## LIBERTY UTILITIES - KEENE DIVISION

# CONVERSION OF PROPANE COSTS - GALLONS TO THERMS SUMMER PERIOD 2020 

|  | (1) | (2) | (3) | (4) | (5) | (6) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | VOLU | MES | UNIT COST |  |
|  | UNIT | CONVERSION FACTOR | GALLONS | THERMS | $\begin{gathered} \text { PER } \\ \text { GALLON } \end{gathered}$ | $\begin{gathered} \text { PER } \\ \text { THERM } \\ \hline \end{gathered}$ |
| PROPANE FROM INVENTORY | GALLONS | 0.91502 | 322,487 | 295,082 | \$0.7403 | \$0.8091 |

LIBERTY UTILITIES - KEENE DIVISION
REVISED CALCULATION OF COST OF GAS RATE
SUPPLY / DEMAND BALANCE
SUMMER PERIOD 2020

PRIOR May-20 Jun-20 Jul-20 Aug-20 Sep-20 Oct-20 TOTAL

| PROPANE FIRM SENDOUT (therms) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 38,887 | 29,096 | 28,000 | 32,500 | 38,279 | 70,729 | 237,490 |
| COMPANY USE (therms) |  | 2,135 | 1,439 | 1,522 | 1,908 | 1,859 | 2,618 | 11,481 |
| TOTAL PROPANE SENDOUT (therms) (line $1+$ line 2) |  | 41,022 | 30,534 | 29,522 | 34,408 | 40,138 | 73,347 | 248,971 |
| COST PER THERM (WACOG) |  | \$0.8714 | \$0.7988 | \$0.7525 | \$0.7246 | \$0.7110 | \$0.6985 |  |
| TOTAL CALCULATED COST OF PROPANE (line 3 * line 4) |  | \$35,746 | \$24,392 | \$22,216 | \$24,933 | \$28,538 | \$51,233 | \$187,058 |
| PROPANE ADJUSTMENTS |  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL COST OF PROPANE (line $5+$ line 6) |  | \$35,746 | \$24,392 | \$22,216 | \$24,933 | \$28,538 | \$51,233 | \$187,058 |
| CNG COSTS |  |  |  |  |  |  |  |  |
| CNG SENDOUT (therms) |  | 11,498 | 6,225 | 5,046 | 6,180 | 7,948 | 9,214 | 46,111 |
| COST PER THERM (WACOG) |  | \$0.9131 | \$1.1575 | \$1.3448 | \$1.2937 | \$1.1376 | \$1.1030 |  |
| TOTAL CALCULATED COST OF CNG (line 8 * line 9) |  | \$10,498 | \$7,205 | \$6,787 | \$7,996 | \$9,041 | \$10,163 | \$51,690 |
| CNG ADJUSTMENTS |  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL COST OF CNG (line 10 + line 11) |  | \$10,498 | \$7,205 | \$6,787 | \$7,996 | \$9,041 | \$10,163 | \$51,690 |
| ACCOUNTING ADJUSTMENT |  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL COSTS OF GAS (line $7+$ line $12+$ line 13) |  | \$46,244 | \$31,597 | \$29,003 | \$32,929 | \$37,579 | \$61,396 | \$238,748 |
| FPO PREMIUM |  | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 |
| RETURN ON INVENTORY |  | \$2,354 | \$2,354 | \$2,354 | \$2,354 | \$2,354 | \$2,354 | \$14,126 |
| REVENUES |  |  |  |  |  |  |  |  |
| BILLED FPO SALES (therms) |  | 0 | 0 | 0 | 0 | 0 | 0 |  |
| COG FPO RATE |  | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 |  |
| BILLED FPO SALES (line 17 * line 18) |  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| BILLED NON-FPO SALES PRIOR MONTH (therms) |  | 0 | 0 | 0 | 0 | 0 | 0 |  |
| COG NON-FPO RATE PRIOR MONTH |  | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 |  |
| BILLED NON-FPO SALES PRIOR MONTH (line 20 * line 21) |  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| BILLED NON-FPO SALES CURRENT MONTH (therms) |  | 49,819 | 35,868 | 32,789 | 39,175 | 45,282 | 80,682 | 283,614 |
| COG NON-FPO RATE CURRENT MONTH |  | \$0.6326 | \$0.6326 | \$0.6326 | \$0.6326 | \$0.6326 | \$0.6326 |  |
| BILLED NON-FPO SALES CURRENT MONTH (line 23 * line 24) |  | \$31,516 | \$22,690 | \$20,743 | \$24,783 | \$28,645 | \$51,040 | \$179,416 |
| BILLED SALES OTHER PRIOR PERIODS |  | 0 | 0 | 0 | 0 | 0 | 0 |  |
| COG OTHER PRIOR PERIODS BLENDED RATE |  | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 |  |
| BILLED SALES OTHER PRIOR PERIODS (line 26 * line 27) |  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL SALES (line $17+$ line 20 + line $23+$ line 26) |  | 49,819 | 35,868 | 32,789 | 39,175 | 45,282 | 80,682 | 283,614 |
| TOTAL BILLED REVENUES (line 19 + line 22 + line 25 + line 28) |  | \$31,516 | \$22,690 | \$20,743 | \$24,783 | \$28,645 | \$51,040 | \$179,417 |
| UNBILLED REVENUES (NET) |  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL REVENUES (line 30 + line 31) |  | \$31,516 | \$22,690 | \$20,743 | \$24,783 | \$28,645 | \$51,040 | \$179,417 |
| (OVER)/UNDER COLLECTION (line 14 + Line 15 + line 16 - line 32) |  | \$17,082 | \$11,261 | \$10,614 | \$10,500 | \$11,288 | \$12,710 | \$73,457 |
| INTEREST AMOUNT |  | (\$256) | (\$207) | (\$169) | (\$132) | (\$94) | (\$52) | (\$910) |
| FINAL (OVER)/UNDER COLLECTION (line $33+$ line 34) | $(\$ 80,938)$ | \$16,826 | \$11,054 | \$10,445 | \$10,368 | \$11,194 | \$12,658 | $(\$ 8,391)$ |

* COVID-19 Adjustments for 15\% reductions in CNG demand charges and the prior period over-collection


NOTE: Summer spot purchases are based on market quotes from local suppliers. The above schedule provides a breakdown of the quote

1. Propane futures market quotations (cmegroup.com) on 04/14/20 close. See Appendix 1.
2. A generally accepted standard broker fee
3. Summer prices are quoted on a delivered basis with pipeline charges embedded in delivered price
4. Propane Education Research Council (propanecouncel.org)
5. Supplier charge
6. Selkirk Cost - all fees plus propane cost
7. Northern Gas Transport trucking rate including diesel fuel surcharge. See Appendix 3A \& 3B.
8. Delivered Price per Gallon
9. Delivered Price per therm as converted using per gallon price / . 91502

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# PROPANE INVENTORY \& WEIGHTED AVERAGE COST OF PROPANE CALCULATION SUMMER PERIOD 2020 



|  |  | PRIOR | ACTUAL May-19 | $\begin{gathered} \text { ACTUAL } \\ \text { Jun-19 } \\ \hline \end{gathered}$ | $\begin{gathered} \text { ACTUAL } \\ \text { Jul-19 } \\ \hline \end{gathered}$ | ACTUAL Aug-19 | $\begin{gathered} \text { ACTUAL } \\ \text { Sep-19 } \\ \hline \end{gathered}$ | $\begin{gathered} \text { ACTUAL } \\ \text { Oct-19 } \\ \hline \end{gathered}$ | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | COSTS |  |  |  |  |  |  |  |  |
| 1 | FIRM SENDOUT PROPANE (therms) |  | 70,209 | 46,416 | 40,939 | 42,549 | 52,006 | 69,644 | 321,763 |
| 2 | COMPANY USE PROPANE(therms) |  | 2,846 | 1,918 | 1,903 | 2,120 | 2,066 | 2,756 | 13,609 |
| 3 | TOTAL SENDOUT (therms) |  | 73,055 | 48,334 | 42,842 | 44,669 | 54,072 | 72,400 | 335,372 |
| 4 | COST PER THERM (WACOG) |  | \$0.9985 | \$0.8872 | \$0.7208 | \$0.7049 | \$0.7153 | \$0.7741 | \$0.8138 |
| 5 | TOTAL COSTS PROPANE |  | \$72,943 | \$42,882 | \$30,882 | \$31,487 | \$38,680 | \$56,043 | \$272,917 |
| 6 | COMMODITY COSTS CNG |  |  |  |  |  |  | \$7,992 |  |
| 7 | CNG DEMAND CHARGES |  | \$4,167 | (\$41,667) | \$0 | \$0 | \$0 | \$2,083 | (\$35,417) |
| 8 | TOTAL CNG COSTS |  | \$4,167 | $(\$ 41,667)$ | \$0 | \$0 | \$0 | \$10,075 | (\$27,425) |
| 9 | PRODUCTION COSTS |  | \$1,622 | $(\$ 48,032)$ | \$0 | (\$10,806) | \$0 | \$0 | (\$57,215) |
| 10 | ACCOUNTING ADJUSTMENT |  | \$0 | \$0 | \$0 | (\$4,572) | \$48 | \$0 | (\$4,524) |
| 11 | TOTAL COSTS |  | \$78,732 | $(\$ 46,817)$ | \$30,882 | \$16,109 | \$38,728 | \$66,118 | \$183,753 |
|  | REVENUES |  |  |  |  |  |  |  |  |
| 12 | BILLED FPO SALES (therms) |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | COG FPO RATE |  | \$1.3743 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 |  |
| 14 | FPO REVENUES |  | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 15 | BILLED NON-FPO SALES PRIOR MONTH (therms) |  | 0 | 60,103 | 36,726 | 34,303 | 38,050 | 0 | 169,182 |
| 16 | COG NON-FPO RATE PRIOR MONTH |  | \$1.2651 | \$1.1071 | \$1.0063 | \$0.8854 | \$0.7068 | \$0.4843 |  |
| 17 | PRIOR MONTH BILLED REVENUES |  | \$0 | \$66,540 | \$36,958 | \$30,372 | \$26,894 | \$0 | \$160,763 |
| 18 | BILLED NON-FPO SALES CURRENT MONTH (therms) |  | 11,047 | 9,305 | 6,839 | 5,195 | 7,622 | 50,703 | 90,711 |
| 19 | COG NON-FPO RATE CURRENT MONTH |  | \$1.1071 | \$1.0063 | \$0.8854 | \$0.7068 | \$0.4843 | \$0.4843 |  |
| 20 | CURRENT MONTH BILLED REVENUES |  | \$12,230 | \$9,364 | \$6,055 | \$3,672 | \$3,691 | \$24,555 | \$59,567 |
| 21 | BILLED SALES OTHER PRIOR PERIODS |  | 0 | 900 | 18 | (422) | (205) | (138) | 153 |
| 22 | COG OTHER PRIOR PERIODS BLENDED RATE |  | \$0.0000 | \$0.0008 | \$1.1095 | \$1.0382 | \$0.9547 | \$0.6968 |  |
| 23 | OTHER BILLED REVENUES |  | \$0 | \$1 | \$20 | (\$438) | (\$196) | (\$96) | (\$709) |
| 24 | TOTAL SALES |  | 11,047 | 70,308 | 43,583 | 39,076 | 45,467 | 50,565 | 260,046 |
| 25 | total billed revenues |  | \$12,230 | \$75,904 | \$43,033 | \$33,605 | \$30,389 | \$24,459 | \$219,622 |
| 26 | UNBILLED REVENUES (NET) |  | \$62,137 | $(\$ 28,096)$ | (\$5,076) | $(\$ 3,585)$ | (\$4,580) | \$14,201 | \$35,000.46 |
| 27 | TOTAL REVENUES |  | \$74,367 | \$47,808 | \$37,957 | \$30,021 | \$25,810 | \$38,660 | \$254,622 |
| 28 | (OVER)/UNDER COLLECTION |  | \$4,365 | $(\$ 94,625)$ | (\$7,075) | (\$13,912) | \$12,918 | \$27,458 | $(\$ 70,870)$ |
| 29 | INTEREST AMOUNT |  | (\$258) | (\$455) | (\$233) | (\$494) | (\$429) | (\$139) | $(\$ 2,009)$ |
| 30 | FINAL (OVER)/UNDER COLLECTION | \$300 | \$4,107 | $(\$ 95,080)$ | (\$7,307) | (\$14,405) | \$12,489 | \$27,318 | (\$72,578) |

LIBERTY UTILITIES - KEENE DIVISION
INTEREST CALCULATION
SUMMER PERIOD 2020


| LIBERTY UTILITIES - KEENE DIVISION Weather Normalization - Firm Sendout |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | Actual Firm Sendout | Base Use | Heat Use | Actual <br> Calendar Month Degree Days | Normal <br> Calendar Month Degree Days | Colder (Warmer) Than Normal | Actual Unit <br> Heat Load <br> Therm/DD | Weather Adjustment | Normal Heat Load | Normalized <br> Firm Sendout | Normalized Firm Sendout COVID19 Impact | \% Reduction COVID-19 | $\begin{aligned} & \text { Actual } \\ & \text { Company } \end{aligned}$ Use | \% Reduction COVID-19 | Unaccounted <br> For <br> $0.90 \%$ | Total <br> Firm <br> Sendout |
|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
|  |  |  | (1) - (2) |  |  | (4) - (5) | (3) / (4) | (6) $\times(7)$ | (5) $+(7)$ | (1) - (3) + (9) | (10)*(1-(12) |  |  | $(13)^{*}(1-(12)$ | (11-14)* 0.90\% | (11) - (14) +(15) |
| May-19 | 73,055 | 43,756 | 29,300 | 323 | 283 | 40 | 90.71 | $(3,628)$ | 25,671 | 69,427 | 52,070 | 25\% | 2,846 | 2,135 | 449 | 50,385 |
| Jun-19 | 48,334 | 43,756 | 4,579 | 71 | 75 | (4) | 64.49 | 258 | 4,836 | 48,592 | 36,444 | 25\% | 1,918 | 1,439 | 315 | 35,321 |
| Jul-19 | 42,842 | 43,756 | 0 | 0 | 12 | (12) | 0.00 | 0 | 0 | 42,842 | 34,274 | 20\% | 1,903 | 1,522 | 295 | 33,046 |
| Aug-19 | 44,669 | 43,756 | 914 | 20 | 21 | (1) | 45.68 | 46 | 959 | 44,715 | 40,243 | 10\% | 2,120 | 1,908 | 345 | 38,680 |
| Sep-19 | 54,072 | 43,756 | 10,317 | 178 | 159 | 19 | 57.96 | $(1,101)$ | 9,215 | 52,971 | 47,674 | 10\% | 2,066 | 1,859 | 412 | 46,227 |
| Oct-19 | 84,363 | 43,756 | 40,608 | 453 | 473 | (20) | 89.64 | 1,793 | 42,401 | 86,156 | 81,848 | 5\% | 2,756 | 2,618 | 713 | 79,943 |
| Total | 347,335 | 262,533 | 85,716 | 1,045 | 1,023 | 22 |  | $(2,633)$ | 83,083 | 344,702 | 292,553 |  | 13,609 | 11,481 | 2,530 | 283,601 |


| LIBERTY UTILITIES - KEENE DIVISION <br> Revised Weather Normalization - Sales Rate Residential |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | Calendar Customers | Calendar Sales | Base Load | Heating Load | Calendar Monthly Actual Degree Days | Calendar Monthly Normal Degree Days | Colder (Warmer) Than Normal | Actual Unit Heat Load Therm/DD | Weather Adjustment | Normal Heat Load | Normal Firm <br> Sales <br> Therms | Normal Firm COVID 19 IMPACT |
|  |  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | -11 |
|  |  |  |  | (1) - (2) |  |  | (4) - (5) | (3) / (4) | (6) $\times(7)$ | (3) $+(8)$ | (1) - (3) + (9) |  |
| May-19 | 918 | 15,671 | 6,927 | 8,744 | 323 | 283 | 40 | 27.07 | $(1,083)$ | 7,661 | 14,588 | 14,588 |
| Jun-19 | 878 | 8,951 | 6,927 | 2,024 | 71 | 75 | (4) | 28.51 | 114 | 2,138 | 9,065 | 9,065 |
| Jul-19 | 897 | 6,828 | 6,927 | 0 | 0 | 12 | (12) |  | 0 | 0 | 6,828 | 6,828 |
| Aug-19 | 897 | 7,025 | 6,927 | 98 | 20 | 21 | (1) | 4.92 | 5 | 103 | 7,030 | 7,030 |
| Sep-19 | 871 | 8,628 | 6,927 | 1,701 | 178 | 159 | 19 | 9.56 | (182) | 1,519 | 8,446 | 8,446 |
| Oct-19 | 907 | 17,407 | 6,927 | 10,480 | 453 | 473 | (20) | 23.14 | 463 | 10,943 | 17,870 | 17,870 |
| Total |  | 64,510 | 41,561 | 23,048 | 1,045 | 1,023 | 22 | 31.03 | (683) | 22,365 | 63,827 | 63,827 |

LIBERTY UTILITIES - KEENE DIVISION


Summary - Total Summer Season Sales

|  | Actual 2019 | Normalized |
| :---: | :---: | :---: |
| May | 70,060 | 49,819 |
| June | 47,352 | 35,868 |
| July | 41,050 | 32,789 |
| August | 43,414 | 39,175 |
| September | 51,396 | 45,282 |
| October | 83,087 | 80,682 |
| Total | 336,359 | 283,614 |

Typical Residential Heating Bill - Fixed Price Option Program

(2) LDAC was included in Keene distribution rates beginning on 05/01/18, as authorized by NHPUC Order No. 26,122 dated April 27, 2018, in Docket No. DG 17-048

(1) Residential Heating Typical Usage: Single family detached home using gas for heat, hot water and cooking
(2) LDAC was included in Keene distribution rates beginning on 05/01/18, as authorized by NHPUC Order No. 26,122 dated April 27, 2018, in Docket No. DG 17-048

|  | Mt. Belvieu Price |  | Pipeline Rate | Broker + Supplier |  |  | PERC |  | Trucking |  | Keene Div. Price | Contract Volumes | Keene Div. Cost | Fixed Basis Bid | Plan Price | Contract Volumes | $\begin{aligned} & \hline \text { Plan } \\ & \text { Cost } \end{aligned}$ | $\begin{gathered} \text { Cost } \\ \text { Premium } \end{gathered}$ | Per Gallon Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Apr-19 | 0.6605 | + | \$0.2265 | + | \$0.1000 | + | \$0.0045 | + | \$0.0858 | $=$ | \$1.0773 | 115,000 | \$123,890 |  |  | 115,000 |  |  | -\$0.0993 |
| May-19 | 0.6728 | + | \$0.2265 | + | \$0.1000 | + | \$0.0045 | + | \$0.0858 | $=$ | \$1.0896 | 111,250 | \$121,218 |  |  | 111,250 |  |  | -\$0.0993 |
| Jun-19 | 0.5752 | + | \$0.2265 | + | \$0.1000 | + | \$0.0045 | + | \$0.0858 | $=$ | \$0.9920 | 111,250 | \$110,360 |  |  | 111,250 |  |  | -\$0.0993 |
| Jul-19 | 0.5929 | + | \$0.2265 | + | \$0.1000 | + | \$0.0045 | + | \$0.0858 | $=$ | \$1.0097 | 140,000 | \$141,358 |  |  | 140,000 |  |  | -\$0.0993 |
| Aug-19 | 0.4986 | + | \$0.2265 | + | \$0.1000 | + | \$0.0045 | + | \$0.0858 | $=$ | \$0.9154 | 111,250 | \$101,838 |  |  | 111,250 |  |  | -\$0.0993 |
| Sep-19 | 0.4894 | + | \$0.2265 | + | \$0.1000 | + | \$0.0045 | + | \$0.0858 | $=$ | \$0.9062 | 111,250 | \$100,815 |  |  | 111,250 |  |  | -\$0.0993 |
| Total |  |  |  |  |  |  |  |  |  |  |  | 700,000 | \$699,479 |  |  | 700,000 | \$629,969 | $(\$ 69,510)$ | -\$0.0993 |

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LIBERTY UTILITIES - KEENE DIVISION
COMPARISON OF CONTRACT COST TO HYPOTHETICAL SPOT COST WINTER SEASON 2019-2020 TO DATE

| Delivery <br> Month | Contract <br> Price <br> $\mathbf{( 1 )}$ | Contract <br> Volumes <br> $\mathbf{( 2 )}$ | Contract <br> Cost <br> $\mathbf{( 3 )}$ | Average <br> Spot Price <br> $\mathbf{( 4 )}$ | Contract <br> Volumes <br> $\mathbf{( 5 )}$ | Hypothetical <br> Spot Cost <br> $\mathbf{( 6 )}$ | Incremental <br> Cost $/$ (Savings) <br> of Plan <br> $(\mathbf{7 )}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\mathbf{( 1 ) \times ( \mathbf { 2 ) }}$ |  |  | $\mathbf{( 4 ) \times ( \mathbf { 5 } )}$ | $\mathbf{( 3 ) - \mathbf { ( 6 ) }}$ |
| Nov-19 | $\$ 0.8900$ | 91,726 | $\$ 81,640$ | $\$ 0.9235$ | 91,726 | $\$ 84,709$ | $(\$ 3,069)$ |
| Dec-19 | $\$ 0.8986$ | 140,000 | $\$ 125,801$ | $\$ 0.9084$ | 140,000 | $\$ 127,176$ | $(\$ 1,375)$ |
| Jan-20 | $\$ 0.9081$ | 164,138 | $\$ 149,046$ | $\$ 0.8090$ | 164,138 | $\$ 132,787$ | $\$ 16,259$ |
| Feb-20 | $\$ 0.9099$ | 135,172 | $\$ 122,991$ | $\$ 0.7713$ | 135,172 | $\$ 104,259$ | $\$ 18,732$ |
| Total |  | $\$ 479,477$ |  |  | $\$ 448,931$ | $\$ 30,546$ |  |

## LIBERTY UTILITIES - KEENE DIVISION

PROPANE PURCHASING STABILIZATION PLAN PRE-PURCHASES AND DELIVERY SCHEDULE

| Delivery Month | Pre-Purchases (Gallons) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Total |
| Nov-20 | 15,069 | 14,578 | 14,578 | 18,345 | 14,578 | 14,578 | 91,726 |
| Dec-20 | 23,000 | 22,250 | 22,250 | 28,000 | 22,250 | 22,250 | 140,000 |
| Jan-21 | 26,966 | 26,086 | 26,086 | 32,828 | 26,086 | 26,086 | 164,138 |
| Feb-21 | 22,207 | 21,483 | 21,483 | 27,034 | 21,483 | 21,483 | 135,172 |
| Mar-21 | 17,448 | 16,879 | 16,879 | 21,241 | 16,879 | 16,879 | 106,205 |
| Apr-21 | 10,310 | 9,974 | 9,974 | 12,552 | 9,974 | 9,974 | 62,759 |
| Total | 115,000 | 111,250 | 111,250 | 140,000 | 111,250 | 111,250 | 700,000 |
| Monthly \% | 16.4\% | 15.9\% | 15.9\% | 20.0\% | 15.9\% | 15.9\% |  |

LIBERTY UTILITIES - KEENE DIVISION
CALCULATION OF PURCHASED GAS COSTS
SUMMER PERIOD 2020

| LINE <br> NO. |  | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | TOTAL SENDOUT (therms) | 52,519 | 36,759 | 34,568 | 40,588 | 48,086 | 82,561 | 295,082 |
| 2 | CHANGE TO ENDING INVENTORY BALANCE (therms) | - | - | - | - | - | - | - |
| 3 | TOTAL REQUIRED PURCHASES (therms) | 52,519 | 36,759 | 34,568 | 40,588 | 48,086 | 82,561 | 295,082 |
| 4 | PROPANE PURCHASE STABILIZATION PLAN DELIVERIES |  |  |  |  |  |  |  |
| 5 | Therms | - | - | - | - | - | - | - |
| 6 | RATES - from Schedule D |  |  |  |  |  |  |  |
| 7 | Contract Price | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 |  |
| 8 | Broker Fee | incl. | incl. | incl. | incl. | incl. | incl. |  |
| 9 | Pipeline Fee | incl. | incl. | incl. | incl. | incl. | incl. |  |
| 10 | PERC Fee | incl. | incl. | incl. | incl. | incl. | incl. |  |
| 11 | Trucking Fee | incl. | incl. | incl. | incl. | incl. | incl. |  |
| 12 | COST PER GALLON | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 |  |
| 13 | TOTAL COST - Propane Purchase Stabilization Plan Deliveries | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 14 | AMHERST STORAGE PROPANE DELIVERIES |  |  |  |  |  |  |  |
| 15 | Therms | - | - | - | - | - | - | - |
| 16 | RATES - from Schedule F |  |  |  |  |  |  |  |
| 17 | WACOG Price | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 |  |
| 18 | Trucking Fee | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 |  |
| 19 | COST PER GALLON | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 |  |
| 20 | TOTAL COST - Amherst Storage Propane Deliveries | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 21 | CNG DELIVERIES |  |  |  |  |  |  |  |
| 22 | Therms | 11,498 | 6,225 | 5,046 | 6,180 | 7,948 | 9,214 | 46,111 |
| 23 | RATE |  |  |  |  |  |  |  |
| 24 | PRICE |  |  |  |  |  |  |  |
| 25 | COST PER Therm |  |  |  |  |  |  |  |
| 26 | COST-CNG |  |  |  |  |  |  |  |
| 27 | DEMAND FIXED |  |  |  |  |  |  |  |
| 28 | COST PER Therm |  |  |  |  |  |  |  |
| 29 | TOTAL CNG |  |  |  |  |  |  |  |
| 30 | SPOT PURCHASES |  |  |  |  |  |  |  |
| 31 | Therms | 41,022 | 30,534 | 29,522 | 34,408 | 40,138 | 73,347 | 248,971 |
| 32 | RATES - from Schedule E |  |  |  |  |  |  |  |
| 33 | Mont Belvieu |  |  |  |  |  |  |  |
| 34 | Broker Fee |  |  |  |  |  |  |  |
| 35 | Pipeline Fee |  |  |  |  |  |  |  |
| 36 | PERC Fee |  |  |  |  |  |  |  |
| 37 | Supplier Charge |  |  |  |  |  |  |  |
| 38 | Trucking Fee |  |  |  |  |  |  |  |
| 39 | COST PER GALLON - Market Quotes |  |  |  |  |  |  |  |
| 40 | COST PER THERM - Market Quotes |  |  |  |  |  |  |  |
| 41 | TOTAL COST - Spot Purchases |  |  |  |  |  |  |  |
| 42 | OTHER ITEMS |  |  |  |  |  |  |  |
| 43 | Storage - Winter Period 2019-2020 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 44 | Refund of Deferred Revenue Surcharge over collection | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 45 | TOTAL OTHER ITEMS | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 46 | TOTAL |  |  |  |  |  |  |  |
| 47 | THERMS | 52,519 | 36,759 | 34,568 | 40,588 | 48,086 | 82,561 | 295,082 |
| 48 | SENDOUT THERMS | 52,519 | 36,759 | 34,568 | 40,588 | 48,086 | 82,561 | 295,082 |
| 49 | COST | \$37,445 | \$27,305 | \$26,543 | \$31,327 | \$36,641 | \$60,703 | \$219,964 |
| 50 | COST PER THERM | \$0.7130 | \$0.7428 | \$0.7678 | \$0.7718 | \$0.7620 | \$0.7352 | \$0.7454 |

