTED COMMODITY COSTS	\$6,292,125
C&I LLF PROJECTED PRORATED SALES (11/01/11-04/30/12)	12,526,929
COMMODITY COST OF GAS RATE	\$0.5023

INDIRECT COST OF GAS	\$0.0739
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TOTAL C&I LLF COST OF GAS RATE	\$1.1477
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Issued: September 15, 2011
Effective Date: November 1, 2011
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Local Delivery Adjustment Clause

Rate Schedule	RLIAP	DSM	ERC	ITM	WLNG	CCE	RCE	LDAC
Residential Heating	\$0.0056	\$0.0315	\$0.0053	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0424
Residential Non-Heating	\$0.0056	\$0.0315	\$0.0053	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0424
Small C&I	\$0.0056	\$0.0094	\$0.0053	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0203
Medium C&I	\$0.0056	\$0.0094	\$0.0053	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0203
Large C&I	\$0.0056	\$0.0094	\$0.0053	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0203
No Previous Sales Service								

Issued: September 15, 2011

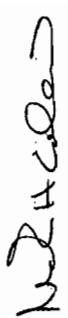
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VII. DELIVERY SERVICE TERMS AND CONDITIONS

APPENDIX A

Schedule of Administrative Fees and Charges

I. Supplier Balancing Charge: **\$0.78 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: **\$ 13.10per MMBtu** per MDPQ per month for November 2011 through April 2012.

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

III. Supplier Services and Associated Fees:

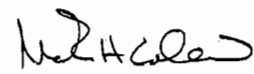
<u>SERVICE</u>	<u>PRICING</u>
Pool Administration (required) Non-Daily Metered Pools only	<ul style="list-style-type: none">• \$0.10/month/customer billed @ marketer level
Standard Passthrough Billing (required)	<ul style="list-style-type: none">• \$0.60/customer/month billed @ marketer level
Standard Complete Billing (optional – Passthrough Billing fee not required if this service is elected)	<ul style="list-style-type: none">• \$1.50/customer/month billed @ marketer level
Customer Administration (required)	<ul style="list-style-type: none">• \$10/customer/switch billed @ marketer level

Issued: September 15, 2011

Effective: November 1, 2011

Authorized by NHPUC Order No. _____ in Docket No. DG 10-____, dated _____.

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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, 2011 through October 31, 2012.

Commercial and Industrial

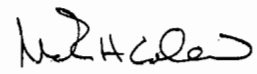
	<u>High Winter Use</u>	<u>Low Winter Use</u>
Pipeline:	17.47%	87.15%
Storage:	37.88%	5.90%
Peaking:	44.65%	6.95%

Issued: September 15, 2011

Effective: November 1, 2011

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VII. DELIVERY SERVICE TERMS AND CONDITIONS

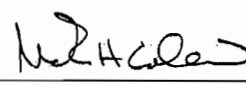
APPENDIX D

**Firm Sales Service Re-Entry Fee Bill Adjustment
(continued)**

The Re-Entry Fee shall be calculated and filed with the Commission each year with the Winter Cost of Gas filing. The following Firm Sales Service Re-Entry Fee Unit Charge shall be applicable for the period of November 1, 2011 through October 31, 2012.

Effective Dates:	November 1, 2011 – October 31, 2012
Annual Average Unit Cost:	\$ 405.94
25% - Annual Charge for Re-Entry Fee:	\$ 101.49
Monthly Unit Charge for Re-Entry Fee:	\$ 8.46

Issued: September 15, 2011

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Effective: November 1, 2011

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IV. COST OF GAS CLAUSE

- (21) **Summer Season** - The months May through October.
- (22) **Winter Commodity** - The gas supplies procured by the Company to serve firm load in the Winter Season.
- (23) **Winter Demand** - Gas supply demand, peaking demands, storage and transmission capacity procured by the Company to service firm load in the Winter Season.
- (24) **Winter Season** - The months November through April.
- (25) **Working Capital Carrying Charge Rate** - the monthly prime lending rate, as reported by the Federal Reserve Statistical Release of Selected Interest Rates.

6. **Cost of Gas Calculations by Customer Classification**6.1 **Approved Cost Figures**

The Cost of Gas calculation utilizes information periodically established by the New Hampshire Public Utilities Commission. The table below lists the approved cost factors:

<u>VARIABLE</u>	<u>DESCRIPTION</u>	<u>CURRENTLY APPROVED FIGURES</u>
MISC	Miscellaneous Overhead	\$ 440,825
PS	Production and Storage Capacity	\$349,700
WCA%	Working Capital Allowance Percentage	9.25/365*WCCCR

Where WCCCR = Working Capital Carrying Charge Rate

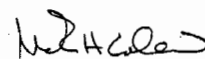
WCA% effective beginning August 1, 2011

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IV. COST OF GAS CLAUSE

NCCCw	Non-Core Commodity Costs incurred in the Winter Season as defined in Part IV, Section 5.
R1c, R2c	Supplier commodity-related refunds - The supplier refunds associated with refund program credits derived from Account 242, "Undistributed Gas Suppliers' Refunds". See Part IV, Section 8.
WCwc	Working Capital allowance Associated with commodity charges allocated to the Winter Season as defined in Part IV, Section 10.
WCA %	Ratio of Working Capital Allowance associated with gas costs to total direct gas costs. Refer to Part IV, Section 6.1 for this percentage.
WSC	Commodity charges associated with gas supply sent out in Winter Season as defined in Part IV, Section 5.

Winter Bad Debt (BDw) Formula

$$BDw = Dw + Cw + Rbdw$$

Where:

BDw	Bad Debt expense for Winter Season.
Dw, Cw	Estimated Bad Debt Demand and Commodity related costs in the Winter Season as previously defined.
Rbdw	Winter Season Bad Debt Expense reconciliation adjustment - Account 182.16 balance.

Residential Cost of Gas Winter Season (COGwr)

All residential firm sales customers will pay the same Cost of Gas for the Winter Season. The factor represents the total forecasted Winter Season average cost of gas rate. This factor is calculated according to the following formula:

IV. COST OF GAS CLAUSE

Rs	Reconciliation Costs - Account 191.10 balance, inclusive of the associated Account 191.10 interest, as outlined in Part IV, Section 9.
S:Sales	Forecasted sales volumes associated with the Summer Season.
WCA %	Ratio of working capital allowance associated with gas costs to total direct gas costs. Refer to Part IV, Section 6.1 for this percentage.
WCRs	Working Capital reconciliation adjustment associated with Summer gas costs – Account 182.21 as outlined in Part IV, Section 10.
WCsd	Working Capital allowable costs associated with demand costs allocated to the Summer Season as defined in Part IV, Section 10.

Summer Commodity Cost (Cs) Formula

$$Cs = SSC - NCCCs + WCsc - R1c - R2c$$

and: $WCsc = (SSC - NCCCs) \times WCA\%$

Where:

Cs	Allowable commodity costs for the Summer Season.
NCCCs	Non-core commodity costs incurred in the Summer Season as defined in Part IV, Section 5.
R1c, R2c	Supplier refunds from pipeline commodity charges - The supplier refunds associated with refund program credits derived from Account 242, "Undistributed Gas Suppliers' Refunds."
SSC	Commodity charges associated with gas supply sent out in the Summer Season as defined in Part IV, Section 5.
WCA%	Ratio of working capital allowance associated with gas costs to total direct gas costs. Refer to Part IV, Section 6.1 for this percentage.
WCsc	Working Capital allowable costs associated with commodity charges allocated to the Summer Season as defined in Part IV, Section 10.

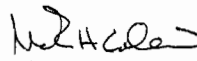
Summer Bad Debt (BDs) Formula

$$BDs = (Ds + Cs + Rbds)$$

Where:

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Treasurer

IV. COST OF GAS CLAUSE

BDs	Forecasted gas supply related Bad Debt Expense calculated for Summer Season defined in Part IV, Section 5 plus the Summer Season Bad Debt Expense Reconciliation.
Ds, Cs	Estimated Bad Debt Demand and Commodity related costs in the Summer Season as previously defined.
Ds	Demand related costs in the Summer Season as previously defined.
Rbds	Summer Season Bad Debt Expense reconciliation adjustment - Account 182.22 balance.

Residential Cost of Gas Summer Season (COGsr)

All residential firm sales customers will pay the same cost of gas for the Summer Season. The factor represents the total forecasted Summer Season average cost of gas rate. This factor is calculated according to the following formula:

$$\text{COGsr} = \frac{\text{CGs}}{\text{S:Sales}}$$

Where:

CGs	The total cost of gas for the Summer Season for the Company's firm sales customers as previously defined.
r	Designates the Residential Heating and Residential Non-Heating customer classes.
S:Sales	Total Forecasted firm sales volumes associated with the Summer Season.

Commercial and Industrial Summer Season Cost of Gas

The Commercial and Industrial customer groups' Summer Season Cost of Gas will be based on the SMBA method of allocating gas costs to each of the two Commercial and Industrial load factor based customer groups: Rates G-50, G-51 and G-52 high load factor or Low Winter Use and Rates G-40, G-41 and G-42 low load factor or High Winter Use.

IV. COST OF GAS CLAUSE

- i. Charges associated with transmission capacity and product demand procured by the Company to serve firm load in the Summer Season.
 - ii. Charges associated with administrative and general expenses in connection with purchasing gas supplies allocated to firm sales service and allocated to the Summer Season. These expenses are from the test year of the Company's most recent rate proceeding.
 - iii. Credits associated with daily imbalance charges and the fixed component of penalty charges billed Delivery Service customers in the Summer Season.
 - iv. Summer Season demand cost Carrying Charges.
- d. **Gas Costs Allowable Per Summer Season Formula** shall be:
- i. Charges associated with gas supplies, including any applicable taxes, procured by the Company to serve firm load in the Summer Season.
 - ii. Credit Non-core commodity costs associated with non-core sales to which the COG is not applied, as defined in Part IV, Section 5.
 - iii. Summer Season commodity cost Carrying Charges.
- e. **Costs Allowable Per Bad Debt Formula** shall be:
- i. Costs associated with uncollected gas costs, incurred by the Company to serve sales load in the Winter and Summer Seasons. Such costs represent the bad debt expense related to the gas supply related write-off of sales customers. The reconciliation adjustment each season will be computed as the difference between the previous year's actual bad debt expense related to gas supply for the same season and the actual bad debt revenues collected related to gas supply for that season.
 - ii. Account 182.16 - Winter Season Bad Debt, reconciliation adjustment.
 - iii. Account 182.22 - Summer Season Bad Debt reconciliation adjustment.

(2) Calculation of the Reconciliation Adjustments

Account 191 contains the accumulated difference between gas cost revenues and the actual monthly gas costs incurred by the Company. The Company shall separate Account 191 into Winter Season Gas Costs (Account 191.20) and

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
SUMMER WINTER SEASON RESIDENTIAL RATES

<u>Summer Winter Season</u> <u>May November 2011 - October April 2012</u>		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	\$9.50 \$0.4395 \$0.3283 0.0456 0.0424 <u>\$0.55701.1149</u>	\$9.50 \$0.4819 \$0.3707	\$9.50 \$1.0424 <u>1.5968</u> \$0.0309 <u>1.4856</u>
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	\$3.80 \$0.1934 \$0.1489 0.0456 0.0424 <u>\$0.55701.1149</u>	\$3.80 \$0.2358 \$0.1913	\$3.80 \$0.7960 <u>1.3507</u> \$0.7545 <u>1.3062</u>
Residential Non-Heating	<u>Tariff Rate R 6:</u> Bi-monthly Customer Charge First 20 therms All usage over 20 therms Monthly Customer Charge First 10 therms All usage over 10 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$19.00 \$0.4360 \$0.3375 \$9.50 \$0.4360 \$0.3375 0.0456 0.0424 <u>\$0.55701.1149</u>	\$19.00 \$0.4784 \$0.3799 \$9.50 \$0.4784 \$0.3799	\$19.00 \$1.0386 <u>1.5933</u> \$0.9404 <u>1.4948</u> \$9.50 \$1.0386 <u>1.5933</u> \$0.9404 <u>1.4948</u>
Residential Non-Heating Low Income	<u>Tariff Rate R 11:</u> Bi-monthly Customer Charge First 20 therms All usage over 20 therms Monthly Customer Charge First 10 therms All usage over 10 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$13.80 \$0.3377 \$0.2628 \$6.90 \$0.3377 \$0.2628 0.0456 0.0424 <u>\$0.55701.1149</u>	\$13.80 \$0.3801 \$0.3052 \$6.90 \$0.3801 \$0.3052	\$13.80 \$0.9403 <u>1.4950</u> \$0.8654 <u>1.4201</u> \$6.90 \$0.9403 <u>1.4950</u> \$0.9404 <u>1.4201</u>

Issued: ~~August 25~~September 15, 2011

Effective: With Service Rendered On and After ~~September 4~~November 1, 2011

Authorized by NHPUC Order No. 25,245, in Docket No. DG 11-045, dated ~~April 29~~, 2011.

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NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION

-SUMMER WINTER SEASON C&I RATES

Summer Winter Season May-November 2011 - October April 2012		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 <u>Gas Cost Adjustment:</u> Cost of Gas	 \$18.70 \$0.3370 \$0.2300 \$0.0249 0.0203 <u>\$0.61341.1477</u>	 \$18.70 \$0.3573 \$0.2503 	 \$18.70 \$0.97501.5050 \$0.86801.3980
C&I Low Annual/Low Winter	Tariff Rate G 50: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	 \$18.70 \$0.3311 \$0.2262 \$0.0249 0.0203 <u>\$0.48720.9542</u>	 \$18.70 \$0.3514 \$0.2465 	 \$18.70 \$0.84321.3056 \$0.73831.2007
C&I Medium Annual/High Wi	Tariff Rate G 41: Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	 \$60.30 \$0.1447 0.2235 \$0.0249 0.0203 <u>\$0.61341.1477</u>	 \$60.30 \$0.2438 	 \$60.30 \$0.77971.3915
C&I Medium Annual/Low Wi	Tariff Rate G 51: Monthly Customer Charge First 4000 1300 therms All Usage Over 4000 1300 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	 \$60.30 \$0.1405 0.2155 \$0.1073 0.176 \$0.0249 0.0203 <u>\$0.48720.9542</u>	 \$60.30 \$0.2358 \$0.1963 	 \$60.30 \$0.65261.1900 \$0.61941.1505
C&I High Annual/High Winte	Tariff Rate G 42: Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	 \$254.00 \$0.1257 0.2018 \$0.0249 0.0203 <u>\$0.61341.1477</u>	 \$254.00 \$0.2221 	 \$254.00 \$0.76371.3698
C&I High Annual/Low Winter	Tariff Rate G 52: Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	 \$254.00 \$0.0946 0.1555 \$0.0249 0.0203 <u>\$0.48720.9542</u>	 \$254.00 \$0.1758 	 \$254.00 \$0.60671.1300

Issued: August-25-November 1, 2011

Effective: With Service Rendered On and After September-November 1, 2011

Authorized by NHPUC Order No. 25,245, in Docket No. DG 11-045, dated April-29, 2011.

Issued by:

Title:

Treasurer

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION

~~SUMMER~~ WINTER SEASON DELIVERY RATES

Summer Winter Season May November 2011 - October April 2012		Tariff Rates (1)	Total Delivery Rates (Includes LDAC)
C&I Low Annual/High Winter	<u>Tariff Rate T 40:</u> Monthly Customer Charge First 75 therms All usage over 75 therms LDAC	\$18.70 <u>\$0.3370</u> <u>\$0.2300</u> \$0.0249 0.0203	\$18.70 <u>\$0.3573</u> <u>\$0.2503</u>
C&I Low Annual/Low Winter	<u>Tariff Rate T 50:</u> Monthly Customer Charge First 75 therms All usage over 75 therms LDAC	\$18.70 <u>\$0.3311</u> <u>\$0.2262</u> \$0.0249 0.0203	\$18.70 <u>\$0.3514</u> <u>\$0.2465</u>
C&I Medium Annual/High Winter	<u>Tariff Rate T 41:</u> Monthly Customer Charge All usage LDAC	\$60.30 0.14170.2235 \$0.0249 0.0203	\$60.30 0.1666 0.2438
C&I Medium Annual/Low Winter	<u>Tariff Rate T 51:</u> Monthly Customer Charge First 4000 1300 therms All usage over 4000 1300 therms LDAC	\$60.30 <u>\$0.1862\$0.2155</u> <u>\$0.1467\$0.176</u> \$0.0249 0.0203	\$60.30 <u>\$0.1361\$0.2358</u> <u>\$0.1029\$0.1963</u>
C&I High Annual/High Winter	<u>Tariff Rate T 42:</u> Monthly Customer Charge All usage LDAC	\$254.00 \$0.1725\$0.2018 \$0.0249 0.0203	\$254.00 \$0.1213\$0.2221
C&I High Annual/Low Winter	<u>Tariff Rate T 52:</u> Monthly Customer Charge All usage LDAC	\$254.00 \$0.12620.1555 \$0.0249 0.0203	\$254.00 \$0.0902\$0.1758
C&I Interruptible Transportation	<u>Tariff Rate IT:</u> Monthly Customer Charge First 20,000 therms All usage over 20,000 therms	\$170.21 <u>\$0.1299\$0.1592</u> <u>\$0.1108\$0.1401</u>	\$170.21 <u>\$0.1299\$0.1592</u> <u>\$0.1108\$0.1401</u>

(1) Includes temporary rate adjustment of \$0.0293

Issued: ~~July 28~~ November 1, 2011

Effective: With Service Rendered On and After August November 1, 2011

Authorized by NHPUC Order No. 25,252, in Docket No. 11-069, dated July 22, 2011

Issued by:

Title:

Treasurer

Anticipated Cost of Gas

New Hampshire Division

Period Covered: ~~May 4, 2011~~ November 1, 2011 - ~~October 31~~ April 30, 2011

(Col 1)

(Col 2)

(Col 3)

ANTICIPATED DIRECT COST OF GAS

Purchased Gas:

Demand Costs:	\$ 497,292	\$ 2,738,878
Supply Costs:	\$ 3,441,624	\$ 7,934,188

Storage & Peaking Gas:

Demand, Capacity:	\$ 704,178	\$ 14,137,610
Commodity Costs:	\$ 25,186	\$ 6,076,270

Hedging (Gain)/Loss

\$ 72,585	\$ 506,830
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Interruptible Included Above

\$	\$ -
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Inventory Finance Charge

\$	\$ 7,294
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Capacity Release

\$	\$ (1,612,415)
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Total Anticipated Direct Cost of Gas

\$ 4,737,763	\$ 29,788,654
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ANTICIPATED INDIRECT COST OF GAS

Adjustments:

Prior Period Under/(Over) Collection	\$ 124,276	\$ 973,628
NHPUC Consultant Costs	\$ 28,999	\$ 73,830
Interest	\$ 2,160	\$ -
Refunds	\$	\$ -
<u>Interruptible Margins</u>	\$	\$ -
Total Adjustments	\$ 155,445	\$ 1,047,458

Working Capital:

Total Anticipated Direct Cost of Gas	\$ 4,737,762	\$ 29,788,654
Working Capital Percentage	0.056%	0.082%
Working Capital Allowance	\$ 2,670	\$ 24,546
Plus: Working Capital Reconciliation (Acct 182.11)	\$ (7,494)	\$ (35,228)
Total Working Capital Allowance	\$ (4,824)	\$ (10,682)

Bad Debt:

Total Anticipated Direct Cost of Gas	\$ 4,737,762
Plus: Prior Period Under/(Over) Collection	\$ 124,276
Plus: Total Working Capital	\$ (4,824)
Subtotal	\$ 4,857,216
Bad Debt Percentage	0.450%
Bad Debt Allowance	\$ 21,867
Plus: Bad Debt Reconciliation (Acct 182.16)	\$ 3,169

Projected Bad Debt	\$ 650,000
Bad Debt Supply Portion (64%)	\$ 416,526
Seasonal Bad Debt Portion (91%)	\$ 377,457
Plus: Bad Debt Reconciliation (Acct 182.16)	\$ 1,935
Total Bad Debt Allowance	\$ 25,016

Local Production and Storage Capacity

\$	\$ 349,700
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Miscellaneous Overhead-25.15% Allocated to Winter Season

\$ 25,964	\$ 349,601
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Total Anticipated Indirect Cost of Gas

\$ 201,572	\$ 2,115,470
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Total Cost of Gas

\$ 4,939,336	\$ 31,904,124
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Issued: ~~March 15, 2011~~ September 15, 2011
Effective Date: ~~May 4, 2011~~ November 1, 2011

Issued By: _____
Treasurer

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: May 4, 2010 – October 31, 2010 November 1, 2010 - April 30, 2011

(Col 1)	(Col 2)	(Col 3)	
Total Anticipated Direct Cost of Gas	\$ 4,737,762	\$29,788,654	
Projected Prorated Sales (05/01/10 – 10/31/10 - 11/1/11 - 04/30/12)	7,400,662	28,614,458	
Direct Cost of Gas Rate		\$ 0.6402	\$1.0410 per therm
Demand Cost of Gas Rate	\$ 1,198,470	\$15,264,073	\$ 0.1649 \$0.5334 per therm
Commodity Cost of Gas Rate	\$ 3,539,292	\$14,524,582	\$ 0.4782 \$0.5076 per therm
Total Direct Cost of Gas Rate	\$ 4,737,763	\$29,788,654	\$ 0.6404 \$1.0410 per therm
Total Anticipated Indirect Cost of Gas	\$ 201,672	\$2,115,470	
Projected Prorated Sales (05/01/10 – 10/31/10 - 11/1/11 - 04/30/12)	7,400,662	28,614,458	
Indirect Cost of Gas		\$ 0.0272	\$0.0739 per therm
TOTAL PERIOD AVERAGE COST OF GAS		\$ 0.6673	\$1.1149 per therm
Period Ending Over-collection as determined on 06/24/11	\$ (391,826)		
PROJECTED SALES (7/01/11 – 10/31/11)	5,755,456		
PER UNIT CHANGE IN COST OF GAS (7/01/10 – 10/31/11)	\$ (0.0681)		
Period Ending Under-collection as determined on 07/22/11	268,935		
PROJECTED SALES (8/01/11 – 10/31/11)	3,883,054.0000		
PER UNIT CHANGE IN COST OF GAS (8/01/10 – 10/31/11)	\$ 0.0693		
Period Ending Under-collection as determined on 08/25/11	\$ (327,130.0000)		
PROJECTED SALES (9/01/11 – 10/31/11)	2,934,617.4122		
PER UNIT CHANGE IN COST OF GAS (9/01/10 – 10/31/11)	\$ (0.1118)		

- 1 Over-collection w/o rate adjustment as contained in NUI's COG Report dated June 24, 2011
2 Under-collection w/o rate adjustment as contained in NUI's COG Report dated July 22, 2011
3 Under-collection w/o rate adjustment as contained in NUI's COG Report dated August 24, 2011

RESIDENTIAL COST OF GAS RATE - 09/01/11/01/11	COGwr	\$ 0.7280	\$1.1149 per therm
	Maximum (COG+25%)	\$ 0.9181	\$1.3936
RESIDENTIAL COST OF GAS RATE - 05/01/10		\$ 0.6545	
CHANGE IN PER UNIT COST		\$ (0.0676)	
RESIDENTIAL COST OF GAS RATE - 06/01/10		\$ 0.5869	
CHANGE IN PER UNIT COST		\$ 0.1311	
RESIDENTIAL COST OF GAS RATE - 07/01/10		\$ 0.7280	
COM/IND LOW WINTER USE COST OF GAS RATE - 09/01/11/01/11	COGwl	\$ 0.6840	\$0.9542 per therm
	Maximum (COG+25%)	\$ 0.7594	\$1.1928
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/10		\$ 0.6075	
CHANGE IN PER UNIT COST		\$ (0.0576)	
COM/IND LOW WINTER USE COST OF GAS RATE - 06/01/10		\$ 0.5499	
CHANGE IN PER UNIT COST		\$ 0.1311	
COM/IND LOW WINTER USE COST OF GAS RATE - 07/01/10		\$ 0.6840	
C&I HLF Demand Costs Allocated per SMBA	\$839,472		
PLUS: Residential Demand Relocation to C&I HLF	\$48,426		
C&I HLF Total Adjusted Demand Costs	\$887,898		
C&I HLF Projected Prorated Sales (11/01/10-04/20/11)	2,555,355		
Demand Cost of Gas Rate	\$0.3467		
C&I HLF Commodity Costs Allocated per SMBA	\$1,364,598		
PLUS: Residential Commodity Reallocation to C&I HLF	(\$1,018)		
C&I HLF Total Adjusted Commodity Costs	\$1,363,580		
C&I HLF Projected Prorated Sales (11/01/10-04/30/11)	2,555,355		
Commodity Cost of Gas Rate	\$0.5336		
Indirect Cost of Gas	\$0.0739		
Total C&I HLF Cost of Gas Rate	\$0.9542		
COM/IND HIGH WINTER USE COST OF GAS RATE - 09/01/11/01/11	COGwh	\$ 0.7640	\$1.1477 per therm
	Maximum (COG+25%)	\$ 0.9631	\$1.4346
COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/10		\$ 0.6905	
CHANGE IN PER UNIT COST		\$ (0.0576)	
COM/IND HIGH WINTER USE COST OF GAS RATE - 06/01/10		\$ 0.6329	
CHANGE IN PER UNIT COST		\$ 0.1311	
COM/IND HIGH WINTER USE COST OF GAS RATE - 07/01/10		\$ 0.7640	
C&I LLF Demand Costs Allocated per SMBA	\$6,784,383		
PLUS: Residential Demand Reallocation to C&I LLF	\$375,201		
C&I LLF Total Adjusted Demand Costs	\$7,159,583		
C&I LLF Projected Prorated Sales (11/01/10-04/30/11)	12,526,929		
Demand Cost of Gas Rate	\$0.5715		
C&I LLF Commodity Costs Allocated per SMBA	\$6,296,823		
PLUS: Residential Commodity Reallocation to C&I LLF	(\$4,698)		
C&I LLF Total Adjusted Commodity Costs	\$6,292,125		
C&I LLF Projected Prorated Sales (11/01/10-04/30/11)	12,526,929		
Commodity Cost of Gas Rate	\$0.5023		
Indirect Cost of Gas	\$0.0739		
Total C&I LLF Cost of Gas Rate	\$1.1477		

Local Delivery Adjustment Clause

Rate Schedule	RLIAP	DSM	ERC	ITM	W LNG	CCE	RCE	LDAC
Residential Heating	-\$0.0043-\$0.0056	-\$0.0359 \$0.0315	-\$0.0054-\$0.0053	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0456-\$0.0424
Residential Non-Heating	-\$0.0043-\$0.0056	-\$0.0359 \$0.0315	-\$0.0054-\$0.0053	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0456-\$0.0424
Small C&I	-\$0.0043-\$0.0056	-\$0.0452 \$0.0094	-\$0.0054-\$0.0053	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0249-\$0.0203
Medium C&I	-\$0.0043-\$0.0056	-\$0.0452 \$0.0094	-\$0.0054-\$0.0053	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0249-\$0.0203
Large C&I	-\$0.0043-\$0.0056	-\$0.0452 \$0.0094	-\$0.0054-\$0.0053	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0249-\$0.0203
No Previous Sales Service								

Issued: October 14, 2010 September 15, 2011

Effective: With Service Rendered On and After November 1, 2010 2011

Authorized by NHPUC Order No. _____ in Docket N. DG-10-11-, dated _____, 2010 2011

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Treasurer

VII. DELIVERY SERVICE TERMS AND CONDITIONS

APPENDIX A

Schedule of Administrative Fees and Charges

I. Supplier Balancing Charge: **\$0.758 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: **\$ 17.68-13.10 per MMBtu** per MDPQ per month for November 2011 through April 2012.

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

III. Supplier Services and Associated Fees:

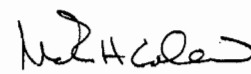
<u>SERVICE</u>	<u>PRICING</u>
Pool Administration (required) Non-Daily Metered Pools only	• \$0.10/month/customer billed @ marketer level
Standard Passthrough Billing (required)	• \$0.60/customer/month billed @ marketer level
Standard Complete Billing (optional – Passthrough Billing fee not required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

Issued: September 15, 2010

Effective: November 1, 2010

Authorized by NHPUC Order No. _____ in Docket No. DG 10-____, dated _____.

Issued by:



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VII. DELIVERY SERVICE TERMS AND CONDITIONS

APPENDIX C

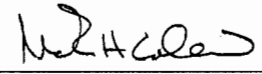
Capacity Allocators

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, 20110 through October 31, 20124.

Commercial and Industrial

	<u>High Winter Use</u>	<u>Low Winter Use</u>
Pipeline:	6.89 <u>17.47</u> %	64.97 <u>87.15</u> %
Storage:	33.75 <u>37.88</u> %	12.70 <u>5.90</u> %
Peaking:	59.37 <u>44.65</u> %	22.34 <u>6.95</u> %

Issued: September 15, 20101

Issued by: 

Effective: November 1, 20101

Treasurer

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VII. DELIVERY SERVICE TERMS AND CONDITIONS

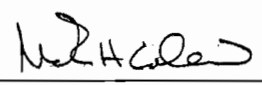
APPENDIX D

**Firm Sales Service Re-Entry Fee Bill Adjustment
(continued)**

The Re-Entry Fee shall be calculated and filed with the Commission each year with the Winter Cost of Gas filing. The following Firm Sales Service Re-Entry Fee Unit Charge shall be applicable for the period of November 1, 2011 through October 31, 2012.

Effective Dates:	November 1, 201<u>1</u> – October 31, 201<u>2</u>
Annual Average Unit Cost:	\$ 311.63 <u>405.94</u>
25% - Annual Charge for Re-Entry Fee:	\$ 77.91 <u>101.49</u>
Monthly Unit Charge for Re-Entry Fee:	\$ 4.82 <u>8.46</u>

Issued: September 15, 2011

Issued by: 

Treasurer

Effective: November 1, 2011

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IV. COST OF GAS CLAUSE

- (21) **Summer Season** - The months May through October.
- (22) **Winter Commodity** - The gas supplies procured by the Company to serve firm load in the Winter Season.
- (23) **Winter Demand** - Gas supply demand, peaking demands, storage and transmission capacity procured by the Company to service firm load in the Winter Season.
- (24) **Winter Season** - The months November through April.
- (25) **Working Capital Carrying Charge Rate** - the monthly prime lending rate, as reported by the Federal Reserve Statistical Release of Selected Interest Rates.

6.6. Cost of Gas Calculations by Customer Classification**6.1 Approved Cost Figures**

The Cost of Gas calculation utilizes information periodically established by the New Hampshire Public Utilities Commission. The table below lists the approved cost factors:

<u>VARIABLE</u>	<u>DESCRIPTION</u>	<u>CURRENTLY APPROVED FIGURES</u>
MISC	Miscellaneous Overhead	\$124,297 440,825
PS	Production and Storage Capacity	\$686,673 349,700
WCA%	Working Capital Allowance Percentage	6.339.25/365*WCCCR
BD%	Bad Debt Percentage	0.45%

Where WCCCR = Working Capital Carrying Charge Rate

WCA% effective beginning ~~November 1, 2008~~ August 1, 2011

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IV. COST OF GAS CLAUSE

NCCCw	Non-Core Commodity Costs incurred in the Winter Season as defined in Part IV, Section 5.
R1c, R2c	Supplier commodity-related refunds - The supplier refunds associated with refund program credits derived from Account 242, "Undistributed Gas Suppliers' Refunds". See Part IV, Section 8.
WCwc	Working Capital allowance Associated with commodity charges allocated to the Winter Season as defined in Part IV, Section 10.
WCA %	Ratio of Working Capital Allowance associated with gas costs to total direct gas costs. Refer to Part IV, Section 6.1 for this percentage.
WSC	Commodity charges associated with gas supply sent out in Winter Season as defined in Part IV, Section 5.

Winter Bad Debt (BDw) Formula

$$BDw = \text{BD}\% \times (Dw + Cw + \text{Rw} + \text{WCRw}) + \text{Rbdw}$$

Where:

BD%	Percentage of direct gas costs representing total bad debt expense associated with the COG. Refer to Part IV, Section 6.1 for this percentage.
BDw	Bad Debt expense for Winter Season.
<u>Dw, Cw</u>	<u>Estimated Bad Debt Demand and</u> Commodity related costs in the Winter Season as previously defined.
Dw	Demand related costs in the Winter Season as previously defined.
Rbdw	Winter Season Bad Debt Expense reconciliation adjustment - Account 182.16 balance.
Rw	Reconciliation Costs - Winter Season deferred gas costs as previously defined.
WCRw	Winter Season Working Capital Reconciliation adjustment as previously defined.

Residential Cost of Gas Winter Season (COGwr)

All residential firm sales customers will pay the same Cost of Gas for the Winter Season. The factor represents the total forecasted Winter Season average cost of gas rate. This factor is calculated according to the following formula:

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IV. COST OF GAS CLAUSE

Rs Reconciliation Costs - Account 191.10 balance, inclusive of the associated Account 191.10 interest, as outlined in Part IV, Section 9.

S:Sales Forecasted sales volumes associated with the Summer Season.

WCA % Ratio of working capital allowance associated with gas costs to total direct gas costs. Refer to Part IV, Section 6.1 for this percentage.

WCRs Working Capital reconciliation adjustment associated with Summer gas costs – Account 182.21 as outlined in Part IV, Section 10.

WCsd Working Capital allowable costs associated with demand costs allocated to the Summer Season as defined in Part IV, Section 10.

Summer Commodity Cost (Cs) Formula

$$Cs = SSC - NCCCs + WCsc - R1c - R2c$$

and: $WCsc = (SSC - NCCCs) \times WCA\%$

Where:

Cs Allowable commodity costs for the Summer Season.

NCCCs Non-core commodity costs incurred in the Summer Season as defined in Part IV, Section 5.

R1c, R2c Supplier refunds from pipeline commodity charges - The supplier refunds associated with refund program credits derived from Account 242, "Undistributed Gas Suppliers' Refunds."

SSC Commodity charges associated with gas supply sent out in the Summer Season as defined in Part IV, Section 5.

WCA% Ratio of working capital allowance associated with gas costs to total direct gas costs. Refer to Part IV, Section 6.1 for this percentage.

WCsc Working Capital allowable costs associated with commodity charges allocated to the Summer Season as defined in Part IV, Section 10.

Summer Bad Debt (BDs) Formula

$$BDs = BD\% \times (Ds + Cs + R1c + WCRs) + Rbds$$

Where:

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IV. COST OF GAS CLAUSE

BD%	Gas Supply related bad debt expense for firm sales service divided by direct gas costs. Refer to Part IV, Section 6.1 for this percentage.
BDs	Forecasted gas supply related Bad Debt Expense calculated for Summer Season defined in Part IV, Section 5 plus the Summer Season Bad Debt Expense Reconciliation.
<u>Ds, Cs</u>	<u>Estimated Bad Debt Demand and</u> Commodity related costs in the Summer Season as previously defined.
Ds	Demand related costs in the Summer Season as previously defined.
Rbds	Summer Season Bad Debt Expense reconciliation adjustment - Account 182.22 balance.
Rs	Reconciliation Costs Summer deferred gas costs as previously defined.
WCRs	Summer Season Working Capital Reconciliation adjustment as previously defined.

Residential Cost of Gas Summer Season (COGsr)

All residential firm sales customers will pay the same cost of gas for the Summer Season. The factor represents the total forecasted Summer Season average cost of gas rate. This factor is calculated according to the following formula:

$$\text{COGsr} = \frac{\text{CGs}}{\text{S:Sales}}$$

Where:

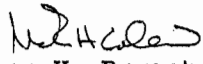
CGs	The total cost of gas for the Summer Season for the Company's firm sales customers as previously defined.
r	Designates the Residential Heating and Residential Non-Heating customer classes.
S:Sales	Total Forecasted firm sales volumes associated with the Summer Season.

Commercial and Industrial Summer Season Cost of Gas

The Commercial and Industrial customer groups' Summer Season Cost of Gas will be based on the SMBA method of allocating gas costs to each of the two Commercial and Industrial load factor based customer groups: Rates G-50, G-51 and G-52 high load factor or Low Winter Use and Rates G-40, G-41 and G-42 low load factor or High Winter Use.

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IV. COST OF GAS CLAUSE

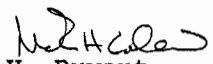
- i. Charges associated with transmission capacity and product demand procured by the Company to serve firm load in the Summer Season.
 - ii. Charges associated with administrative and general expenses in connection with purchasing gas supplies allocated to firm sales service and allocated to the Summer Season. These expenses are from the test year of the Company's most recent rate proceeding.
 - iii. Credits associated with daily imbalance charges and the fixed component of penalty charges billed Delivery Service customers in the Summer Season.
 - iv. Summer Season demand cost Carrying Charges.
- d. **Gas Costs Allowable Per Summer Season Formula** shall be:
- i. Charges associated with gas supplies, including any applicable taxes, procured by the Company to serve firm load in the Summer Season.
 - ii. Credit Non-core commodity costs associated with non-core sales to which the COG is not applied, as defined in Part IV, Section 5.
 - iii. Summer Season commodity cost Carrying Charges.
- e. **Costs Allowable Per Bad Debt Formula** shall be:
- i. Costs associated with uncollected gas costs, incurred by the Company to serve sales load in the Winter and Summer Seasons. Such costs represent the bad debt expense related to the gas supply related write-off of sales customers and will be computed by multiplying actual gas costs by a fixed percentage as provided in Part IV, Section 6.1. The reconciliation adjustment each season will be computed as the difference between the previous year's estimated-actual bad debt expense related to gas supply for the same season and the actual bad debt revenues collected related to gas supply gas costs for that season multiplied by the bad debt percentage in Part IV, Section 6.1.
 - ii. Account 182.16 - Winter Season Bad Debt, reconciliation adjustment.
 - iii. Account 182.22 - Summer Season Bad Debt reconciliation adjustment.

(2) Calculation of the Reconciliation Adjustments

Account 191 contains the accumulated difference between gas cost revenues and the actual monthly gas costs incurred by the Company. The Company shall separate Account 191 into Winter Season Gas Costs (Account 191.20) and

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