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Issued in compliance with NHPUC Order No. 25,958 dated October 26, 2016 in Docket No. DG 16-814.

I. GENERAL TERMS AND CONDITIONS

16 - COST OF GAS CLAUSE

- 16(D) Effective Date of Cost of Gas Factor. The seasonal Cost of Gas Factor (“COG”) shall become effective upon NHPUC approval on the first day of each season as designated by the Company. Unless otherwise notified by the NHPUC, the Company shall submit COG filings as outlined in Section 16(M) of this clause on or before the first business day in September..
- 16(E) Definitions. The following terms shall be defined in this section, unless the context requires otherwise.
- 1) Bad Debt Expense: The uncollectible expense attributed to the portion of the Company's revenue associated with the recovery of gas costs under this clause.
 - 2) Capacity Release Revenues: The economic benefit derived from the sale or release of transportation and storage capacity that the Company has under contract.
 - 3) Carrying Charges: Interest expense calculated on the average monthly balance using the *monthly* prime lending rate, as reported by the Federal Reserve Statistical Release of Selected Interest Rates, and then added to the end of month balance.
 - 4) Correction Factor: Seasonal Adjustment necessary to align the peak day volumes used to calculate the Commercial and Industrial load factor ratios with the seasonal Commercial and Industrial High Winter and Low Winter throughput volumes applied to the cost of gas calculations.
 - 5) Direct Gas Costs: All purchased gas costs including supplier, storage and pipeline demand and commodity costs, as well as the commodity costs for local manufactured gas (Liquid Propane Gas (“LPG”) and Liquefied Natural Gas (“LNG”)).
 - 6) Economic Benefit: The difference between the revenues received and the marginal cost determined to serve non-core customers.
 - 7) Inventory Finance Charges: As billed in each Winter Season for annual charges. The total shall represent an accumulation of the projected charges as calculated using the monthly average of financed inventory at the existing or anticipated financing rate through a trust or other financing vehicle.
 - 8) Local Production and Storage Capacity Costs: The costs of providing storage service from the Company's storage facilities (*i.e.*, LNG and LPG) as determined in the Company's most recent rate proceeding.
 - 9) Market Based Allocator (“MBA”): The method used to allocate gas costs among Commercial and Industrial Customer Classifications. These ratios are presented in Section 16(F).
 - 10) Non-Core Commodity Costs: The commodity cost of gas assigned to non-core sales to which the COG is not applied.
 - 11) Non-Core Sales: Sales made under non-traditional off-system sales.
 - 12) Non-Core Sales Margins: The economic benefit derived from non-core transactions to which the COG is not applied, including non-core sales generated from the use of the Company's Gas Supply Resource portfolio.
 - 13) Summer Commodity: The gas supplies procured by the Company to serve firm load in the Summer Season.
 - 14) Summer Demand: The gas supply demand and transmission capacity procured by the Company to serve firm load in the Summer Season.
 - 15) Summer Season: The calendar months May 1 through October 31.

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I. GENERAL TERMS AND CONDITIONS

16 - COST OF GAS CLAUSE

- 16(G) Cost of Gas (COG) Calculations by Customer Class. The Cost of Gas (COG) Formula shall be computed on a semiannual basis for three (3) groups of customer classes as shown on the following table. The computation will use forecasts of seasonal gas costs, carrying charges, sendout volumes, and sales volumes. Forecasts shall be based on either historical data or Company projections, but must be weather-normalized. Any projections must be documented in full with each filing.

The COG for the Residential rate classes shall represent the total system average unit cost of gas of meeting firm sales load, projected in each COG filing. The Commercial & Industrial (C&I) Low Winter (LW) and High Winter (HW) rates will be calculated in the following way: first, the demand unit cost of gas, the sum of purchased and stored gas demand costs divided by projected prorated sales, will be multiplied by the applicable load factor ratio and then multiplied by the correction factor. This adjusted demand factor will then be added to the commodity factor, adjustment factor and indirect cost of gas rate to determine the total COG rates for the C&I LW and HW rate classes. The two load factor ratios shall be derived once a year, for effect every November 1 through October 31, using the ratio of the unit capacity cost of each C&I group to the total system unit capacity cost that is determined in the Company's submittal of its Capacity Allocators, for Capacity Assignment purposes, filed with its Winter COG, and as presented in Attachment C of the Delivery Service Terms and Conditions. The Correction Factor aligns the peak day volumes used to calculate the load factor ratios with the seasonal throughput volumes applied to the COG calculations.

GROUP	CUSTOMER CLASSES
Residential	Residential Heating and Non-Heating
Commercial and Industrial: Low Winter Use	G-51 through G-58
Commercial and Industrial: High Winter Use	G-41 through G-46

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16 - COST OF GAS CLAUSE

Commercial and Industrial Winter and Summer Season Cost of Gas

The Commercial and Industrial customer classes Winter Season Cost of Gas will be based on the Winter Season average cost of gas components used for the Residential Winter Season Cost of Gas. A separate Winter Season Cost of Gas factor will be computed for the low winter use class, Rates G-51, G-52, G-53, G-54, G-55, G-56, G-57 and G-58 and a separate Winter Season Cost of Gas Factor will be computed for the high winter use class, Rates G-41, G-42, G-43, G-44, G-45 and G-46.

The Commercial and Industrial customer classes Summer Season Cost of Gas will be based on the Summer Season average cost of gas components used for the Residential Summer Season Cost of Gas. A separate Summer Season Cost of Gas factor will be computed for the low winter use class, Rates G-51, G-52, G-53, G-54, G-55, G-56, G-57 and G-58 and a separate Summer Season Cost of Gas factor will be computed for the high winter use class, Rates G-41, G-42, G-43, G-44, G-45 and G-46.

These Cost of Gas Factors will be computed by applying ratios to the average demand portion of the Winter and Summer Season's cost of gas unit rate times the correction factor and then adding the remaining Residential average cost of gas unit rate.

These factors are calculated according to the following formulas:

Low Winter Use (COGwl) Formula Winter Season

$$\text{COGwl} = \text{RATIOl} \times \text{CFw} \times \text{CGwd} + \text{CGwo}$$

Low Winter Use (COGsl) Formula Summer Season

$$\text{COGsl} = \text{RATIOl} \times \text{CFs} \times \text{CGsd} + \text{CGso}$$

and:

$$\text{RATIOl} = \frac{\text{DCcl}}{\text{DDcl}} \div \frac{\text{DCc}}{\text{DDc}}$$

and:

High Winter Use (COGwh) Formula Winter Season

$$\text{COGwh} = \text{RATIOh} \times \text{CFw} \times \text{CGwd} + \text{CGwo}$$

High Winter Use (COGsh) Formula Summer Season

$$\text{COGsh} = \text{RATIOh} \times \text{CFs} \times \text{CGsd} + \text{CGso}$$

and

$$\text{RATIOh} = \frac{\text{DCch}}{\text{DDch}} \div \frac{\text{DCc}}{\text{DDc}}$$

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and:

$$\text{CFw} = \frac{(\text{WL: Sales} + \text{WH Sales})}{(\text{RATIOl} \times \text{WL:Sales}) + (\text{RATIOh} \times \text{WH:Sales})}$$

$$\text{CFs} = \frac{(\text{SL:Sales} + \text{SH:Sales})}{(\text{RATIOl} \times \text{SL:Sales}) + (\text{RATIOh} \times \text{SH:Sales})}$$

$$\text{CGwd} = \frac{\text{Dw}}{\text{W:Sales}}$$

$$\text{CGwo} = \frac{\text{CGw} - \text{Dw}}{\text{W:Sales}}$$

$$\text{CGsd} = \frac{\text{Ds}}{\text{S:Sales}}$$

$$\text{CGso} = \frac{\text{CGs} - \text{Ds}}{\text{S:Sales}}$$

$$\text{DCcl} = \text{Bcl} * \text{PLrate} + (\text{DDcl} - \text{Bcl}) * \text{REMrate}$$

$$\text{DCch} = \text{Bch} * \text{PLrate} + (\text{DDch} - \text{Bch}) * \text{REMrate}$$

$$\text{PLrate} = \text{PL} / \text{PLmdcq}$$

$$\text{REMrate} = \frac{(\text{DCc} - (\text{Bc} * \text{PLrate}))}{\text{DDc} - \text{Bc}}$$

$$\text{DCc} = \frac{(\text{DC} \times \text{DDc})}{\text{DD}}$$

where:

Bc = The daily base load for all the Commercial and Industrial rate classes

Bch = The daily base load for the Commercial and Industrial rate classes G-41, G-42, G-43, G-44, G-45 and G-46.

Bcl = The daily base load for the Commercial and Industrial rate classes G-51, G-52, G-53, G-54, G-55, G-56, G-57 and G-58.

CFs = Summer Season Commercial and Industrial gas cost correction factor.

CFw = Winter Season Commercial and Industrial gas cost correction factor.

CGs = The total cost of gas for the Summer Season for the Company's firm sales customers as previously defined.

CGw = The total cost of gas for the Winter Season for the Company's firm sales customers as previously defined.

DC = The annual forecasted pipeline, storage and peaking demand charges plus the total production and storage capacity costs, as stated in Section 16(F).

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- DCc = The Commercial and Industrial rate classes pro-rata share of the annual forecasted pipeline, storage, and peaking demand capacity costs.
- DCch = The Commercial and Industrial pro-rata share of the annual forecasted pipeline, storage, and peaking demand capacity costs allocated to Commercial and Industrial High Winter Use rate classes, G-41, G-42, G-43, G-44, G-45 and G-46.
- DCcl = The Commercial and Industrial pro-rata share of the annual forecasted pipeline, storage, and peaking demand capacity costs allocated to the Commercial and Industrial Low Winter Use rate classes, G-51, G-52, G-53, G-54, G-55, G-56, G-57 and G-58.
- DD = Total peak design day determinants.
- DDc = The peak design day determinants allocated for all the Commercial and Industrial rate classes.
- DDch = The peak design day determinants for the Commercial and Industrial rate classes, G-41, G-42, G-43, G-44, G-45 and G-46.
- DDcl = The peak design day determinants for the Commercial and Industrial rate classes, G-51, G-52, G-53, G-54, G-55, G-56, G-57 and G-58.
- Ds = The total Summer Demand charges as defined below.
- Dw = The total Winter Demand charges as previously defined.
- PL = The annual forecasted pipeline only demand charges
- PLmdcq = The maximum daily contract pipeline volume available to the Company.
- PLrate = The pipeline demand rate.
- RATIOh = Ratio of the average high Winter Use class Cost of Gas low load factor demand capacity costs to the total average Commercial and Industrial demand capacity costs.
- RATIOl = Ratio of the average low Winter Use class Cost of Gas high load factor demand capacity costs to the total average Commercial and Industrial demand capacity costs.
- REMrate = The weighted average demand rate for storage and peaking supplies.
- S: Sales = Forecasted sales volumes associated with the Summer Season.
- SH:Sales = Total Winter Season forecasted Commercial and Industrial high winter use sales.
- SL: Sales = Total Winter Season forecasted Commercial and Industrial low winter use sales volumes.
- W:Sales = Forecasted sales volumes associated with the Winter Season.
- WH:Sales = Total Winter Season forecasted Commercial and Industrial high winter use sales.
- WL: Sales = Total Winter Season forecasted Commercial and Industrial low winter use sales volumes.

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16 - COST OF GAS CLAUSE

- (2) Commercial and Industrial COG Ratio: The following factors will be filed annually by the Company for informational purposes. Significant changes in these factors signal the need to evaluate the COG ratios. These variables will assist in predicting significant shifting of the MBA-based escalator of gas costs and resulting changes in the COG ratios:
- (a) The percentage of load migration from sales to transportation service in the Commercial and Industrial High and Low Winter Use classes.
 - (b) The ratio of delivered costs of winter supplies to pipeline delivered supplies.
 - (c) The July and August consumption for the Commercial and Industrial High and Low Winter classes as a percentage of their annual consumption.

16(N) Other Rules.

- (1) The NHPUC may, where appropriate, on petition or on its own motion, grant an exception from the provisions of this tariff, upon such terms that it may determine to be in the public interest.
- (2) The Company may, without further NHPUC action, adjust the approved COG upward or downward monthly based on the Company's calculation of the projected over or under-collection for the period, but the cumulative adjustments upward shall not exceed twenty-five percent (25%) of the approved COG.
- (3) The Company may, at any time, file with the NHPUC an amended COG.
- (4) The operation of the Cost of Gas Clause is subject to all powers of suspension and investigation vested in the NHPUC.
- (5) The Company shall file both seasonal COG filings on or before the first business day in September. The summer portion of the filing will include COG rates effective May 1 of the following year.

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I. GENERAL TERMS AND CONDITIONS

17 - FIXED PRICE OPTION PROGRAM

- 17(A) Fixed Price Option Program. An alternative to the traditional Winter Period cost of gas pricing mechanism may be elected by a residential customer (rates R-1, R-3, R-4, R-5 or R-6) pursuant to the Company's Fixed Price Option Program (the "Program"). The Company may offer up to 50% of its weather normalized firm sales for the prior Winter Period under the Program. The cost of gas rate offered under the Program will remain fixed for all Winter Period deliveries commencing November 1 and ending April 30. The Company shall submit to the New Hampshire Public Utilities Commission on or before September 1 of each year a copy of the fixed price option computation. Once elected, customers must remain on the Program for the duration of the Winter Period, unless service is terminated. There are no maximum or minimum usage levels. No sign up fees apply.

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I. GENERAL TERMS AND CONDITIONS

18. LOCAL DELIVERY ADJUSTMENT CLAUSE

Section

- 18(A) Purpose
- 18(B) Applicability
- 18(C) Energy Efficiency Costs Allowable for Local Delivery Adjustment Clause (“LDAC”)
- 18(C.1) Lost Revenue Adjustment Mechanism for LDAC (“LRAM”)
- 18(D) Environmental Response Costs Allowable for LDAC
- 18(E) Expenses Related to Gas Restructuring Allowable for LDAC
- 18(F) Expenses Related to Rate Case/Temporary Rate Reconciliation Allowable for LDAC
- 18(G) Residential Low Income Assistance Program
- 18(H) Effective Date of LDAC
- 18(I) LDAC Formulas
- 18(J) Application of LDAC to Bills
- 18(K) Other Rules
- 18(L) Amendments to Uniform System of Accounts

18(A) Purpose. The purpose of the Local Delivery Adjustment Clause (“LDAC” or this “Clause”) is to establish procedures that allow the Company, subject to the jurisdiction of the NHPUC, to adjust, on an annual basis, its delivery charges in order to recover Conservation Charges (“CC”), Lost Revenues Adjustment Mechanism related to the Energy Efficiency Programs (“LRAM”), Winter Period Surcharges (“WPS”), Environmental Surcharges (“ES”) including the Relief Holder Surcharge (“RHS”) and the Manufactured Gas Program Surcharge (“MGP”), recover gas restructuring expenses (“GRE”), rate case expenses (“RCE”), Residential Low Income Assistance Program costs (“RLIAP”) and any other expenses the NHPUC may approve from time to time.

18(B) Applicability. This Clause shall be applicable in whole or part to all of the Company's firm sales service and firm delivery service customers as shown on the table below. The application of this clause may, for good cause shown, be modified by the NHPUC. See Section 18-(L) “Other Rules.”

Applicability	CC 18(C)	LRAM 18(C.1)	ES 18(D)	GRE 18(E)	RCE 18(F)	RLIAP 18(G)
Residential Non-Space Heating – R-1, R-5	1	1	X	N/A	1	X
Residential Space Heating – R-3, R-4, R-6, R-7	1	1	X	N/A	1	X
Small C&I – G-41, G-51, G-44, G-55	1	1	X	X	1	X
Medium C&I – G-42, G-52, G-45, G-56	1	1	X	X	1	X
Large C&I – G-43, G-53, G-54, G-46, G-57, G-58	1	1	X	X	1	X

Notes:

N/A Not applicable

X Applicable to all

1 As ordered by the NHPUC

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18(C.1) Lost Revenue Adjustment Mechanism Allowable for LDAC.

- 18(C.1)(1) Purpose: The purpose of this provision is to establish a procedure that allows the Company, subject to the jurisdiction of the NHPUC, to adjust, on an annual basis, the Lost Revenue Adjustment Rate, if and when applicable, to firm sales service and firm delivery service throughput in order to recover from firm ratepayers lost revenue related to Energy Efficiency programs, pursuant to Order No. 25,932 in Docket DE 15-137, Energy Efficiency Resource Standard.
- 18(C.1)(2) Applicability: A Lost Revenue Adjustment charge shall be applied to therms sold or transported by the Company subject to the jurisdiction of the New Hampshire Public Utilities Commission (the "Commission") as determined in accordance with the provision of this rate schedule. Such Lost Revenue Adjustment charge shall be determined annually by the Company, separately for the Residential Heating, and Commercial/Industrial rate categories, subject to review and approval by the Commission as provided for in this rate schedule.
- 18(C.1)(3) Calculation of Lost Revenue Adjustment: The Lost Revenue Adjustment for each Rate Category will be derived by dividing the projected annual lost revenue, plus the reconciliation balance, by forecast firm annual throughput. The reconciliation balance shall reflect both actual and projected data, as necessary, through October of the prior rate period.
- 18(C.1)(5) Effective Date: On or before the first business day in September of each year, the Company shall file with the NHPUC for its consideration and approval, the Company's request for a change in the Lost Revenue Adjustment Rate applicable to each Rate Category during the next subsequent twelve-month period commencing with the calendar month of November.
- 18(C.1)(6) Reconciliation Adjustment: Account xxxx-xxxx shall contain the cumulative difference between the Lost Revenue Adjustment Rate revenues collected and actual costs, plus carrying charges. The Company shall file the reconciliation along with the COG filing on or before the first business day in September of each year.

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18. LOCAL DELIVERY ADJUSTMENT CLAUSE

LDAC Formula

$$LDAC^X = CC^X + LRAM^X + ES + GREF^X + RCE + RLIAP$$

and:

$$ES^X = RHS + MGP$$

where:

$LDAC^X$ = Annualized class specific LDAC.

CC^X = Annualized class specific CC or EE Charge.

$LRAM^X$ = Annualized class specific LRAM.

ES = Total firm annualized ES.

RHS = Annualized charge to recover the costs of the closure of the Relief Holder at Gas Street, Concord, NH

MGP = Annualized charge to cover the remediation costs related to former manufactured gas plants.

$GREF^X$ = Total firm annualized class specific Gas Restructuring Expense Factor.

RCE = Rate Case Expense Factor.

$RLIAP$ = Residential Low Income Assistance Program Rate

18(J) Application of LDAC to Bills. The component costs comprising the LDAC (\$ per therm) shall be calculated to the nearest one one-hundredth of a cent per therm and shall be applied to the monthly firm sales and firm delivery service throughput in accordance with the table shown in Section 18(B).

18(K) Other Rules.

- (1) The NHPUC may, where appropriate, on petition or on its own motion, grant an exception from the provisions of these regulations, upon such terms that it may determine to be in the public interest.
- (2) Such amendments may include the addition or deletion of component cost categories, subject to the review and approval of the NHPUC.
- (3) The Company may implement an amended LDAC with the NHPUC approval at any time.
- (4) The NHPUC may, at any time, require the Company to file an amended LDAC.
- (5) The operation of the LDAC is subject to all powers of suspension and investigation vested in the NHPUC.

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18. LOCAL DELIVERY ADJUSTMENT CLAUSE

18(L) Ammendments to Uniform System of Accounts.

- 1920-1744 **Gas Restructuring Expense Reconciliation Adjustment:** This account shall be used to record the cumulative difference between the recovery and actual amounts of third party incremental expenses associated with the Company's Gas Restructuring initiatives. Entries to this account shall be determined as outlined in the Local Delivery Adjustment Clause, 18(E).
- 1163-1755 **Energy Efficiency Reconciliation Adjustment:** This account shall be used to record the cumulative difference between the sum of DSM and/or EE Expenditures incurred by the Company plus the sum of DSM and/or EE Repayments and the revenues collected from customers pursuant to this clause with respect to a given Rate Category. Entries to this account shall be determined as outlined in the Local Delivery Adjustment Clause, 18(C).
- 1920-1863 **Environmental Response Costs Reconciliation Adjustment:** This account shall be used to record the cumulative difference between the revenues toward environmental response costs as calculated by multiplying the ES times monthly firm sales volumes and delivery service throughput and environmental response costs allowable per formula. Entries to this account shall be determined as outlined in the Local Delivery Adjustment Clause, 18(D).
- 1930-1745 **Rate Case Expense/Temporary Rates Reconciliation Adjustment:** This account shall be used to record the cumulative difference between the recovery and actual amounts of third-party incremental expenses associated with the Company's Rate Case initiatives and the difference between the final and temporary distribution rates. Entries to this account shall be determined as outlined in the Local Delivery Adjustment Clause, 18(F).
- 1169-1756 **Residential Low Income Assistance Program Reconciliation Adjustment:** This account shall be used to record the cumulative difference between the actual revenue derived from the actual sales and transportation service throughput multiplied by the RLIAP rate and the actual costs of the program, which consists of the revenue shortfall and all administrative and marketing costs, as outlined in the Local Delivery Adjustment Clause, 18(G).
- 1163-1756 **Lost Revenue Reconciliation Adjustment:** This account shall be used to record the cumulative difference between the lost revenue of the Company and the revenue collected from customers pursuant to this clause with respect to a given Rate Category. Entries to this account shall be determined as outlined in the Local Delivery Adjustment Clause, 18(C.1).

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II RATE SCHEDULES
FIRM RATE SCHEDULES

	Winter Period				Summer Period			
	Delivery Charge	Cost of Gas Rate Page 77	LDAC Page 82	Total Rate	Delivery Charge	Cost of Gas Rate Page 77	LDAC Page 82	Total Rate
<u>Residential Non Heating - R-1</u>								
Customer Charge per Month per Meter	\$15.27			\$ 15.27	\$ 15.27			\$ 15.27
All therms	\$ 0.2018	\$ 0.7162	\$ 0.0553	\$ 0.9733	\$ 0.2018	\$ 0.4368	\$ 0.0553	\$ 0.6939
<u>Residential Heating - R-3</u>								
Customer Charge per Month per Meter	\$22.10			\$ 22.10	\$ 22.10			\$ 22.10
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.3495	\$ 0.7162	\$ 0.0553	\$ 1.1210	\$ 0.3495	\$ 0.4368	\$ 0.0553	\$ 0.8416
All therms over the first block per month at	\$ 0.2892	\$ 0.7162	\$ 0.0553	\$ 1.0607	\$ 0.2892	\$ 0.4368	\$ 0.0553	\$ 0.7813
<u>Residential Heating - R-4</u>								
Customer Charge per Month per Meter	\$8.84			\$ 8.84	\$ 8.84			\$ 8.84
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.1398	\$ 0.7162	\$ 0.0553	\$ 0.9113	\$ 0.1398	\$ 0.4368	\$ 0.0553	\$ 0.6319
All therms over the first block per month at	\$ 0.1156	\$ 0.7162	\$ 0.0553	\$ 0.8871	\$ 0.1156	\$ 0.4368	\$ 0.0553	\$ 0.6077
<u>Commercial/Industrial - G-41</u>								
Customer Charge per Month per Meter	\$48.36			\$ 48.36	\$ 48.36			\$ 48.36
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.3965	\$ 0.7121	\$ 0.0370	\$ 1.1456	\$ 0.3965	\$ 0.4206	\$ 0.0370	\$ 0.8541
All therms over the first block per month at	\$ 0.2663	\$ 0.7121	\$ 0.0370	\$ 1.0154	\$ 0.2663	\$ 0.4206	\$ 0.0370	\$ 0.7239
<u>Commercial/Industrial - G-42</u>								
Customer Charge per Month per Meter	\$145.08			\$ 145.08	\$ 145.08			\$ 145.08
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.3606	\$ 0.7121	\$ 0.0370	\$ 1.1097	\$ 0.3606	\$ 0.4206	\$ 0.0370	\$ 0.8182
All therms over the first block per month at	\$ 0.2402	\$ 0.7121	\$ 0.0370	\$ 0.9893	\$ 0.2402	\$ 0.4206	\$ 0.0370	\$ 0.6978
<u>Commercial/Industrial - G-43</u>								
Customer Charge per Month per Meter	\$622.61			\$ 622.61	\$ 622.61			\$ 622.61
All therms over the first block per month at	\$ 0.2216	\$ 0.7121	\$ 0.0370	\$ 0.9707	\$ 0.1013	\$ 0.4206	\$ 0.0370	\$ 0.5589
<u>Commercial/Industrial - G-51</u>								
Customer Charge per Month per Meter	\$48.36			\$ 48.36	\$ 48.36			\$ 48.36
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.2390	\$ 0.7305	\$ 0.0370	\$ 1.0065	\$ 0.2390	\$ 0.4574	\$ 0.0370	\$ 0.7334
All therms over the first block per month at	\$ 0.1553	\$ 0.7305	\$ 0.0370	\$ 0.9228	\$ 0.1553	\$ 0.4574	\$ 0.0370	\$ 0.6497
<u>Commercial/Industrial - G-52</u>								
Customer Charge per Month per Meter	\$145.08			\$ 145.08	\$ 145.08			\$ 145.08
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.2052	\$ 0.7305	\$ 0.0370	\$ 0.9727	\$ 0.1487	\$ 0.4574	\$ 0.0370	\$ 0.6431
All therms over the first block per month at	\$ 0.1367	\$ 0.7305	\$ 0.0370	\$ 0.9042	\$ 0.0845	\$ 0.4574	\$ 0.0370	\$ 0.5789
<u>Commercial/Industrial - G-53</u>								
Customer Charge per Month per Meter	\$640.74			\$ 640.74	\$ 640.74			\$ 640.74
All therms over the first block per month at	\$ 0.1434	\$ 0.7305	\$ 0.0370	\$ 0.9109	\$ 0.0688	\$ 0.4574	\$ 0.0370	\$ 0.5632
<u>Commercial/Industrial - G-54</u>								
Customer Charge per Month per Meter	\$640.74			\$ 640.74	\$ 640.74			\$ 640.74
All therms over the first block per month at	\$ 0.0547	\$ 0.7305	\$ 0.0370	\$ 0.8222	\$ 0.0297	\$ 0.4574	\$ 0.0370	\$ 0.5241

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Title: President

II RATE SCHEDULES
FIRM RATE SCHEDULES

	Winter Period				Summer Period			
	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 77</u>	<u>LDAC Page 82</u>	<u>Total Rate</u>	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 77</u>	<u>LDAC Page 82</u>	<u>Total Rate</u>
<u>Residential Non Heating - R-5</u>								
Customer Charge per Month per Meter	\$ 19.85			\$ 19.85	\$ 19.85			\$ 19.85
All therms	\$ 0.2623	\$ 0.7162	\$ 0.0553	\$ 1.0338	\$ 0.2623	\$ 0.4368	\$ 0.0553	\$ 0.7544
<u>Residential Heating - R-6</u>								
Customer Charge per Month per Meter	\$28.73			\$ 28.73	\$ 28.73			\$ 28.73
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.4544	\$ 0.7162	\$ 0.0553	\$ 1.2259	\$ 0.4544	\$ 0.4368	\$ 0.0553	\$ 0.9465
All therms over the first block per month at	\$ 0.3760	\$ 0.7162	\$ 0.0553	\$ 1.1475	\$ 0.3760	\$ 0.4368	\$ 0.0553	\$ 0.8681
<u>Residential Heating - R-7</u>								
Customer Charge per Month per Meter	\$11.49			\$ 11.49	\$ 11.49			\$ 11.49
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.1817	\$ 0.7162	\$ 0.0553	\$ 0.9532	\$ 0.1817	\$ 0.4368	\$ 0.0553	\$ 0.6738
All therms over the first block per month at	\$ 0.1503	\$ 0.7162	\$ 0.0553	\$ 0.9218	\$ 0.1503	\$ 0.4368	\$ 0.0553	\$ 0.6424
<u>Commercial/Industrial - G-44</u>								
Customer Charge per Month per Meter	\$62.87			\$ 62.87	\$ 62.87			\$ 62.87
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.5155	\$ 0.7121	\$ 0.0370	\$ 1.2646	\$ 0.5155	\$ 0.4206	\$ 0.0370	\$ 0.9731
All therms over the first block per month at	\$ 0.3462	\$ 0.7121	\$ 0.0370	\$ 1.0953	\$ 0.3462	\$ 0.4206	\$ 0.0370	\$ 0.8038
<u>Commercial/Industrial - G-45</u>								
Customer Charge per Month per Meter	\$188.60			\$ 188.60	\$ 188.60			\$ 188.60
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.4688	\$ 0.7121	\$ 0.0370	\$ 1.2179	\$ 0.4688	\$ 0.4206	\$ 0.0370	\$ 0.9264
All therms over the first block per month at	\$ 0.3123	\$ 0.7121	\$ 0.0370	\$ 1.0614	\$ 0.3123	\$ 0.4206	\$ 0.0370	\$ 0.7699
<u>Commercial/Industrial - G-46</u>								
Customer Charge per Month per Meter	\$809.39			\$ 809.39	\$ 809.39			\$ 809.39
All therms over the first block per month at	\$ 0.2881	\$ 0.7121	\$ 0.0370	\$ 1.0372	\$ 0.1317	\$ 0.4206	\$ 0.0370	\$ 0.5893
<u>Commercial/Industrial - G-55</u>								
Customer Charge per Month per Meter	\$62.87			\$ 62.87	\$ 62.87			\$ 62.87
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.3107	\$ 0.7305	\$ 0.0370	\$ 1.0782	\$ 0.3107	\$ 0.4574	\$ 0.0370	\$ 0.8051
All therms over the first block per month at	\$ 0.2019	\$ 0.7305	\$ 0.0370	\$ 0.9694	\$ 0.2019	\$ 0.4574	\$ 0.0370	\$ 0.6963
<u>Commercial/Industrial - G-56</u>								
Customer Charge per Month per Meter	\$188.60			\$ 188.60	\$ 188.60			\$ 188.60
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.2667	\$ 0.7305	\$ 0.0370	\$ 1.0342	\$ 0.1933	\$ 0.4574	\$ 0.0370	\$ 0.6877
All therms over the first block per month at	\$ 0.1777	\$ 0.7305	\$ 0.0370	\$ 0.9452	\$ 0.1099	\$ 0.4574	\$ 0.0370	\$ 0.6043
<u>Commercial/Industrial - G-57</u>								
Customer Charge per Month per Meter	\$832.96			\$ 832.96	\$ 832.96			\$ 832.96
All therms over the first block per month at	\$ 0.1864	\$ 0.7305	\$ 0.0370	\$ 0.9539	\$ 0.0894	\$ 0.4574	\$ 0.0370	\$ 0.5838
<u>Commercial/Industrial - G-58</u>								
Customer Charge per Month per Meter	\$832.96			\$ 832.96	\$ 832.96			\$ 832.96
All therms over the first block per month at	\$ 0.0711	\$ 0.7305	\$ 0.0370	\$ 0.8386	\$ 0.0386	\$ 0.4574	\$ 0.0370	\$ 0.5330

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NHPUC No. 8 - GAS
LIBERTY UTILITIES

Third Revised Page 76
Superseding Second Revised Page 76

Anticipated Cost of Gas					
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2016 THROUGH APRIL 30, 2017					
(REFER TO TEXT ON IN SECTION 16 COST OF GAS CLAUSE)					
(Col 1)			(Col 2)		(Col 3)
ANTICIPATED DIRECT COST OF GAS					
Purchased Gas:					
Demand Costs:			\$ 7,527,898		
Supply Costs:			49,523,042		
Storage Gas:					
Demand, Capacity:			\$ 941,660		
Commodity Costs:			4,026,000		
Produced Gas:					
			1,797,499		
Hedged Contract (Saving)/Loss					
			-		
Hedge Underground Storage Contract (Saving)/Loss					
			-		
Unadjusted Anticipated Cost of Gas				\$ 63,816,099	
Adjustments:					
Prior Period (Over)/Under Recovery (as of 05/01/15)			\$ 2,690,610		
Interest			14,641		
Prior Period Adjustments			-		
Broker Revenues			(1,374,947)		
Refunds from Suppliers			-		
Fuel Financing			-		
Transportation CGA Revenues			(29,471)		
Interruptible Sales Margin			-		
Capacity Release and Off System Sales Margins			(5,448,856)		
Hedging Costs			-		
Fixed Price Option Administrative Costs			41,972		
Total Adjustments				(4,106,050)	
Total Anticipated Direct Cost of Gas				\$ 59,710,049	
Anticipated Indirect Cost of Gas					
Working Capital:					
Total Unadjusted Anticipated Cost of Gas 11/01/15 - 04/30/16			\$ 63,816,099		
Working Capital Rate: Lead Lag Days / 365			0.0391		
Prime Rate			3.50%		
Working Capital Percentage			0.137%		
Working Capital			\$ 87,342		
Plus: Working Capital Reconciliation (Acct 142.20)			(33,597)		
Total Working Capital Allowance				53,745	
Bad Debt:					
Total Unadjusted Anticipated Cost of Gas 11/01/15 - 04/30/16			\$ 63,816,099		
Less: Refunds			-		
Plus: Total Working Capital			53,745		
Plus: Prior Period (Over)/Under Recovery			2,690,610		
Subtotal			\$ 66,560,454		
Bad Debt Percentage			4.04%		
Bad Debt Allowance			\$ 2,689,042		
Plus: Bad Debt Reconciliation (Acct 175.52)			(37,241)		
Total Bad Debt Allowance				\$ 2,651,801	
Production and Storage Capacity				\$ 1,980,428	
Miscellaneous Overhead (11/01/15 - 04/30/16)			\$ 13,170		
Times Winter Sales			90,536		
Divided by Total Sales			112,609		
Miscellaneous Overhead				10,589	
Total Anticipated Indirect Cost of Gas				\$ 4,696,563	
Total Cost of Gas				\$ 64,406,611	

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II. RATE SCHEDULES				
CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE				
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2016 THROUGH APRIL 30, 2017				
(Refer to Text in Section 17(A) Fixed Price Option Program)				
(Col 1)			(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas			\$ 59,710,049	
Projected Prorated Sales (11/01/16 - 04/30/17)			89,920,078	
Direct Cost of Gas Rate				\$ 0.6640 per therm
Demand Cost of Gas Rate			\$ 8,469,558	\$ 0.0942 per therm
Commodity Cost of Gas Rate			55,346,541	\$ 0.6155 per therm
Adjustment Cost of Gas Rate			(4,106,050)	\$ (0.0457) per therm
Total Direct Cost of Gas Rate			\$ 59,710,049	\$ 0.6640 per therm
Total Anticipated Indirect Cost of Gas			\$ 4,696,563	
Projected Prorated Sales (11/01/16 - 04/30/17)			89,920,078	
Indirect Cost of Gas				\$ 0.0522 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/16) as updated, see page 77				\$ 0.7162
<u>Calculation of FPO - Consistent with Order No. 24,515 in DG 05-127</u>				
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/16) as originally filed 9-1-16				\$ 0.7068
FPO Risk Premium				\$ 0.0200
TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (11/01/16)				\$ 0.7268
RESIDENTIAL COST OF GAS RATE - 11/01/16			COGwr	\$ 0.7268 /therm

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II. RATE SCHEDULES						
Calculation of Firm Transportation Cost of Gas Rate						
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2016 THROUGH APRIL 30, 2017						
(Refer to text in Section 16(Q) Firm Transportation Cost of Gas Clause)						
	(Col 1)		(Col 2)		(Col 3)	(Col 4)
ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES:						
PROPANE			\$ 283,609			
LNG			<u>1,513,890</u>			
TOTAL ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES			1,797,499			
ESTIMATED PERCENTAGE USED FOR PRESSURE SUPPORT PURPOSES			<u>9.9%</u>			
ESTIMATED COST OF LIQUIDS USED FOR PRESSURE SUPPORT PURPOSES			<u>\$ 177,952</u>			
PROJECTED FIRM THROUGHPUT (THERMS):						
FIRM SALES			90,536,024		64.4%	
FIRM TRANSPORTATION SUBJECT TO FTCG			<u>50,086,696</u>		<u>35.6%</u>	
TOTAL FIRM THROUGHPUT SUBJECT TO COST OF GAS CHARGE			140,622,721		100.0%	
TRANSPORTATION SHARE OF SUPPLEMENTAL GAS SUPPLIES			35.6%	x	\$ 177,952	= \$ 63,383
PRIOR (OVER) OR UNDER COLLECTION						<u>(33,912)</u>
NET AMOUNT TO COLLECT FROM (RETURNED TO) TRANSPORTATION CUSTOMERS						\$ 29,471
PROJECTED FIRM TRANSPORTATION THROUGHPUT						50,086,696
FIRM TRANSPORTATION COST OF GAS						\$0.0006

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Environmental Surcharge - Manufactured Gas Plants			
<u>Manufactured Gas Plants</u>			
Required annual Environmental increase		\$2,893,504	
DG 10-17 Base Rate Revision Collections		\$0	
Environmental Subtotal		\$2,893,504	
Overall Annual Net Increase to Rates		\$2,893,504	
Estimated weather normalized firm therms billed for the twelve months ended 10/31/17 - sales and transportation		186,909,214	therms
Surcharge per therm		<u>\$0.0155</u>	per therm
<u>Total Environmental Surcharge</u>		<u>\$0.0155</u>	

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Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Utilities
Local Distribution Adjustment Charge (LDAC) decrease due to Rate Case Expense and
Recoupment

For LDAC effective November 1, 2016 - December 31, 2016

Docket No. DG 14-180

1	August 1, 2016 Balance of Acct. 8840-2-0000-10-1930-1745	\$46,132
2	Estimated August 2016 - October 2016 Recovery	(\$292,028)
3	Estimated August 2016 - October 2016 Interest	<u>(\$761)</u>
4		
5	Estimated Balance November 1, 2016	(\$246,658)
6	Estimated November 2016 - December 2016 Interest	<u>(\$791)</u>
7		
8	Estimated Remaining Recovery	(\$247,449)
9		
10	Estimated November 2016 - December 2016 Sales (therms)	34,894,997
11		
12	RCE rate per therm November 2016 - December 2016	(\$0.0071)

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NHPUC No. 8 - GAS
LIBERTY UTILITIES

Local Delivery Adjustment Clause Calculation					
			Sales Customers	Transportation Customers	
<u>Residential Non Heating Rates - R-1, R-5</u>					
Energy Efficiency Charge		\$0.0402			
Demand Side Management Charge		0.0000			
Conservation Charge (CCx)			\$0.0402		
Relief Holder and pond at Gas Street, Concord, NH		0.0000			
Manufactured Gas Plants		0.0155			
Environmental Surcharge (ES)			0.0155		
Interruptible Transportation Margin Credit (ITMC)			0.0000		
Energy Efficiency Resource Standard Lost Revenue Mechanism			0.0000		
Rate Case Expense Factor (RCEF)			(0.0071)		
Residential Low Income Assistance Program (RLIAP)			0.0067		
LDAC			\$0.0553		per therm
<u>Residential Heating Rates - R-3, R-4, R-6, R-7</u>					
Energy Efficiency Charge		\$0.0402			
Demand Side Management Charge		0.0000			
Conservation Charge (CCx)			\$0.0402		
Relief Holder and pond at Gas Street, Concord, NH		0.0000			
Manufactured Gas Plants		0.0155			
Environmental Surcharge (ES)			0.0155		
Energy Efficiency Resource Standard Lost Revenue Mechanism			0.0000		
Rate Case Expense Factor (RCEF)			(0.0071)		
Residential Low Income Assistance Program (RLIAP)			0.0067		
LDAC			\$0.0553		per therm
<u>Commercial/Industrial Low Annual Use Rates - G-41, G-51, G-44, G-55</u>					
Energy Efficiency Charge		\$0.0219			
Demand Side Management Charge		0.0000			
Conservation Charge (CCx)			\$0.0219	\$0.0219	
Relief Holder and pond at Gas Street, Concord, NH		0.0000			
Manufactured Gas Plants		0.0155			
Environmental Surcharge (ES)			0.0155	0.0155	
Energy Efficiency Resource Standard Lost Revenue Mechanism			0.0000	0.0000	
Gas Restructuring Expense Factor (GREF)			0.0000	0.0000	
Rate Case Expense Factor (RCEF)			(0.0071)	(0.0071)	
Residential Low Income Assistance Program (RLIAP)			0.0067	0.0067	
LDAC			\$0.0370	\$0.0370	per therm
<u>Commercial/Industrial Medium Annual Use Rates - G-42, G-52, G-45, G-56</u>					
Energy Efficiency Charge		\$0.0219			
Demand Side Management Charge		0.0000			
Conservation Charge (CCx)			\$0.0219	\$0.0219	
Relief Holder and pond at Gas Street, Concord, NH		0.0000			
Manufactured Gas Plants		0.0155			
Environmental Surcharge (ES)			0.0155	0.0155	
Energy Efficiency Resource Standard Lost Revenue Mechanism			0.0000	0.0000	
Gas Restructuring Expense Factor (GREF)			0.0000	0.0000	
Rate Case Expense Factor (RCEF)			(0.0071)	(0.0071)	
Residential Low Income Assistance Program (RLIAP)			0.0067	0.0067	
LDAC			\$0.0370	\$0.0370	per therm
<u>Commercial/Industrial Large Annual Use Rates - G-43, G-53, G-54, G-46, G-56, G-57, G-58</u>					
Energy Efficiency Charge		\$0.0219			
Demand Side Management Charge		0.0000			
Conservation Charge (CCx)			\$0.0219	\$0.0219	
Relief Holder and pond at Gas Street, Concord, NH		0.0000			
Manufactured Gas Plants		0.0155			
Environmental Surcharge (ES)			0.0155	0.0155	
Energy Efficiency Resource Standard Lost Revenue Mechanism			0.0000	0.0000	
Gas Restructuring Expense Factor (GREF)			0.0000	0.0000	
Rate Case Expense Factor (RCEF)			(0.0071)	(0.0071)	
Residential Low Income Assistance Program (RLIAP)			0.0067	0.0067	
LDAC			\$0.0370	\$0.0370	per therm

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Title: President

III DELIVERY TERMS AND CONDITIONS

ATTACHMENT B

Schedule of Administrative Fees and Charges

I.	Supplier Balancing Charge:		\$0.23 per MMBtu of Daily Imbalance Volumes	
II.	Capacity Mitigation Fee		15% of the Proceeds from the Marketing of Capacity for Mitigation.	
			Capacity for Mitigation.	
III.	Peaking Demand Charge		\$ 11.39 MMBTU of Peak MDQ	
IV.	Company Allowance Calculation (per Schedule 25)			
			152,544,340	Total Sendout - Therms Aug-2015 - Jul-2016
			<u>148,757,282</u>	Total Throughput - Therms Aug-2015 - Jul-2016
			3,787,058	Variance (Sendout - Throughput)
	Company Allowance Percentage 2016-17		2.5%	Variance / Total Sendout

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Issued in compliance with NHPUC Order No. 25,958 dated October 26, 2016 in Docket No. DG 16-814.

III DELIVERY TERMS AND CONDITIONS

ATTACHMENT C

Capacity Allocators

Rate Class		Pipeline	Storage	Peaking	Total
G-41	Low Annual/High Winter Use	48.3%	19.3%	32.4%	100.0%
G-51	Low Annual/Low Winter Use	75.4%	9.2%	15.4%	100.0%
G-42	Medium Annual / High Winter	48.3%	19.3%	32.4%	100.0%
G-52	High Annual / Low Winter Use	75.4%	9.2%	15.4%	100.0%
G-43	High Annual / High Winter	48.3%	19.3%	32.4%	100.0%
G-53	High Annual / Load Factor < 90%	75.4%	9.2%	15.4%	100.0%
G-54	High Annual / Load Factor < 90%	75.4%	9.2%	15.4%	100.0%

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