Northern Utilities, Inc. New Hampshire Division 2019 / 2020 Annual Cost of Gas Filing Winter and Summer Periods

Tariff Sheets

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Calculation of proposed Cost of Gas Adjustment
Winter Season

Second Revised Page No. 41
Calculation of proposed Cost of Gas Adjustment
Summer Season

Fifth Revised Page No. 42
Calculation of proposed Cost of Gas Adjustment
Winter Season

Fourth Revised Page No. 43
Calculation of proposed Cost of Gas Adjustment
Summer Season

Third Revised Page No. 62 LDAC Rates

Sixth Revised Page No. 85 Rate Summary (Winter Season) Residential Rate Classes

Fifth Revised Page No. 86
Rate Summary (Summer Season)
Residential Rate Classes

Sixth Revised Page No. 87
Rate Summary (Winter Season)
Commercial / Industrial Rate Classes

Northern Utilities, Inc. New Hampshire Division 2019 / 2020 Annual Cost of Gas Filing Winter and Summer Periods

Fifth Revised Page No. 88
Rate Summary (Summer Season)
Commercial / Industrial Rate Classes

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Supplier Balancing Charge &
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Appendix D
Re-entry Rate & Conversion Rate

| <u>Pages</u> | Revision | Proposed |
|--------------|----------------------|----------------|
| Title | Original | |
| i | Original | |
| ii | Original | |
| iii | Original | |
| iv | Original | |
| V | Original | |
| vi | Original | |
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| 37 | Original | |
| 38 39 | Original Original | |
| 40 | Original | |
| 38 | Original | |
| 39 | Original | |
| 40 | First Revised | Second Revised |
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| <u>Pages</u> | Revision | <u>Proposed</u> |
|--|---|--|
| 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 | First Revised Fourth Revised Third Revised Original | Second Revised Fifth Revised Fourth Revised |
| 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 | Original Second Revised Original | Third Revised |
| 84 85 86 87 88 89 90 | Original Fifth Revised Fourth Revised Fifth Revised Fourth Revised Coriginal Original | Sixth Revised Fifth Revised Sixth Revised Fifth Revised |

| <u>Pages</u> | <u>Revision</u> | <u>Proposed</u> |
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| <u>Pages</u> | Revision | Proposed |
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| 141 | First Revised | Second Revised |
| 142 | Original | |
| 143 | Original | |
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| 146 | Original | |
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| 150 | Original | |
| 151 | Original | |
| 153 | Original | |
| 154 | Original | |
| 155 | Original | |
| 156 | First Revised | Second Revised |
| 157 | Original | |
| 158 | First Revised | Second Revised |
| 159 | Original | |
| 160 | Original | |

Anticipated Cost of Gas

New Hampshire Division Period Covered: November 1, 2019 - April 30, 2020

(Col 1) (Col 2) (Col 3) **ANTICIPATED DIRECT COST OF GAS Purchased Gas: Demand Costs:** \$1,399,977 Supply Costs: \$4,289,717 Storage & Peaking Gas: Demand, Capacity: \$12,012,257 Commodity Costs: \$9,816,975 Interruptible Included Above \$0 **Inventory Finance Charge** \$2,734 Capacity Release, & Asset Management (\$6,057,829) Re-entry Rate & Conversion Rate Revenues (10,000)**Total Anticipated Direct Cost of Gas** \$21,453,831 ANTICIPATED INDIRECT COST OF GAS Adjustments: Prior Period Under/(Over) Collection (\$1,406,949) Interest (\$29,113) Refunds \$0 Interruptible Margins \$0 **Total Adjustments** (\$1,436,062) **Working Capital:** Total Anticipated Direct Cost of Gas \$21,453,831 Working Capital Percentage 0.2880% Working Capital Allowance 61,778 Plus: Working Capital Reconciliation (Acct 173) (\$35,633) **Total Working Capital Allowance** \$26,145 **Bad Debt: Bad Debt Allowance** \$153,235 Plus: Bad Debt Reconciliation (Acct 173) (\$2,792)Total Bad Debt Allowance \$150,444 **Local Production and Storage Capacity** \$476,106 Miscellaneous Overhead-80.55% Allocated to WinterSeason \$467,545 **Total Anticipated Indirect Cost of Gas** (\$315,822)**Total Cost of Gas** \$21,138,010 Issued: September 17, 2019 Issued By: Christine Vaughan Senior Vice President Effective Date: November 1, 2019 Authorized by NHPUC Order No. _____, in Docket No. DG 19-___, dated ____

Anticipated Cost of Gas

New Hampshire Division Period Covered: May 1, 2020 - October 31, 2020

| (Col 1) | (Col 2) | (Col 3) | |
|--|-------------|-----------------------|---|
| ANTICIPATED DIRECT COST OF GAS | | | |
| Purchased Gas: | | | |
| Demand Costs: | \$374,176 | | |
| Supply Costs: | \$1,901,121 | | |
| Storage & Peaking Gas: | | | |
| Demand, Capacity: | \$351,629 | | |
| Commodity Costs: | \$15,556 | | |
| 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>\$2,642,481</u> | |
| ANTICIPATED INDIRECT COST OF GAS | | | |
| Adjustments: | | | |
| Prior Period Under/(Over) Collection | (\$339,771) | | |
| Interest | (\$18,232) | | |
| Refunds Interruptible Margins | \$0 \$0 | | |
| Total Adjustments | Ψ0 | (\$358,003) | |
| Working Capital: | | (\$600,000) | |
| Total Anticipated Direct Cost of Gas | \$2,642,482 | | |
| Working Capital Percentage | 0.2880% | | |
| Working Capital Allowance | \$7,609 | | |
| Plus: Working Capital Reconciliation (Acct 173) | (\$8,605) | | |
| Fius. Working Capital Reconciliation (Acct 173) | (φο,ουσ) | | |
| Total Working Capital Allowance | | (\$996) | |
| Bad Debt: | | | |
| Bad Debt Allowance | \$15,143 | | |
| Plus: Bad Debt Reconciliation (Acct 173) | (\$674) | | |
| Total Bad Debt Allowance | | \$14,470 | |
| Local Production and Storage Capacity | | \$0 | |
| Miscellaneous Overhead-19.45% Allocated to the Summer Se | Pason | \$112,910 | |
| Total Anticipated Indirect Cost of Gas | 000011 | (\$231,620) | |
| | | , | |
| Total Cost of Gas | _ | \$2,410,862 | |
| Issued: September 17, 2019 | Issued By: | Christine Vaughan | |
| Effective Date: May 1, 2020 | | Senior Vice President | _ |
| Authorized by NHPUC Order No, in Docket No. DG 19- | dated 201 | | |
| , in Dooret 140. Do 19- | | | |

TOTAL C&I LLF COST OF GAS RATE

Effective Date: November 1, 2019
Authorized by NHPUC Order No. _____, in Docket No. DG 19-___, dated ____

Issued: September 17, 2019

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: November 1, 2019 - April 30, 2020

| Period Covered: Novemb | per 1, 2019 - April 30, 2020 | | |
|---|---|---|-------------------------------------|
| (Col 1) | (Col 2) | (Col 3) | |
| Total Anticipated Direct Cost of Gas Projected Prorated Sales (11/01/19 - 04/30/20) Direct Cost of Gas Rate | \$21,453,831 36,062,011 | \$0.5949 | per therm |
| Demand Cost of Gas Rate Commodity Cost of Gas Rate Total Direct Cost of Gas Rate | \$7,344,405 \$ <u>14,106,692</u> \$21,451,097 | \$0.2037 \$0.3912 \$0.5949 | per therm per therm per therm |
| Total Anticipated Indirect Cost of Gas Projected Prorated Sales (11/01/19 - 04/30/20) Indirect Cost of Gas | (\$315,822) 36,062,011 | (\$0.0088) | per therm |
| TOTAL PERIOD AVERAGE COST OF GAS | | \$0.5861 | per therm |
| RESIDENTIAL COST OF GAS RATE -11/01/19 | COGwr | \$0.5861 | per therm |
| | Maximum (COG+25%) | \$0.7326 | |
| COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/19 | COGwl | \$0.4950 | per therm |
| | Maximum (COG+25%) | \$0.6188 | |
| C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (11/01/19 - 04/30/20) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED COMMODITY COSTS C&I HLF PROJECTED PRORATED SALES (11/01/19 - 04/30/20) COMMODITY COST OF GAS RATE INDIRECT COST OF GAS TOTAL C&I HLF COST OF GAS RATE | \$505,175 \$30,878 \$536,053 3,762,682 \$0.1425 \$1,352,376 \$6,954 \$1,359,330 3,762,682 \$0.3613 (\$0.0088) | | |
| COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/19 | COGwh | \$0.6082 | per therm |
| | Maximum (COG+25%) | \$0.7603 | |
| C&I LLF COMMODITY COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF C&I LLF TOTAL ADJUSTED DEMAND COSTS C&I LLF PROJECTED PRORATED SALES (11/01/19 - 04/30/20) DEMAND COST OF GAS RATE | \$3,196,065 \$195,354 \$3,391,419 15,521,733 \$0.2185 | | |
| C&I LLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF C&I LLF TOTAL ADJUSTED COMMODITY COSTS C&I LLF PROJECTED PRORATED SALES (11/01/19 - 04/30/20) COMMODITY COST OF GAS RATE | \$6,154,139 \$31,647 \$6,185,785 15,521,733 \$0.3985 | | |
| INDIRECT COST OF GAS | (\$0.0088) | | |
| TOTAL CRILLE COOT OF CAC DATE | #C 0000 | | |

\$0.6082

Issued By:

Christine Vaughan

Senior Vice President

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: May 1, 2020 - October 31, 2020

| (Col 1) | (Col 2) | (Col 3) | |
|---|---|---|-------------------------------------|
| Total Anticipated Direct Cost of Gas Projected Prorated Sales (05/01/20 - 10/31/20) Direct Cost of Gas Rate | \$2,642,482 8,708,801 | \$0.3035 | per therm |
| Demand Cost of Gas Rate Commodity Cost of Gas Rate Total Direct Cost of Gas Rate | \$725,806 \$1,916,677 \$2,642,482 | \$0.0833 \$ <u>0.2201</u> \$0.3034 | per therm per therm per therm |
| Total Anticipated Indirect Cost of Gas Projected Prorated Sales (05/01/20 - 10/31/20) Indirect Cost of Gas | (\$231,620) 8,708,801 | (\$0.0266) | per therm |
| TOTAL PERIOD AVERAGE COST OF GAS | | \$0.2768 | per therm |
| RESIDENTIAL COST OF GAS RATE -05/01/20 | COGwr | \$0.2768 | per therm |
| | Maximum (COG+25%) | \$0.3460 | |
| | | | |
| COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/20 | COGwI | \$0.2443 | per therm |
| | Maximum (COG+25%) | \$0.3054 | |
| | | | |
| C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF | \$124,606 \$12,788 | | |
| C&I HLF TOTAL ADJUSTED DEMAND COSTS | \$137,394 | | |
| C&I HLF PROJECTED PRORATED SALES (05/01/20 - 10/31/20) DEMAND COST OF GAS RATE | 2,702,383 \$0.0508 | | |
| | | | |
| C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF | \$594,754 (\$27) | | |
| C&I HLF TOTAL ADJUSTED COMMODITY COSTS | \$594,727 | | |
| C&I HLF PROJECTED PRORATED SALES (05/01/20 - 10/31/20) | 2,702,383 | | |
| COMMODITY COST OF GAS RATE | \$0.2201 | | |
| | | | |
| INDIRECT COST OF GAS | (\$0.0266) | | |
| | (\$0.0266) \$0.2443 | | |

| COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/20 | COGwh | \$0.3116 per therm |
|---|--|---|
| | Maximum (COG+25%) | \$0.3895 |
| C&I LLF COMMODITY COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF C&I LLF TOTAL ADJUSTED DEMAND COSTS C&I LLF PROJECTED PRORATED SALES (05/01/20 - 10/31/20) DEMAND COST OF GAS RATE | \$271,219 \$27,835 \$299,054 2,532,740 \$0.1181 | |
| C&I LLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF C&I LLF TOTAL ADJUSTED COMMODITY COSTS C&I LLF PROJECTED PRORATED SALES (05/01/20 - 10/31/20) COMMODITY COST OF GAS RATE | \$557,418 (\$25) \$557,393 2,532,740 \$0.2201 | |
| INDIRECT COST OF GAS | (\$0.0266) | |
| TOTAL C&I LLF COST OF GAS RATE | \$0.3116 | |
| Issued: September 17, 2019 Effective Date: November 1, 2019 Authorized by NHPUC Order No, in Docket No. DG 19, dated | Issued By: | Christine Vaughan Senior Vice President |

Third Revised Page 62 Superseding Second Revised Page 62

N.H.P.U.C. No. 12 - Gas Northern Utilities, Inc.

Local Delivery Adjustment Clause

| Rate Schedule | RLIARA | EEC | LRR | ERC | ITMC | RCE | RPC | LDAC |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | | | | | | |
| Residential Heating | \$0.0036 | \$0.0499 | \$0.0114 | \$0.0057 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0706 |
| Residential Non-Heating | \$0.0036 | \$0.0499 | \$0.0114 | \$0.0057 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0706 |
| Small C&I | \$0.0036 | \$0.0247 | \$0.0019 | \$0.0057 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0359 |
| Medium C&I | \$0.0036 | \$0.0247 | \$0.0019 | \$0.0057 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0359 |
| Large C&I | \$0.0036 | \$0.0247 | \$0.0019 | \$0.0057 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0359 |
| No Previous Sales Service | | | | | | | | |

Issued: September 17, 2019

Effective: With Service Rendered On and After November 1, 2019

Authorized by NHPUC Order No. in Docket No., dated

Issued by: Christine Vaughan

Title: Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION WINTER SEASON RESIDENTIAL RATES

| | Winter Season | | Total | Total Bille | d Rates |
|-------------------------|----------------------------|----------|-----------------|--------------|---------|
| | November 2019 - April 2020 | Tariff | Delivery Rates | Tariff Rates | s, LDAC |
| | - | Rates | (Includes LDAC) | Plus Cost | of Gas |
| Residential Heating | Tariff Rate R 5: | | | | |
| | Monthly Customer Charge | \$22.20 | \$22.20 | | \$22.20 |
| | First 50 therms | \$0.6920 | \$0.7626 | \$1.3487 | |
| | All usage over 50 therms | \$0.6920 | \$0.7626 | \$1.3487 | |
| | LDAC | \$0.0706 | | | |
| | Gas Cost Adjustment: | | | | |
| | Cost of Gas | \$0.5861 | | | |
| Residential Heating | Tariff Rate R 10: | | | | |
| Low Income | Monthly Customer Charge | \$8.88 | \$8.88 | | \$8.88 |
| | First 50 therms | \$0.2768 | \$0.3474 | \$0.9335 | |
| | All usage over 50 therms | \$0.2768 | \$0.3474 | \$0.9335 | |
| | LDAC | \$0.0706 | | | |
| | Gas Cost Adjustment: | | | | |
| | Cost of Gas | \$0.5861 | | | |
| Residential Non-Heating | Tariff Rate R 6: | | | | |
| | Monthly Customer Charge | \$22.20 | \$22.20 | | \$22.20 |
| | First 10 therms | \$0.6470 | \$0.7176 | \$1.3037 | |
| | All usage over 10 therms | \$0.6470 | \$0.7176 | \$1.3037 | |
| | LDAC | \$0.0706 | | | |
| | Gas Cost Adjustment: | | | | |
| | Cost of Gas | \$0.5861 | | | |

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Effective: With Service Rendered On and After November 1, 2019 Issued by: <u>Christine Vaughan</u>
Authorized by NHPUC Order No. in Docket No. DG 19-, dated Title: Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION SUMMER SEASON RESIDENTIAL RATES

| | Summer Season | | Total | Total Bille | d Rates |
|-------------------------|--------------------------|----------|-----------------|--------------|---------|
| | May 2020 - October 2020 | Tariff | Delivery Rates | Tariff Rates | s, LDAC |
| | | Rates | (Includes LDAC) | Plus Cost | of Gas |
| Residential Heating | Tariff Rate R 5: | | | | |
| | Monthly Customer Charge | \$22.20 | \$22.20 | | \$22.20 |
| | First 50 therms | \$0.6099 | \$0.6805 | \$0.9573 | |
| | All usage over 50 therms | \$0.6099 | \$0.6805 | \$0.9573 | |
| | LDAC | \$0.0706 | | | |
| | Gas Cost Adjustment: | | | | |
| | Cost of Gas | \$0.2768 | | | |
| Residential Heating | Tariff Rate R 10: | | | | |
| Low Income | Monthly Customer Charge | \$8.88 | \$8.88 | | \$8.88 |
| | First 50 therms | \$0.2440 | \$0.3146 | \$0.5914 | |
| | All usage over 50 therms | \$0.2440 | \$0.3146 | \$0.5914 | |
| | LDAC | \$0.0706 | | | |
| | Gas Cost Adjustment: | | | | |
| | Cost of Gas | \$0.2768 | | | |
| Residential Non-Heating | Tariff Rate R 6: | | | | |
| | Monthly Customer Charge | \$22.20 | \$22.20 | | \$22.20 |
| | First 10 therms | \$0.6470 | \$0.7176 | \$0.9944 | |
| | All usage over 10 therms | \$0.6470 | \$0.7176 | \$0.9944 | |
| | LDAC | \$0.0706 | | | |
| | Gas Cost Adjustment: | | | | |
| | Cost of Gas | \$0.2768 | | | |

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Authorized by NHPUC Order No. in Docket No. DG 19-, dated Title: Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION

WINTER SEASON C&I RATES

| | Winter Season | | Total | Total Billed Rates |
|--|-----------------------------|---------------------|-----------------|--------------------|
| | November 2019 - April 2020 | Tariff | Delivery Rates | Tariff Rates, LDAC |
| | 7. 2010 | Rates | (Includes LDAC) | Plus Cost of Gas |
| C&I Low Annual/High Winter | Tariff Rate G 40: | 710100 | (| |
| Jan 2011 / Illinda / Mg. 17 miles | Monthly Customer Charge | \$75.09 | \$75.09 | \$75.09 |
| | First 75 therms | \$0.1865 | \$0.2224 | \$0.8306 |
| | All usage over 75 therms | \$0.1865 | \$0.2224 | \$0.8306 |
| | LDAC | \$0.0359 | * - | , |
| | Gas Cost Adjustment: | · | | |
| | Cost of Gas | \$0.6082 | | |
| | | ¥ 2.222 | l | |
| C&I Low Annual/Low Winter | Tariff Rate G 50: | | | |
| | Monthly Customer Charge | \$75.09 | \$75.09 | \$75.09 |
| | First 75 therms | \$0.1865 | \$0.2224 | \$0.7174 |
| | All usage over 75 therms | \$0.1865 | \$0.2224 | \$0.7174 |
| | LDAC | \$0.0359 | | |
| | Gas Cost Adjustment: | | | |
| | Cost of Gas | \$0.4950 | | |
| C&I Medium Annual/High Winter | Tariff Rate G 41: | | | |
| activities and the second seco | Monthly Customer Charge | \$222.64 | \$222.64 | \$222.64 |
| | All usage | \$0.2425 | \$0.2784 | \$0.8866 |
| | LDAC | \$0.0359 | ψ0.2704 | ψ0.0000 |
| | - | ψ0.0000 | | |
| | Gas Cost Adjustment: | ¢0.000 | | |
| | Cost of Gas | \$0.6082 | | |
| C&I Medium Annual/Low Winter | Tariff Rate G 51: | | | |
| | Monthly Customer Charge | \$222.64 | \$222.64 | \$222.64 |
| | First 1,300 therms | \$0.1712 | \$0.2071 | \$0.7021 |
| | All usage over 1,300 therms | \$0.1399 | \$0.1758 | \$0.6708 |
| | LDAC | \$0.0359 | | |
| | Gas Cost Adjustment: | 40.000 | | |
| | Cost of Gas | \$0.4950 | | |
| | | , | I T | |
| C&I High Annual/High Winter | Tariff Rate G 42: | # 4 00 = 6 : | A4 00 0 0 1 | A4 00 = 01 |
| | Monthly Customer Charge | \$1,335.81 | \$1,335.81 | \$1,335.81 |
| | All usage | \$0.1984 | \$0.2343 | \$0.8425 |
| | LDAC | \$0.0359 | | |
| | Gas Cost Adjustment: | | | |
| | Cost of Gas | \$0.6082 | | |
| C&I High Annual/Low Winter | Tariff Rate G 52: | | | |
| | Monthly Customer Charge | \$1,335.81 | \$1,335.81 | \$1,335.81 |
| | All usage | \$0.1720 | \$0.2079 | \$0.7029 |
| | LDAC | \$0.0359 | V 3.2373 | |
| | Gas Cost Adjustment: | φυ.υ359 | | |
| | | ¢0.4050 | | |
| | Cost of Gas | \$0.4950 | | |

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Issued by: Christine Vaughan
Title: Senior Vice President

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

| | Summer Season May 2020 - October 2020 | 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 | \$75.09 \$0.1865 \$0.1865 \$0.0359 \$0.3116 | \$75.09 \$0.2224 \$0.2224 | \$75.09 \$0.5340 \$0.5340 |
| 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 | \$75.09 \$0.1865 \$0.1865 \$0.0359 \$0.2443 | \$75.09 \$0.2224 \$0.2224 | \$75.09 \$0.4667 \$0.4667 |
| C&I Medium Annual/High Winter | Tariff Rate G 41: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas | \$222.64 \$0.1895 \$0.0359 \$0.3116 | \$222.64 \$0.2254 | \$222.64 \$0.5370 |
| 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 | \$222.64 \$0.1337 \$0.1087 \$0.0359 | \$222.64 \$0.1696 \$0.1446 | \$222.64 \$0.4139 \$0.3889 |
| C&I High Annual/High Winter | Tariff Rate G 42: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas | \$1,335.81 \$0.1206 \$0.0359 \$0.3116 | \$1,335.81 \$0.1565 | \$1,335.81 \$0.4681 |
| C&I High Annual/Low Winter | Tariff Rate G 52: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas | \$1,335.81 \$0.0792 \$0.0359 \$0.2443 | \$1,335.81 \$0.1151 | \$1,335.81 \$0.3594 |

Issued: September 17, 2019

Effective: With Service Rendered On and After May 1, 2020

Authorized by NHPUC Order No. in Docket No. DG 19-, dated

Issued by: Christine Vaughan
Title: Senior Vice President

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.

<u>II. Peaking Service Demand Charge:</u>
November 2019 through April 2020.

\$ 65.41 per MMBtu per MDPQ per month for

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

III. Company Allowance Calculation: 1.38% - Provided in Schedule 18-FXW

IV. Supplier Services and Associated Fees:

| <u>SERVICE</u> | PRICING |
|--|---|
| Pool Administration (required) | • \$0.10/month/customer billed @ marketer level |
| Non-Daily Metered Pools only | |
| 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 |

| V. Meter Read Charge: \$78.00 when customer phone line is not reporting daily | iaiiv data |
|--|------------|
|--|------------|

| Issued: | September 17, 2019 | Issue | ed by: | Christine Vaughan |
|--------------|--------------------|-----------------------|--------|-----------------------|
| Effective: | November 1, 2019 | | _ | Senior Vice President |
| Authorized b | y NHPHC Order No | in Docket No. DG 19 - | dated | |

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, 2019 through October 31, 2020.

Commercial and Industrial

| | High Winter Use | Low Winter Use |
|-----------|-----------------|----------------|
| Pipeline: | 9.35% | 48.43% |
| Storage: | 34.33% | 19.53% |
| Peaking: | 56.32% | 32.04% |

| Issued: | September 17, 2019 | - | Issued by: | Christine Vaughan |
|------------|--------------------|---------------------|------------|-----------------------|
| Effective: | November 1, 2019 | | | Senior Vice President |
| Authorized | by NHPUC Order No. | in Docket No. DG19- | . dated | _ |

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, 2019 through April 30, 2020 and May 1, 2020 through October 2020.

| Effective Dates: | November 1, 2019 – April 30, 2020 | May 1, 2020 – October 30, 2020 |
|--|--------------------------------------|-----------------------------------|
| Re-entry Surcharge: | \$0.0409 per therm | \$0.0406 per therm |
| Conversion Surcharge, Low Load Factor (G-40, G-41, G-42): | \$0.1405 per therm | \$0.0406 per therm |
| Conversion Surcharge, High Load Factor (G-50, G-51, G-52): | \$0.2537 per therm | \$0.0406 per therm |

Issued: September 17, 2019

Effective: November 1, 2019

Issued by: Christine Vaughan

Title: Senior Vice President

Anticipated Cost of Gas

New Hampshire Division
Period Covered: November 1, 20189 - October 31, 201920

| (Col 1) | | | (Col 2) | | | (Col 3) |
|---|--|----------|--|--------------------------|---------|--|
| ANTICIPATED DIRECT COST OF GAS | | | | | | |
| Purchased Gas: Demand Costs: Supply Costs: | \$ 1,683,109 \$ 4,439,439 | \$ | 1,399,977 4,289,717 | | | |
| Storage & Peaking Gas: Demand, Capacity: Commodity Costs: | \$ 13,190,356 \$ 10,942,865 | \$ | 12,012,257 9,816,975 | | | |
| Interruptible Included Above | \$ | \$ | - | | | |
| Inventory Finance Charge | \$ 3,017 | \$ | 2,734 | | | |
| Capacity Release | \$ (3,126,083) | \$ | (6,057,829) | | | |
| Re-entry Rate & Conversion Rate Revenues | \$————————————————————————————————————— | \$ | (10,000) | | | |
| Total Anticipated Direct Cost of Gas | | | | \$ 27,122,704 | \$ | 21,453,831 |
| ANTICIPATED INDIRECT COST OF GAS Adjustments: Prior Period Under/(Over) Collection Interest Refunds Interruptible Margins Total Adjustments Working Capital: Total Anticipated Direct Cost of Gas Working Capital Percentage Working Capital Allowance | \$ 551,842 \$ (23,538) \$ \$ \$ 27,122,704 \$ 74,383 | \$\$\$\$ | (1,406,949) (29,113) - - 21,453,831 0.2880% 61,778 | \$528,304 | \$ | (1,436,062) |
| Plus: Working Capital Reconciliation (Acct 173 | , | \$ \$ | (35,633) | | | |
| Total Working Capital Allowance | | | | \$ 82,323 | \$ | 26,145 |
| Bad Debt: | | | | | | |
| Bad Debt Allowance Plus: Bad Debt Reconciliation (Acct 173) Total Bad Debt Allowance | \$ 177,230 \$ (15,500) | \$ | 153,235 (2,792) | \$ <u>161,730</u> | \$ | 150,444 |
| Local Production and Storage Capacity | | | | \$ 476,106 | \$ | 476,106 |
| Miscellaneous Overhead-81.5980.55% Alloca | ted to Winter Sea | sor | า | \$ 471,052 | \$ | 467,545 |
| Total Anticipated Indirect Cost of Gas | | | | \$ 1,719,515 | \$ | (315,822) |
| Total Cost of Gas | | | | \$ 28,842,220 | \$ | 21,138,010 |
| Issued: November 5, 2018 September 17, 2019 Effective Date: November 1, 20189 | L. | | | Issued By: | <u></u> | Hark Collin Christine Vaughan Senior Vice President |
| | | | | | | |

Anticipated Cost of Gas

New Hampshire Division Period Covered: May 1, 201920 - October 31, 201929

| Authorized by NHPUC Order No, in Docket | No DC 10 data | .d ' | 2019 | Senior vice Fre | SIUCIII |
|---|---|----------------------------------|------------------------|-----------------------|-----------|
| Effective Date: May 1, 2019 2020 | | | | Senior Vice Pre | |
| Issued: November 5, 2018 September 17, 2019 | | | | Mark Collin Christine | - Vaudhan |
| Total Cost of Gas | | | \$2,973,477 | <u>\$2,410,862</u> | |
| Total Anticipated Indirect Cost of Gas | | | \$ 212,629 | <u>(\$231,620)</u> | |
| Miscellaneous Overhead- <mark>18.41<u>19.45</u>% Allocated to</mark> | tne Summer Seasor | 1 | \$109,403 | \$112,910 | |
| Local Production and Storage Capacity | the Common Co | | \$0 *100.100 | <u>\$0</u> | |
| Total Bad Debt Allowalice | | | \$7,017 | <u>917,770</u> | |
| Total Bad Debt Allowance | | | \$7,817 | \$14,47 <u>0</u> | |
| Plus: Bad Debt Reconciliation (Acct 173) | (\$3,600) | <u>\$13,143</u> (\$674) | | | |
| Bad Debt: Bad Debt Allowance | \$11,146 | \$15,143 | | | |
| Bad Debt: | | | Ψ>,110 | (4970) | |
| Total Working Capital Allowance | + -/ | | \$9.416 | (\$996) | |
| Plus: Working Capital Reconciliation (Acct 173) | \$1,844 | (\$8,605) | | | |
| Total Anticipated Direct Cost of Gas Working Capital Percentage Working Capital Allowance | \$2,760,847 0.2740% \$7,572 | \$2,642,482 0.288% \$7,609 | | | |
| Working Capital: | | | \$03,771 | <u>[4330,003]</u> | |
| Interruptible Margins Total Adjustments | \$0 | \$0 | \$85,994 | (\$358,003) | |
| Refunds | \$0 | \$0 | | | |
| Adjustments: Prior Period Under/(Over) Collection Interest | \$128,167 (\$42,173) | (\$339,771) (\$18,232) | | | |
| ANTICIPATED INDIRECT COST OF GAS | | | 1-). 20)2 2 | ,, | |
| Total Anticipated Direct Cost of Gas | | | \$2,760,848 | \$2.642.481 | |
| Re-entry Rate & Conversion Rate Revenues | \$0 | \$0 | | | |
| Capacity Release & Asset Management | \$0 | \$0 | | | |
| Inventory Finance Charge | \$0 | \$0 | | | |
| Commodity Costs: Interruptible Included Above | \$31,552 \$0 | <u>\$15,556</u> \$0 | | | |
| Storage & Peaking Gas: Demand, Capacity: | \$369,400 | \$351,629 | | | |
| Demand Costs: Supply Costs: | \$386,679 \$1,973,217 | \$374,176 \$1,901,121 | | | |
| Purchased Gas: | | | | | |
| ANTICIPATED DIRECT COST OF GAS | | | | | |

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: November 1, 201819 - April 30, 201920

| (Col 1) | (Col 2) | | (Col 3) | | | |
|--|--|--|---|----------------------|------------------------|--|
| Total Anticipated Direct Cost of Gas | \$ 27,122,70 4 | \$21,453,831 | | | | |
| Projected Prorated Sales (11/01/4819 - 04/30/4920) Direct Cost of Gas Rate | 34,882,919 | 36,062,011 | \$0.7775 | \$0.5949 | per therm | |
| | | | | | | |
| Demand Cost of Gas Rate Commodity Cost of Gas Rate | \$11,747,382 \$15,382,305 | <u>\$7,344,405</u> \$14,106,692 | \$0.3368 \$0.4410 | \$0.2037 \$0.3912 | per therm per therm | |
| Total Direct Cost of Gas Rate | \$ 27,128,686 | \$21,451,097 | \$0.7778 | \$0.5949 | per therm | |
| Total Anticipated Indirect Cost of Gas | \$1.719.515 | (\$315,822) | | | | |
| Projected Prorated Sales (11/01/ 18 19 - 04/30/ 19 20) | 34,882,919 | 36,062,011 | | | | |
| Indirect Cost of Gas | | | \$0.0493 | (\$0.0088) | per therm | |
| TOTAL PERIOD AVERAGE COST OF GAS | | | \$0.8271 | \$0.5861 | per therm | |
| | | | | | • | |
| Period endig under-collection to be recovered as determined on 11/20/2018 Projected Sales (12/01/18 ~ 04/30/2019) | \$2,089,524 30,651,027 | | | | | |
| Per unit change in Cost of Gas (12/01/18 - 04/30/18) | \$0.0682 | | | | | |
| | | | | | | |
| Period endig under-collection to be recovered as determined on 12/21/2018 Projected Sales (01/01/19 - 04/30/2019) | (\$803,174) 24,024,712 | | | | | |
| Per unit change in Cost of Gas (01/01/19 - 04/30/19) | (\$0.0334) | | | | | |
| Period endig under-collection to be recovered as determined on 2/22/2019 | (\$894,495) | | | | | |
| Projected Sales (03/01/19 - 04/30/2019) | 9,240,858 | | | | | |
| Per unit change in Cost of Gas (03/01/19 - 04/30/19) | (\$0.0968) | | | | | |
| | | | | | | |
| RESIDENTIAL COST OF GAS RATE -03/01/19-11/01/19 | COGwr | | \$0.7650 <u>\$0.5861</u> | | per therm | |
| | Maximum (COG+25%) | | \$1.0339 <u>\$0.7326</u> | | | |
| RESIDENTIAL COST OF GAS RATES - 11/01/2018 | | | \$0.8271 | | | |
| CHANGE IN PER UNIT COST | | | \$0.0682 | | | |
| RESIDENTIAL COST OF GAS RATES - 12/01/2018 CHANGE IN PER UNIT COST | | | \$0.8953 (\$0.0334) | | | |
| RESIDENTIAL COST OF GAS RATES - 01/01/2019 CHANGE IN PER UNIT COST | | | \$0.8618 | | | |
| RESIDENTIAL COST OF GAS RATES - 03/01/2019 | | | (\$0.0968) \$0.7650 | | | |
| | | | · | | | |
| COM/IND LOW WINTER USE COST OF GAS RATE - 03/01/19-11/01/19 | COGwl | | \$0.6633 \$0.4950 | | per therm | |
| | Maximum (COG+25%) | | \$0.9068 \$0.6188 | | | |
| | | | | | | |
| COM/IND LOW WINTER USE COST OF GAS RATES - 11/01/2018 CHANGE IN PER UNIT COST | | | \$0.7254 \$0.0682 | | | |
| COM/IND LOW WINTER USE COST OF GAS RATES - 12/01/2018 | | | \$0.7936 | | | |
| | | | | | | |
| CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATES - 01/01/2019 | | | (\$0.0334) | | | |
| COM/IND LOW WINTER USE COST OF GAS RATES - 01/01/2019 CHANGE IN PER UNIT COST | | | (\$0.0334) \$0.7601 (\$0.0968) | | | |
| COM/IND LOW WINTER USE COST OF GAS RATES - 01/01/2019 | | | (\$0.0334) \$0.7601 | | | |
| COMIND LOW WINTER USE COST OF GAS RATES -01/01/2019 CHANGE IN PER UNIT COST COMIND LOW WINTER USE COST OF GAS RATES -03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA | | <u>\$505,175</u> | (\$0.0334) \$0.7601 (\$0.0968) | | | |
| COMIND LOW WINTER USE COST OF GAS RATES -01/01/2019 CHANGE IN PER UNIT COST COMIND LOW WINTER USE COST OF GAS RATES -03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF | _ | \$30,878 | (\$0.0334) \$0.7601 (\$0.0968) | | | |
| COMIND LOW WINTER USE COST OF GAS RATES -01/01/2019 CHANGE IN PER UNIT COST COMIND LOW WINTER USE COST OF GAS RATES -03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) | _ | \$30,878 \$536,053 3,762,682 | (\$0.0334) \$0.7601 (\$0.0968) | | | |
| COMIND LOW WINTER USE COST OF GAS RATES -01/01/2019 CHANGE IN PER JUNT COST COMIND LOW WINTER USE COST OF GAS RATES -03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO CAI HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS | _ | \$30,878 \$536,053 | (\$0.0334) \$0.7601 (\$0.0968) | | | |
| COMIND LOW WINTER USE COST OF GAS RATES - 01/01/2019 CHANGE IN PER JUNT COST COMIND LOW WINTER USE COST OF GAS RATES - 03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA | _ | \$30,878 \$536,053 3,762,682 \$0.1425 \$1,352,376 | (\$0.0334) \$0.7601 (\$0.0968) | | | |
| COMIND LOW WINTER USE COST OF GAS RATES -01/01/2019 CHANGE IN PER JUNT COST COMIND LOW WINTER USE COST OF GAS RATES -03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO CAI HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS CAI HLF FOR LECTED PRORATED SALES (11/01/201819 - 04/30/201920) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF | _ | \$30.878 \$536.053 3.762.682 \$0.1425 \$1.352.376 \$6.954 | (\$0.0334) \$0.7601 (\$0.0968) | | | |
| COMIND LOW WINTER USE COST OF GAS RATES -01/01/2019 CHANGE IN PER JUNT COST COMIND LOW WINTER USE COST OF GAS RATES -03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO CAI HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF FORD, LECTED PRORATED SALES (11/01/201819 - 04/30/201920) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED COMMODITY COSTS C&I HLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) | <u> </u> | \$30.878 \$536.053 3,762.682 \$0.1425 \$1,352,376 \$6.954 \$1,359,330 3,762.682 | (\$0.0334) \$0.7601 (\$0.0968) | | | |
| COMIND LOW WINTER USE COST OF GAS RATES - 01/01/2019 CHANGE IN PER UNIT COST COMIND LOW WINTER USE COST OF GAS RATES - 03/01/2019 CALIFIC PERMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF CALIFIC TOTAL ADJUSTED DEMAND COSTS CALIFIC TOTAL ADJUSTED DEMAND COSTS CALIFIC PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED COMMODITY CASTS | | \$30,878 \$536,053 3,762,682 \$0.1425 \$1,352,376 \$6,954 \$1,359,330 | (\$0.0334) \$0.7601 (\$0.0968) | | | |
| COMIND LOW WINTER USE COST OF GAS RATES -01/01/2019 CHANGE IN PER JUNT COST COMIND LOW WINTER USE COST OF GAS RATES -03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO CAI HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF FORD, LECTED PRORATED SALES (11/01/201819 - 04/30/201920) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED COMMODITY COSTS C&I HLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) | _ _ _ | \$30.878 \$536.053 3,762.682 \$0.1425 \$1,352,376 \$6.954 \$1,359,330 3,762.682 | (\$0.0334) \$0.7601 (\$0.0968) | | | |
| COMIND LOW WINTER USE COST OF GAS RATES - 01/01/2019 CHANGE IN PER JUNT COST COMIND LOW WINTER USE COST OF GAS RATES - 03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED COMMODITY COSTS C&I HLF TOTAL ADJUSTED COMMODITY COSTS C&I HLF TOTAL ADJUSTED COMMODITY COSTS C&I HLF TOTAL COST OF GAS RATE | _ | \$30.878 \$536.053 3,762.682 \$0.1425 \$1.352.376 \$6.954 \$1.359.330 3,762.682 \$0.3613 | (\$0.0334) \$0.7601 (\$0.0968) | | | |
| COMIND LOW WINTER USE COST OF GAS RATES - 01/01/2019 CHANGE IN PER LINIT COST COMIND LOW WINTER USE COST OF GAS RATES - 03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&IHLF TOTAL ADJUSTED DEMAND COSTS C&IHLF TOTAL ADJUSTED DEMAND COSTS C&IHLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&IHLF TOTAL ADJUSTED COMMODITY COSTS C&I HLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) COMMODITY COST OF GAS RATE INDIRECT COST OF GAS TOTAL C&I HLF COST OF GAS RATE | | \$30,878 \$536,053 3,762,682 \$0,1425 \$1,352,376 \$6,954 \$1,352,330 3,762,682 \$0,3613 \$5,00088 | (\$0.0334) \$0.7604 (\$0.0968) \$0.6633 | | | |
| COMIND LOW WINTER USE COST OF GAS RATES - 01/01/2019 CHANGE IN PER JUNT COST COMIND LOW WINTER USE COST OF GAS RATES - 03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED COMMODITY COSTS C&I HLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) COMMODITY COST OF GAS RATE | COGwh | \$30,878 \$536,053 3,762,682 \$0,1425 \$1,352,376 \$6,954 \$1,352,330 3,762,682 \$0,3613 \$5,00088 | (\$0.0334) \$0.7604 (\$0.0968) \$0.6633 | | per therm | |
| COMIND LOW WINTER USE COST OF GAS RATES - 01/01/2019 CHANGE IN PER LINIT COST COMIND LOW WINTER USE COST OF GAS RATES - 03/01/2019 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&IHLF TOTAL ADJUSTED DEMAND COSTS C&IHLF TOTAL ADJUSTED DEMAND COSTS C&IHLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&IHLF TOTAL ADJUSTED COMMODITY COSTS C&I HLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) COMMODITY COST OF GAS RATE INDIRECT COST OF GAS TOTAL C&I HLF COST OF GAS RATE | COGwh Maximum (COG+25%) | \$30,878 \$536,053 3,762,682 \$0,1425 \$1,352,376 \$6,954 \$1,352,330 3,762,682 \$0,3613 \$5,00088 | (\$0.0334) \$0.7604 (\$0.0968) \$0.6633 | | per therm | |
| COMIND LOW WINTER USE COST OF GAS RATES—01/01/2019 CHANGE IN PER UNIT COST COMIND LOW WINTER USE COST OF GAS RATES—03/01/2019 CALIFIC PERMAND COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL DEMAND RELOCATION TO CALIFIC CALIFIC TOTAL ADJUSTED DEMAND COSTS CALIFIC PROJECTED PRORATED SALES CALIFIC FOLIMODITY COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL COMMODITY REALLOCATION TO CALIFIC CALIFIC FORMODITY COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL COMMODITY REALLOCATION TO CALIFIC CALIFIC TOTAL ADJUSTED COMMODITY COSTS CALIFIC FOLIMODITY AND SALES (11/01/201819 - 04/30/201920) COMMODITY COST OF GAS RATE INDIRECT COST OF GAS TOTAL CALIFIC TOST OF GAS RATE COM/IND HIGH WINTER USE COST OF GAS RATE - 03/01/49-11/01/19 COMMOD HIGH WINTER USE COST OF GAS RATES—11/01/2018 | | \$30,878 \$536,053 3,762,682 \$0,1425 \$1,352,376 \$6,954 \$1,352,330 3,762,682 \$0,3613 \$5,00088 | \$0.7803 \$0.6082 \$1.0530 \$0.7603 | | per therm | |
| COM/IND LOW WINTER USE COST OF GAS RATES - 01/01/2019 CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATES - 03/01/2019 CALIFIC DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO CALIFIC CALIFIC TOTAL ADJUSTED DEMAND COSTS CALIFIC TOTAL ADJUSTED DEMAND COSTS CALIFIC TOTAL ADJUSTED DEMAND COSTS CALIFIC FROMEOTIC DEPORTATED SALES (11/01/201819 - 04/30/201920) DEMAND COST OF GAS RATE CALIFIC TOTAL ADJUSTED COMMODITY COSTS COMMODITY COST OF GAS RATE COM/IND HIGH WINTER USE COST OF GAS RATE - 03/01/49-11/01/19 COM/IND HIGH WINTER USE COST OF GAS RATE - 03/01/49-11/01/19 COM/IND HIGH WINTER USE COST OF GAS RATES - 11/01/2018 CHANGE IN PER JUNIT COST | | \$30,878 \$536,053 3,762,682 \$0,1425 \$1,352,376 \$6,954 \$1,352,330 3,762,682 \$0,3613 \$5,00088 | \$0.7803 \$0.6082 \$1.0509 \$0.7603 \$0.6633 | | per therm | |
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| COMIND LOW WINTER USE COST OF GAS RATES -01/01/2019 CHANGE IN PER UNIT COST COMIND LOW WINTER USE COST OF GAS RATES -03/01/2019 CALIFIC DEMAND COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL DEMAND RELOCATION TO CALIFIC CALIFIC TOTAL ADJUSTED DEMAND COSTS CALIFIC PROJECTED PRORATED SALES (11/01/201819 - 04/30/201920) DEMAND COST OF GAS RATE CALIFIC COMMODITY COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL COMMODITY REALLOCATION TO CALIFIC CALIFIC TOTAL ADJUSTED COMMODITY COSTS COMMOD HIGH WINTER USE COST OF GAS RATE - 03/01/19/11/2018 COMMOD HIGH WINTER USE COST OF GAS RATES - 11/01/2018 CHANGE IN PER UNIT COST COMMOD HIGH WINTER USE COST OF GAS RATES - 12/01/2018 CHANGE IN PER UNIT COST COMMOD HIGH WINTER USE COST OF GAS RATES - 01/01/2019 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES - 01/01/2019 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES - 01/01/2019 CALIFIC OMMODITY COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL DEMAND REALLOCATION TO CALIFIC CALIFIC TOTAL ADJUSTED DEMAND COSTS CALIFIC TOMODITY COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL DEMAND REALLOCATION TO CALIFIC CALIFIC TOTAL ADJUSTED DEMAND COSTS CALIFIC TOMODITY COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL DEMAND REALLOCATION TO CALIFIC CALIFIC TOTAL ADJUSTED COMMODITY REALLOCATION TO CALIFIC CALIFIC TOTAL ADJUSTED COMMODITY COSTS CALIFIC TOMODITY C | | \$30,878 \$536,053 3,762,682 \$0,1425 \$1,352,376 \$6,954 \$1,359,330 3,762,682 \$0,3613 \$0,4950 \$3,391,419 15,521,733 \$0,2185 \$6,154,139 \$31,647 \$6,185,785 \$1,562,1733 | \$0.7803 \$0.6082 \$1.0530 \$0.7603 \$0.7803 \$0.6082 \$1.0530 \$0.7603 \$0.8424 \$0.0682 \$0.9106 \$0.8771 \$0.0968) | | per therm | |
| COM/IND HIGH WINTER USE COST OF GAS RATES - 03/01/2019 CALINEE TOTAL ADJUSTED DEMAND COSTS ALL OCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF CAI HLF FOTAL ADJUSTED DEMAND COSTS CAI HLF FOTAL ADJUSTED COMMODITY COSTS COMMOD HIGH WINTER USE COST OF GAS RATE - 03/01/49 11/01/19 COM/IND HIGH WINTER USE COST OF GAS RATES - 11/01/2018 CHANCE IN PER UNIT COST COM/IND HIGH WINTER USE COST OF GAS RATES - 12/01/2018 CHANCE IN PER UNIT COST COM/IND HIGH WINTER USE COST OF GAS RATES - 03/01/2019 CHANCE IN PER UNIT COST COM/IND HIGH WINTER USE COST OF GAS RATES - 03/01/2019 CHANCE IN PER UNIT COST COM/IND HIGH WINTER USE COST OF GAS RATES - 03/01/2019 CHANCE IN PER UNIT COST COM/IND HIGH WINTER USE COST OF GAS RATES - 03/01/2019 CHANCE IN PER UNIT COST COM/IND HIGH WINTER USE COST OF GAS RATES - 03/01/2019 CAILLE COMMODITY COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL DEMAND REALLOCATION TO CAI LLF CAI LLF TOTAL ADJUSTED DEMAND COSTS CAI HLF PROJECTED PRORATED SALES (11/01/201819 - 04/30/2019/20) DEMAND COST OF GAS RATE CAI LLF FOR EXECUTED PRORATED SALES (11/01/201819 - 04/30/2019/20) DEMAND COST OF GAS RATE CAI LLF FOR EXECUTED PRORATED SALES (11/01/201819 - 04/30/2019/20) DEMAND COST OF GAS RATE CAI LLF FOR EXECUTED PRORATED SALES (11/01/201819 - 04/30/2019/20) DEMAND COST OF GAS RATE CAI LLF FOR EXECUTED PRORATED SALES (11/01/201819 - 04/30/2019/20) COMMODITY COST OF GAS RATE | | \$30,878 \$536,053 3,762,682 \$0,1425 \$1,352,376 \$6,954 \$1,359,330 3,762,682 \$0,3613 \$0,0088 \$0,4950 \$3,196,065 \$195,354 \$3,391,419 15,521,733 \$0,2185 \$6,154,139 \$31,647 \$6,185,785 15,521,733 \$0,3985 | \$0.7803 \$0.6082 \$1.0530 \$0.7603 \$0.7803 \$0.6082 \$1.0530 \$0.7603 \$0.8424 \$0.0682 \$0.9106 \$0.8771 \$0.0968) | | per therm | |
| COMMD LOW WINTER USE COST OF GAS RATES -01/01/2019 CHANGE IN PER UNIT COST COMIND LOW WINTER USE COST OF GAS RATES -03/01/2019 CALIHLE DEMAND COSTS ALL OCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO CALIHLE CALIHLE TOTAL ADJUSTED DEMAND COSTS CALIHLE TOTAL ADJUSTED DEMAND COSTS CALIHLE TOTAL ADJUSTED DEMAND COSTS CALIHLE TOTAL ADJUSTED COMMODITY COSTS COMIND HIGH WINTER USE COST OF GAS RATE COMIND HIGH WINTER USE COST OF GAS RATES -03/01/49-11/01/19 COMIND HIGH WINTER USE COST OF GAS RATES -11/01/2018 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES -03/01/2019 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES -03/01/2019 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES -03/01/2019 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES -03/01/2019 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES -03/01/2019 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES -03/01/2019 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES -03/01/2019 CALILE COMMODITY COSTS ALLO CATED PER SMBA PLUS RESIDENTIAL DEMAND REALLO CATION TO CALLE CALILE TOTAL ADJUSTED DEMAND COSTS CALIHLE FOR COMMODITY COSTS CALIHLE FOR COST OF GAS RATE INDIRECT COST OF GAS RATE | | \$30,878 \$536,053 3,762,682 \$0,1425 \$1,352,376 \$6,954 \$1,359,330 3,762,682 \$0,3613 \$0,0088 \$0,4950 \$3,391,419 15,521,733 \$0,2185 \$6,154,139 \$3,164,197 \$6,185,785 \$5,1521,733 \$0,2185 \$6,154,139 \$3,164,197 \$6,185,785 \$1,521,733 \$0,3985 \$6,00088 \$0,0088 | \$0.7803 \$0.6082 \$0.7803 \$0.6082 \$1.0530 \$0.7603 \$0.9682 \$0.9682 \$0.9106 \$0.9271 \$0.9271 \$0.9283 | an | per therm | |
| COMIND LOW WINTER USE COST OF GAS RATES -03/01/2019 CHANGE IN PER UNIT COST COMIND LOW WINTER USE COST OF GAS RATES -03/01/2019 CALILLE DEMAND COSTS ALL OCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO CALILLE CALILLE FOTAL ADJUSTED DEMAND COSTS CALILLE FOTAL ADJUSTED DEMAND COSTS CALILLE FOR GAS RATE CALILLE FOR COMIND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO CALILLE CALILLE TOTAL ADJUSTED COMMODITY COSTS CALILLE FOTAL ADJUSTED COMMODITY COSTS CALILLE FOTAL ADJUSTED COMMODITY COSTS CALILLE FOR GAS RATE COMIND HIGH WINTER USE COST OF GAS RATE - 03/01/19-11/01/19 COMIND HIGH WINTER USE COST OF GAS RATE - 03/01/19-11/01/19 COMIND HIGH WINTER USE COST OF GAS RATES - 11/01/2018 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES - 03/01/19-11/01/19 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES - 03/01/2019 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES - 03/01/2019 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES - 03/01/2019 CHANGE IN PER UNIT COST COMIND HIGH WINTER USE COST OF GAS RATES - 03/01/2019 CELLLE COMMODITY COSTS ALLOCATED PER SMBA PLUS RESIDENTIAL DEMAND REALLOCATION TO CALILLE CALILLE TOTAL ADJUSTED DEMAND COSTS CALILLE FOR COMMODITY COSTS CALILLE FOR COMMODITY COSTS CALILLE FOR COMMODITY COSTS CALILLE FOR COMMODITY COSTS CALILLE FOR CALILLE COMMODITY COSTS CALILLE FROM COMMOD | | \$30,878 \$536,053 3,762,682 \$0,1425 \$1,352,376 \$6,954 \$1,359,330 3,762,682 \$0,3613 (\$0,0088) \$3,196,065 \$195,354 \$3,391,419 \$15,521,733 \$0,2185 \$6,154,139 \$31,647 \$6,185,785 \$15,521,733 \$0,3985 (\$0,0088) | \$0.7803 \$0.6082 \$1.0530 \$0.7603 \$0.7803 \$0.6082 \$1.0530 \$0.7603 \$0.8424 \$0.0682 \$0.9106 \$0.8771 \$0.0968) | | per therm | |

CALCULATION OF FIRM SALES COST OF GAS RATE

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

| (Col 1) | (Col 2) | (Col 2) | (Col 3) | (Col 3) | |
|--|--|--|---|----------------------|------------------------|
| Total Anticipated Direct Cost of Gas Projected Prorated Sales (05/01/19 10/31/19) (05/01/20 - 10/31/20) | \$ 2,760,547 | <u>\$2,642,482</u> 8,708,801 | | | |
| Direct Cost of Gas Rate | | | \$0.3407 | <u>\$0.3034</u> | per therm |
| Demand Cost of Gas Rate Commodity Cost of Gas Rate | \$756,079 \$2,004,769 | <u>\$725,806</u> \$1,916,677 | \$0.0933 \$0.2475 | \$0.0833 \$0.2201 | per therm per therm |
| Total Direct Cost of Gas Rate | \$ 2,760,848 | \$2,642,482 | \$0.3408 | \$0.3034 | per therm |
| Total Anticipated Indirect Cost of Gas | \$ 212,629 | (\$231,620) | | | |
| Projected Prorated Sales (05/01/19-10/31/19) (05/01/20 - 10/31/20) Indirect Cost of Gas | 8,101,656 _ | 8,708,801 | \$0.0262 | (\$0.0266) | per therm |
| TOTAL PERIOD AVERAGE COST OF GAS | | | \$0.3670 | \$0.2768 | per therm |
| Period ending over-collection to be recovered | (\$528,665) | (\$528,665) | ψο.5010 | \$0.2700 | per trierin |
| Projected sales (07/01/19 - 10/31/19) | | 5,161,451 | | | |
| Per unit change in Cost of Gas (07/01/19 - 10/31/19) | (\$0.1024) | (\$0.1024) | | | |
| RESIDENTIAL COST OF GAS RATE -05/01A-920 | COGwr | | \$ 0.2646 \$0.2768 | | per therm |
| RESIDENTIAL SOUT OF GROTATE SOUTH SEE | Maximum (COG+25%) | | \$ 0.4969 \$0.3460 | | per therm |
| | | | | | |
| RESIDENTIAL COST OF GAS RATE - 5/01/19 | | | \$0.3670 | | |
| CHANGE IN PER UNIT COST | | | (\$0.1024) | | |
| RESIDENTIAL COST OF GAS RATE 07/01/19 | | | \$0.2646 | | |
| | | | | | |
| COM/IND LOW WINTER USE COST OF GAS RATE - 05/01#920 | COGwl | | \$0.2245 \$0.2443 | | per therm |
| COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/1920 | | | | | per therm |
| _ | COGwl Maximum (COG+25%) | | \$0.4429 <u>\$1.0339</u> | | per therm |
| COM/IND LOW WINTER USE COST OF GAS RATE 5/01/19 | | | \$0.4429-\$1.0339 \$0.3269 | | per therm |
| _ | | | \$0.4429 <u>\$1.0339</u> | | per therm |
| COM/IND LOW WINTER USE COST OF GAS RATE - 5/01/10 CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATE - 07/01/10 | | | \$0.4429 \$1.0339 \$0.3260 (\$0.1024) | | per therm |
| COM/IND LOW WINTER USE COST OF GAS RATE 5/01/19 CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATE 07/01/19 C&I HLF DEMAND COSTS ALLOCATED PER SMBA | | \$124.60 <u>6</u> | \$0.4429 \$1.0339 \$0.3260 (\$0.1024) | | per therm |
| COM/IND LOW WINTER USE COST OF GAS RATE - 5/01/10 CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATE - 07/01/10 | | | \$0.4429 \$1.0339 \$0.3260 (\$0.1024) | | per therm |
| COM/IND LOW WINTER USE COST OF GAS RATE 5/01/19 CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATE 07/01/19 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (05/01/20-10/31/20) | | \$124,606 \$12,788 \$137,394 2,702,383 | \$0.4429 \$1.0339 \$0.3260 (\$0.1024) | | per therm |
| COM/IND LOW WINTER USE COST OF GAS RATE - 5/01/19 CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATE - 07/01/19 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS | | \$124.606 \$12.788 \$137.394 | \$0.4429 \$1.0339 \$0.3260 (\$0.1024) | | per therm |
| COM/IND LOW WINTER USE COST OF GAS RATE 5/01/19 CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATE 07/01/19 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (05/01/20-10/31/20) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA | | \$124,606 \$12,788 \$137,394 2,702,383 \$0.0508 | \$0.4429 \$1.0339 \$0.3260 (\$0.1024) | | per therm |
| COM/IND LOW WINTER USE COST OF GAS RATE 5/01/19 CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATE 07/01/19 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (05/01/20-10/31/20) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF | | \$124,606 \$12,788 \$137,394 2,702,383 \$0,0508 \$594,754 (\$27) | \$0.4429 \$1.0339 \$0.3260 (\$0.1024) | | per therm |
| COMIND LOW WINTER USE COST OF GAS RATE - 5/01/19 CHANGE IN PER UNIT COST COMIND LOW WINTER USE COST OF GAS RATE - 07/01/19 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (05/01/20-10/31/20) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED COMMODITY COSTS | | \$124,606 \$12,788 \$137,394 2,702,383 \$0.0508 | \$0.4429 \$1.0339 \$0.3260 (\$0.1024) | | per therm |
| COM/IND LOW WINTER USE COST OF GAS RATE 5/01/19 CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATE 07/01/19 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (05/01/20-10/31/20) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF | | \$124,606 \$12,788 \$137,394 2,702,383 \$0.0508 \$594,754 (\$27) \$594,727 | \$0.4429 \$1.0339 \$0.3260 (\$0.1024) | | per therm |
| COM/IND LOW WINTER USE COST OF GAS RATE 5/01/19 CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATE 07/01/19 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (05/01/20-10/31/20) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED COMMODITY COSTS C&I HLF PROJECTED PRORATED SALES (05/01/20 - 10/31/20) | | \$124,606 \$12,788 \$137,394 2,702,383 \$0.0508 \$594,754 (\$27) \$594,727 2,702,383 | \$0.4429 \$1.0339 \$0.3260 (\$0.1024) | | per therm |
| COMIND LOW WINTER USE COST OF GAS RATE - 5/01/19 CHANGE IN PER UNIT COST COMIND LOW WINTER USE COST OF GAS RATE - 07/01/19 C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED DEMAND COSTS C&I HLF PROJECTED PRORATED SALES (05/01/20 - 10/31/20) DEMAND COST OF GAS RATE C&I HLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED COMMODITY COSTS C&I HLF PROJECTED PRORATED SALES (05/01/20 - 10/31/20) COMMODITY COST OF GAS RATE | | \$124,606 \$12,788 \$137,394 2,702,383 \$0.0508 \$594,754 (\$27) \$594,727 2,702,383 \$0.2201 | \$0.4429 \$1.0339 \$0.3260 (\$0.1024) | | per therm |

| M/IND HIGH WINTER USE COST OF GAS RATE - 05/01A920 | COGwh | \$0.293 | 4 <u>\$0.3116</u> | per therm |
|--|-------------------|----------------------|---|-----------|
| | Maximum (COG+25%) | \$0. 5 31 | <u>8 \$0.3895</u> | |
| COM/IND LOW WINTER USE COST OF GAS RATE 05/01/19 | | | \$0.3958 | |
| CHANGE IN PER UNIT COST | | | (\$0.1024) | |
| COM/IND LOW WINTER USE COST OF GAS RATE - 07/01/19 | | | \$0.2934 | |
| C&I LLF COMMODITY COSTS ALLOCATED PER SMBA | | <u>\$271,219</u> | | |
| PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF | | <u>\$27,835</u> | | |
| C&I LLF TOTAL ADJUSTED DEMAND COSTS | | \$299,054 | | |
| C&I LLF PROJECTED PRORATED SALES (05/01/20 - 10/31/20) | | 2,532,740 | | |
| DEMAND COST OF GAS RATE | | <u>\$0.1181</u> | | |
| C&I LLF COMMODITY COSTS ALLOCATED PER SMBA | | <u>\$557,418</u> | | |
| PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF | | <u>(\$25)</u> | | |
| C&I LLF TOTAL ADJUSTED COMMODITY COSTS | | \$557,393 | | |
| C&I LLF PROJECTED PRORATED SALES (05/01/20 - 10/31/20) | | 2,532,740 | | |
| COMMODITY COST OF GAS RATE | | <u>\$0.2201</u> | | |
| INDIRECT COST OF GAS | | (\$0.0266) | | |
| TOTAL C&I LLF COST OF GAS RATE | | <u>\$0.3116</u> | | |
| ada hara 05, 0040 Carterrhan 47, 0040 | | | | |
| ed: June 25, 2019 September 17, 2019 ctive Date: July 1, 2019 May 1, 2020 | | Issued By: | Christine Vaughan Senior Vice Presiden | |

Third Second Revised Page 62 Superseding Second First Revised Page 62

N.H.P.U.C. No. 12 - Gas Northern Utilities, Inc.

Local Delivery Adjustment Clause

| Rate Schedule | RLIARA | RLIARA | EEC | EEC | LRR | LRR | ERC | ERC | ITMC | RCE | RPC | LDAC | LDAC |
|---------------------------|---------------------|----------|---------------------|----------|---------------------|----------|---------------------|----------|----------|----------|----------|---------------------|----------|
| | | | | | | | | | | | | | |
| Residential Heating | \$0.0044 | \$0.0036 | \$0.0501 | \$0.0499 | \$0.0072 | \$0.0114 | \$0.0058 | \$0.0057 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0675 | \$0.0706 |
| Residential Non-Heating | \$0.0044 | \$0.0036 | \$0.0501 | \$0.0499 | \$0.0072 | \$0.0114 | \$0.0058 | \$0.0057 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0675 | \$0.0706 |
| Small C&I | \$0.0044 | \$0.0036 | \$0.0264 | \$0.0247 | \$0.0014 | \$0.0019 | \$0.0058 | \$0.0057 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0380 | \$0.0359 |
| Medium C&I | \$0.0044 | \$0.0036 | \$0.0264 | \$0.0247 | \$0.0014 | \$0.0019 | \$0.0058 | \$0.0057 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0380 | \$0.0359 |
| Large C&I | \$0.0044 | \$0.0036 | \$0.0264 | \$0.0247 | \$0.0014 | \$0.0019 | \$0.0058 | \$0.0057 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0380 | \$0.0359 |
| No Previous Sales Service | | | | | | | | | | | | | |

Issued: September 17, 20198

Effective: With Service Rendered On and After November May 1, 2019

Authorized by NHPUC Order No. in Docket No. , dated

Issued by: Mark Collin Christine Vaughan

Title:

Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION WINTER SEASON RESIDENTIAL RATES

| | Winter Season November 2019 - April 2020 | | 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 | \$22.20 \$0.6920 \$0.6920 \$0.0694 <u>\$0.0706</u> \$0.7650 \$0.5861 | \$22.20 \$0.7611 \$0.7626 \$0.7611 \$0.7626 | \$22.20 \$1.5261 \$1.3487 \$1.5261 \$1.3487 | |
| 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 | \$8.88 \$0.2768 \$0.2768 \$0.0691 \$0.0706 \$0.7650 \$0.5861 | \$8.88 \$0.3459 \$0.3474 \$0.3459 \$0.3474 | \$8.88 \$1.1109 \$0.9335 \$1.1109 \$0.9335 | |
| 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 | \$22.20 \$0.6470 \$0.6470 \$0.0691 \$0.0706 \$0.7650 \$0.5861 | \$22.20 \$0.7161 \$0.7176 \$0.7161 \$0.7176 | \$22.20 \$1.4811 \$1.3037 \$1.4811 \$1.3037 | |

Issued: May 10, 2019September 17, 2019

Effective Date: With Service Rendered On and After May November 1, 2019
Authorized by NHPUC Order No. in Docket No. DG 19-, dated

Issued by:

Title:

Christine Vaughan Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION SUMMER-SEASON RESIDENTIAL RATES

| | Summer Season May 201 <mark>9</mark> 20- October 201 <u>920</u> | | 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 | | \$22.20 \$0.6099 \$0.6099 \$0.0675 \$0.2646 \$0.2768 | \$0.6774 \$0.6774 | \$22.20 \$0.6805 \$0.6805 | \$0.9420 \$0.9420 | \$22.20 \$0.9573 \$0.9573 |
| 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 | | \$8.88 \$0.2440 \$0.2440 \$0.0675 \$0.0706 \$0.2646 \$0.2768 | \$ 0.3115 \$ 0.3115 | \$8.88 \$0.3146 \$0.3146 | \$ 0.5761 \$ 0.5761 | \$8.88 \$0.5914 \$0.5914 |
| 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 | | \$22.20 \$0.6470 \$0.6470 \$0.0675 \$0.0706 \$0.2646 \$0.2768 | \$0.7145 \$0.7145 | \$22.20 \$0.7176 \$0.7176 | \$ 0.9791 \$ 0.9791 | \$22.20 \$0.9944 \$0.9944 |

Issued: June 25, 2019September 17, 2019 Effective Date: July 1, November 1, 2019

Authorized by NHPUC Order No. in Docket No. DG 19-, dated

Issued by: Title: Christine Vaughan
Senior Vice President

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

| | Winter Season November 2019 - April 2020 | | 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 | \$75.09 \$0.1865 \$0.1865 \$0.0396 \$0.0359 \$0.7803 \$0.6082 | \$75.09 \$0.2261 \$0.2224 \$0.2261 \$0.2224 | \$75.09 \$1.0064 \$1.0064 \$0.8306 | | |
| 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 | \$75.09 \$0.1865 \$0.1865 \$0.0396 \$0.0359 \$0.6633 \$0.4950 | \$75.09 \$0.2264 \$0.2264 \$0.2224 | \$75.09 \$0.8894 \$0.8894 \$0.7174 | | |
| C&I Medium Annual/High Winter | Tariff Rate G 41: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas | \$222.64 \$0.2425 \$0.0396 \$0.0359 \$0.7803 \$0.6082 | \$222.64 \$0.2824 \$0.2784 | \$222.64 \$1.0624 \$0.8866 | | |
| 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 | \$222.64 \$0.1712 \$0.1399 \$0.0396 \$0.0359 \$0.6633 \$0.4950 | \$222.64 \$0.2108 \$0.1795 \$0.1758 | \$222.64 \$0.8741 \$0.7021 \$0.8428 \$0.6708 | | |
| C&I High Annual/High Winter | Tariff Rate G 42: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas | \$1,335.81 \$0.1984 \$0.0396 \$0.7803 \$0.6082 | \$1,335.81 \$0.2380 \$0.2343 | \$1,335.81 \$1.0183 \$0.8425 | | |
| C&I High Annual/Low Winter | Tariff Rate G 52: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas | \$1,335.81 \$0.1720 \$0.0396 \$0.6633 \$0.4950 | \$1,335.81 \$0.2116 \$0.2079 | \$1,335.81 \$0.8749 \$0.7029 | | |

 Issued: May 10, 2019September 17, 2019
 Issued by:
 Christine Vaughan

 Effective Date: With Service Rendered On and After May November 1, 2019
 Title:
 Senior Vice President

 Authorized by NHPUC Order No. in Docket No. DG 19-, dated
 Senior Vice President

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

| | Summer Season May 201 <u>920</u> - October 201 <u>920</u> | Tariff Rates | Total Delivery Rates (Includes LDAC) | <u>Total Billed Rates</u> 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 | \$75.09 \$0.1865 \$0.1865 \$0.0380 \$0.0359 \$0.2934 \$0.3116 | \$75.09 \$0.2245 \$0.2224 \$0.2245 \$0.2224 | \$75.09 \$0.5179 \$0.5340 \$0.5340 |
| 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 | \$75.09 \$0.1865 \$0.1865 \$0.0380 \$0.0359 \$0.2245 \$0.2443 | \$75.09 \$0.2245 \$0.2224 \$0.2245 \$0.2224 | \$75.09 \$0.4490 \$0.4667 \$0.4490 \$0.4667 |
| C&I Medium Annual/High Winter | Tariff Rate G 41: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas | \$222.64 \$0.1895 \$0.0380 \$0.2934 \$0.3116 | \$222.64 \$0.2275 \$0.2254 | \$222.64 \$0.5209 \$0.5370 |
| 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 | \$222.64 \$0.1337 \$0.1087 \$0.0380 \$0.0359 \$0.2245 \$0.2443 | \$222.64 \$0.1717 \$0.1696 \$0.1446 \$0.1446 | \$222.64 \$0.3962 \$0.3712 \$0.3889 |
| C&I High Annual/High Winter | Tariff Rate G 42: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas | \$1,335.81 \$0.1206 \$0.0380 \$0.0359 \$0.2934 \$0.3116 | \$1,335.81 \$0.1586 \$0.1565 | \$1,335.81 \$0.4520 \$0.4681 |
| C&I High Annual/Low Winter | Tariff Rate G 52: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas | \$1,335.81 \$0.0792 \$0.0380 \$0.0359 \$0.2245 \$0.2443 | \$1,335.81 \$0.1172 \$0.1151 | \$1,335.81 \$0.3594 |

| Issued: June 25, 2019 <u>September 17, 2019</u> | Issued by: | Christine Vaughan |
|--|------------|-----------------------|
| Effective Date: July 1, November 1, 2019 | Title: | Senior Vice President |
| Authorized by NHPUC Order No. in Docket No. DG 19-, dated | | |

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: \$50.3565.41 per MMBtu per MDPQ per month for November 2018-2019 through April 20192020.

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

III. Company Allowance Calculation:

1.348% - Provided in Attachment 3 to Schedule 1018FXW

IV. Supplier Services and Associated Fees:

| <u>SERVICE</u> | <u>PRICING</u> |
|--|---|
| Pool Administration (required) | • \$0.10/month/customer billed @ marketer level |
| Non-Daily Metered Pools only | |
| 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 |

| V. Meter Read Charge: | | \$78 when customer phone | line is not reporting | g daily data. |
|-----------------------|-----------------|--------------------------|-----------------------|------------------------------|
| Issued: | November 5, 201 | 8September 17, 2019 | Issued by: | Mark CollinChristine Vaughan |
| Effective: | November 1 20 | 18 2019 | | Senior Vice President |

Authorized by NHPUC Order No. _____ in Docket No. DG 189 -___, dated _____.

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 2019 through October 31, 2019 2020.

Commercial and Industrial

| | <u>High Winter Use</u> | Low Winter Use |
|-----------|---------------------------------|---------------------------------|
| Pipeline: | -9.84 <u>9.53</u> % | 63.40 48.43% |
| Storage: | 36.42 <u>34.33</u> % | 14.79 <u>19.53</u> % |
| Peaking: | 53.74 <u>56.32</u> % | 21.81 <u>32.04</u> % |

| Issued: | November 5, 2018September 1 | <u>7, 2019</u> Issued l | by: Mark CollinChristine |
|-----------|-----------------------------|---|--------------------------|
| | | | Vaughan |
| Effective | e: November 1, 2018/2019 | | Senior Vice President |
| Authoriz | ed by NHPUC Order No | in Docket No. DG18 <u>DG19</u> , d | dated |

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 2019 through April 30, 2019 2020 and May 1, 2019 2020 through October 2019 2020.

| Effective Dates: | November 1, 2018 <u>2019</u> – April 30, 2019 <u>2020</u> | May 1, 2019 - <u>2020</u> – October 30, 2019 <u>2020</u> |
|--|---|--|
| Re-entry Surcharge: | \$0. 0000 - <u>0409</u> per therm | \$0. 0000 - <u>0406</u> per therm |
| Conversion Surcharge, Low Load Factor (G-40, G-41, G-42): | \$0. 00041 _ <u>1405</u> per therm | \$0. 0000 - <u>0406</u> per therm |
| Conversion Surcharge, High Load Factor (G-50, G-51, G-52): | \$0. 1211 - <u>2537</u> per therm | \$0. 0000 _ <u>0406</u> per therm |

Issued: November 5, 2018September

Issued by: Mark CollinChristine

<u>17, 2019</u> Vaughan

Effective: November 1, 20182019 Title: Senior Vice President