REVISED CONVERSION OF GAS COSTS - GALLONS TO THERMS SUMMER PERIOD 2017

| | (1) | (2) | (3) | (4) | (5) | (6) |
|------------------------|-------------|----------------------|---------|---------|----------------------|---------------------|
| | | | VOLU | JMES | UNIT | COST |
| | <u>UNIT</u> | CONVERSION FACTOR | GALLONS | THERMS | PER <u>GALLON</u> | PER <u>THERM</u> |
| PROPANE FROM INVENTORY | GALLONS | 0.91502 | 394,448 | 360,928 | \$0.7909 | \$0.8643 |

REVISED CALCULATION OF COST OF GAS RATE SUPPLY / DEMAND BALANCE SUMMER PERIOD 2017

| | | PRIOR | MAY-17 | JUN-17 | JUL-17 | AUG-17 | SEP-17 | OCT-17 | TOTAL |
|----|-------------------------------|-------------|-----------|----------|----------|----------|----------|----------|-----------|
| | | | | | | | | | |
| | SENDOUT (THERMS) | | | | | | | | |
| 1 | FIRM SENDOUT * | | 67,945 | 44,331 | 40,943 | 43,281 | 54,719 | 95,857 | 347,076 |
| 2 | COMPANY USE | | 2,385 | 2,072 | 2,017 | 1,986 | 2,339 | 3,053 | 13,852 |
| 3 | TOTAL SENDOUT | | 70,330 | 46,403 | 42,960 | 45,267 | 57,058 | 98,910 | 360,928 |
| 4 | * UNACCTED FOR VOLS INCLUDED | | 2,424 | 1,582 | 1,461 | 1,544 | 1,952 | 3,420 | 12,384 |
| | COSTS | | | | | | | | |
| 5 | PROPANE SENDOUT FROM ABOVE | | 70,330 | 46,403 | 42,960 | 45,267 | 57,058 | 98,910 | 360,928 |
| 6 | COST/THERM FROM SCHEDULE D | | \$0.8142 | \$0.8435 | \$0.8595 | \$0.8722 | \$0.8849 | \$0.8964 | \$0.8643 |
| 7 | TOTAL PROPANE COSTS | | \$57,260 | \$39,139 | \$36,926 | \$39,481 | \$50,493 | \$88,664 | \$311,963 |
| | REVENUES | | | | | | | | |
| 8 | FIRM SALES (THERMS) | | 96,707 | 56,672 | 49,784 | 32,358 | 38,474 | 58,499 | 332,494 |
| 9 | RATE/THERM PER TARIFF | | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 |
| 10 | TOTAL REVENUES | | \$60,743 | \$35,596 | \$31,270 | \$20,324 | \$24,166 | \$36,744 | \$208,843 |
| | | | | | | | | | |
| 11 | (OVER)/UNDER COLLECTION | | (\$3,483) | \$3,543 | \$5,656 | \$19,157 | \$26,327 | \$51,920 | \$103,120 |
| 12 | INTEREST FROM SCHEDULE F | | (\$323) | (\$324) | (\$310) | (\$273) | (\$202) | (\$81) | (\$1,513) |
| 13 | FINAL (OVER)/UNDER COLLECTION | (\$101,595) | (\$3,806) | \$3,219 | \$5,346 | \$18,884 | \$26,125 | \$51,839 | \$12 |

REVISED PROPANE SPOT MARKET PURCHASE COST ANALYSIS SUMMER PERIOD 2017

| | | (1) | | (2) Broker | | (3) Pipeline | | (4) PERC | | (5) Supplier | | (6) Cost | | (7) Trucking | | (8) | | (9) |
|---|-----|-------------|---|---------------|---|-------------------|---|-------------|---|-----------------|---|-------------|---|-----------------|---|-------------|---|-----------|
| | | Mt. Belvieu | 1 | Fee | | Rate ² | | Fee | | Charge | | @ Selkirk | | to Keene | 3 | \$ per Gal. | | per Therm |
| 1 | MAY | 0.6154 | + | 0.0100 | + | 0.0000 | + | 0.0040 | + | 0.1200 | = | 0.7494 | + | 0.0601 | = | 0.8095 | = | 0.8847 |
| 2 | JUN | 0.6117 | + | 0.0100 | + | 0.0000 | + | 0.0040 | + | 0.1200 | = | 0.7457 | + | 0.0601 | = | 0.8058 | = | 0.8806 |
| 3 | JUL | 0.6129 | + | 0.0100 | + | 0.0000 | + | 0.0040 | + | 0.1200 | = | 0.7469 | + | 0.0601 | = | 0.8070 | = | 0.8820 |
| 4 | AUG | 0.6175 | + | 0.0100 | + | 0.0000 | + | 0.0040 | + | 0.1200 | = | 0.7515 | + | 0.0601 | = | 0.8116 | = | 0.8870 |
| 5 | SEP | 0.6258 | + | 0.0100 | + | 0.0000 | + | 0.0040 | + | 0.1200 | = | 0.7598 | + | 0.0601 | = | 0.8199 | = | 0.8961 |
| 6 | OCT | 0.6321 | + | 0.0100 | + | 0.0000 | + | 0.0040 | + | 0.1200 | = | 0.7661 | + | 0.0601 | = | 0.8262 | = | 0.9029 |

^{1.} Propane futures market quotations (cmegroup.com) on 03/09/17 close. See Appendix 1.

^{2.} Summer prices are quoted on a delivered basis with pipeline charges embedded in delivered price

^{3.} Northern Gas Transport trucking rate including diesel fuel surcharge. See Appendix 3A & 3B.

REVISED PROPANE INVENTORY & WEIGHTED AVERAGE COST OF GAS CALCULATION SUMMER PERIOD 2017

LINE NO.

| LINE NO. | | | | D- | | | | |
|----------|-----------------------------|---------------|--------------|---------------------------|-------------|----------|---------|-----------|
| 1 | May 2017 (Forecasted) | Therms | Cost | <u>Ra</u> <u>Therm</u> | <u>Gal.</u> | | | |
| 2 | Beginning Balance | 62,428 | \$46,242 | \$0.7407 | \$0.6778 | | | |
| 3 | Purchases Received | 65,000 | \$57,506 | \$0.8847 | \$0.8095 | | | |
| 4 | Total Available | 127,428 | \$103,748 | \$0.8142 | \$0.7450 | | | |
| 5 | Less Sendout | 70,330 | \$57,260 | \$0.8142 | \$0.7450 | | 70,330 | \$57,260 |
| 6 | Ending Balance | 57,098 | \$46,488 | \$0.8142 | \$0.7450 | | | |
| | | | | Ra | | | | |
| 7 | June 2017 (Forecasted) | <u>Therms</u> | <u>Cost</u> | <u>Therm</u> | <u>Gal.</u> | | | |
| 8 | Beginning Balance | 57,098 | \$46,488 | \$0.8142 | \$0.7450 | | | |
| 9 | Purchases Received | 45,000 | \$39,627 | \$0.8806 | \$0.8058 | | | |
| 10 | Total Available | 102,098 | \$86,115 | \$0.8435 | \$0.7718 | | | |
| 11 | Less Sendout | 46,403 | \$39,139 | \$0.8435 | \$0.7718 | | 46,403 | \$39,139 |
| 12 | Ending Balance | 55,695 | \$46,976 | \$0.8434 | \$0.7718 | | | |
| 40 | I. I. 2047 (Faranastad) | Th | 04 | <u>Ra</u> | | | | |
| 13 | July 2017 (Forecasted) | <u>Therms</u> | <u>Cost</u> | <u>Therm</u> | <u>Gal.</u> | | | |
| 14 | Beginning Balance | 55,695 | \$46,976 | \$0.8434 | \$0.7718 | | | |
| 15 | Purchases Received | 40,000 | \$35,279 | \$0.8820 | \$0.8070 | | | |
| 16 | Total Available | 95,695 | \$82,255 | \$0.8596 | \$0.7865 | | | |
| 17 | Less Sendout | 42,960 | \$36,926 | \$0.8595 | \$0.7865 | | 42,960 | \$36,926 |
| 18 | Ending Balance | 52,735 | \$45,329 | \$0.8596 | \$0.7865 | | | |
| | | | | Ra | | | | |
| 19 | August 2017 (Forecasted) | <u>Therms</u> | <u>Cost</u> | <u>Therm</u> | <u>Gal.</u> | | | |
| 20 | Beginning Balance | 52,735 | \$45,329 | \$0.8596 | \$0.7865 | | | |
| 21 | Purchases Received | 45,000 | \$39,914 | \$0.8870 | \$0.8116 | | | |
| 22 | Total Available | 97,735 | \$85,243 | \$0.8722 | \$0.7981 | | | |
| 23 | Less Sendout | 45,267 | \$39,481 | \$0.8722 | \$0.7981 | | 45,267 | \$39,481 |
| 24 | Ending Balance | 52,468 | \$45,762 | \$0.8722 | \$0.7981 | | | |
| | | | | Ra | <u>ite</u> | | | |
| 25 | September 2017 (Forecasted) | <u>Therms</u> | <u>Cost</u> | <u>Therm</u> | <u>Gal.</u> | | | |
| 26 | Beginning Balance | 52,468 | \$45,762 | \$0.8722 | \$0.7981 | | | |
| 27 | Purchases Received | 60,000 | \$53,765 | \$0.8961 | \$0.8199 | | | |
| 28 | Total Available | 112,468 | \$99,527 | \$0.8849 | \$0.8097 | | | |
| 29 | Less Sendout | 57,058 | \$50,493 | \$0.8849 | \$0.8097 | | 57,058 | \$50,493 |
| 30 | Ending Balance | 55,410 | \$49,034 | \$0.8849 | \$0.8097 | | | |
| | | | | Ra | | | | |
| 31 | October 2017 (Forecasted) | <u>Therms</u> | <u>Cost</u> | <u>Therm</u> | <u>Gal.</u> | | | |
| 32 | Beginning Balance | 55,410 | \$49,034 | \$0.8849 | \$0.8097 | | | |
| 33 | Purchases Received | 98,000 | \$88,485 | \$0.9029 | \$0.8262 | | | |
| 34 | Total Available | 153,410 | \$137,519 | \$0.8964 | \$0.8202 | | | |
| 35 | Less Sendout | 98,910 | \$88,664 | \$0.8964 | \$0.8202 | | 98,910 | \$88,664 |
| 36 | Ending Balance | 54,500 | \$48,855 | \$0.8964 | \$0.8202 | | | |
| 37 | AVE | RAGE SUMI | MER RATE - : | SENDOUT | | \$0.8643 | 360,928 | \$311,963 |

REVISED PRIOR PERIOD (OVER)/UNDER COLLECTION SUMMER PERIOD 2016

| | PRIO COSTS | R <u>MAY-16</u> | <u>JUN-16</u> | <u>JUL-16</u> | <u>AUG-16</u> | <u>SEP-16</u> | OCT-16 | [1] <u>TOTAL</u> |
|----|---|-----------------|---------------|---------------|---------------|---------------|------------|---------------------|
| 1 | FIRM SENDOUT (therms) | 63,810 | 41,716 | 39,482 | 41,737 | 47,858 | 85,274 | 319,878 |
| 2 | COMPANY USE (therms) | 2,385 | 2,072 | 2,017 | 1,986 | 2,339 | 3,053 | 13,851 |
| 3 | TOTAL SENDOUT (therms) | 66,195 | 43,788 | 41,499 | 43,723 | 50,197 | 88,327 | 333,729 |
| 4 | COST PER THERM | \$0.9017 | \$0.8394 | \$0.7918 | \$0.6545 | \$0.6779 | \$0.7311 | \$0.7687 |
| 5 | DIRECT PROPANE PURCHASED COSTS | \$59,690 | \$36,758 | \$32,860 | \$28,615 | \$34,028 | \$64,574 | \$256,524 |
| 6 | DIRECT PROPANE PRODUCED COSTS | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 7 | REMOVAL OF HP CONVERSION COSTS | \$0 | \$0 | \$0 | (\$27) | (\$736) | (\$14,797) | (\$15,560) |
| 8 | PROPANE COST ADJUSTMENTS | \$0 | \$33,567 | (\$6,617) | \$0 | \$0 | \$0 | \$26,950 |
| 9 | UNBILLED PROPANE COSTS (NET) | \$0 | \$0 | \$1,013 | (\$3,036) | (\$448) | \$15,656 | \$13,185 |
| 10 | TOTAL PROPANE COSTS | \$59,690 | \$70,325 | \$27,257 | \$25,552 | \$32,844 | \$65,432 | \$281,100 |
| | REVENUES | | | | | | | |
| 11 | FIRM SALES (therms) | 99,306 | 55,173 | 44,525 | 32,358 | 38,474 | 52,146 | 321,982 |
| 12 | RATE PER THERM | \$0.4019 | \$0.4019 | \$0.4019 | \$0.4019 | \$0.4019 | \$0.5024 | \$0.4182 |
| 13 | TOTAL REVENUES | \$39,911 | \$22,174 | \$17,895 | \$13,005 | \$15,463 | \$26,198 | \$134,645 |
| 14 | (OVER)/UNDER COLLECTION | \$19,779 | \$48,151 | \$9,362 | \$12,547 | \$17,382 | \$39,234 | \$146,455 |
| 15 | INTEREST AMOUNT | (\$694) | (\$515) | (\$354) | (\$272) | (\$184) | (\$66) | (\$2,085) |
| 16 | TOTAL (OVER)/UNDER COLLECTION - (\$244, | 121) \$19,085 | \$47,636 | \$9,008 | \$12,275 | \$17,198 | \$39,169 | (\$99,751) |

^[1] Slightly off due to rounding

REVISED INTEREST CALCULATION SUMMER PERIOD 2017

| | | (1) BEG. OF | (2) (OVER) | (3) | (4) END OF | (5) AVERAGE | (6) ANNUAL | (7) | (8) MONTH END |
|------|----------|----------------|---------------|---------|---------------|----------------|---------------|-----------|------------------|
| | | MONTH | ÙNDEŔ | | MONTH | BALANCE | INTEREST | INTEREST | BAL. WITH |
| LINE | MONTH | BALANCE | COLLECT | REFUNDS | BALANCE | COL. | RATE | AMOUNT | INTEREST |
| NO. | | | | | (COL.1+2+3) | (COL. [1+4]/2) | | | (COL. 4+7) |
| | | | | | | | | | |
| 1 | NOV 2016 | (\$99,751) | \$0 | \$0 | (\$99,751) | (\$99,751) | 3.50% | (\$291) | (\$100,042) |
| 2 | DEC | (100,042) | 0 | 0 | (100,042) | (100,042) | 3.50% | (292) | (100,334) |
| 3 | JAN 2017 | (100,334) | 0 | 0 | (100,334) | (100,334) | 3.75% | (314) | (100,648) |
| 4 | FEB | (100,648) | 0 | 0 | (100,648) | (100,648) | 3.75% | (315) | (100,963) |
| 5 | MAR | (100,963) | 0 | 0 | (100,963) | (100,963) | 3.75% | (316) | (101,279) |
| 6 | APR | (101,279) | 0 | 0 | (101,279) | (101,279) | 3.75% | (316) | (101,595) |
| 7 | MAY | (101,595) | (3,483) | 0 | (105,078) | (103,337) | 3.75% | (323) | (105,401) |
| 8 | JUN | (105,401) | 3,543 | 0 | (101,858) | (103,630) | 3.75% | (324) | (102,182) |
| 9 | JUL | (102,182) | 5,656 | 0 | (96,526) | (99,354) | 3.75% | (310) | (96,836) |
| 10 | AUG | (96,836) | 19,157 | 0 | (77,679) | (87,258) | 3.75% | (273) | (77,952) |
| 11 | SEP | (77,952) | 26,327 | 0 | (51,625) | (64,789) | 3.75% | (202) | (51,827) |
| 12 | OCT | (51,827) | 51,920 | 0 | 93 | (25,867) | 3.75% | (81) | 12 |
| 13 | | | | | | | <u>-</u> | | <u>-</u> ' |
| 14 | | | | | | | _ | (\$3,357) | _ |

¹⁵ PRIOR PERIOD BEG. BALANCE w/INTEREST @ MAY 1, 2016 =

(TRANSFER TO SCHEDULE B, LINE 13) (UNLESS ADJUSTMENTS UNDER COLUMN 2 LINES 1-6)

PRIOR PERIOD BEG. BAL. @ NOV 1, 2015 + INTEREST AMOUNT FOR NOV 2015 - APR 2016:

| | LIBERTY UTILITIES - KEENE DIVISION Revised Weather Normalization - Firm Sendout | | | | | | | | | | | | | | |
|--------|---|-----------------|-----------------|-----------------------------|-----------------------------|--------------------|--------------------------|-------------------|------------------|--------------------|-------------------|--------------------|-------------------|--|--|
| Destad | Actual Firm | Dana Han | Hastilas | Actual Calendar Month | Normal Calendar Month | Colder (Warmer) | Actual Unit Heat Load | Weather | Normal | Normalized Firm | Actual Company | Unaccounted For | Total Firm | | |
| Period | Sendout (1) | Base Use (2) | Heat Use (3) | Degree Days (4) | Degree Days (5) | Than Normal (6) | Therm/DD (7) | Adjustment (8) | Heat Load (9) | Sendout (10) | Use (11) | 3.70% (12) | Sendout (13) | | |
| | (1) | ζ=/ | (1) - (2) | (1) | (=) | (4) - (5) | (3) / (4) | (6) X (7) | (3) + (8) | (1) - (3) + (9) | (**) | (10 - 11) * 3.70% | (10) - (11) +(12) | | |
| May-16 | 66,195 | 42,611 | 23,584 | 262 | 281 | (19) | 90.02 | 1,710 | 25,294 | 67,905 | 2,385 | 2,424 | 67,945 | | |
| Jun-16 | 43,788 | 42,611 | 1,177 | 41 | 77 | (36) | 28.71 | 1,033 | 2,210 | 44,821 | 2,072 | 1,582 | 44,331 | | |
| Jul-16 | 41,499 | 42,611 | 0 | 11 | 13 | (2) | 0.00 | 0 | 0 | 41,499 | 2,017 | 1,461 | 40,943 | | |
| Aug-16 | 43,723 | 42,611 | 0 | 1 | 25 | (24) | 0.00 | 0 | 0 | 43,723 | 1,986 | 1,544 | 43,281 | | |
| Sep-16 | 50,197 | 42,611 | 7,586 | 102 | 168 | (66) | 74.37 | 4,909 | 12,495 | 55,106 | 2,339 | 1,952 | 54,719 | | |
| Oct-16 | 88,327 | 42,611 | 45,716 | 434 | 502 | (68) | 105.34 | 7,163 | 52,879 | 95,490 | 3,053 | 3,420 | 95,857 | | |
| Total | 333,729 | 255,666 | 78,063 | 851 | 1,066 | (215) | | 14,815 | 92,878 | 348,544 | 13,852 | 12,384 | 347,076 | | |

| | LIBERTY UTILITIES - KEENE DIVISION Revised Weather Normalization - Sales Rate Residential | | | | | | | | | | | | | | |
|--------|---|------------------------|-----------|--------------|--|--|-----------------------------|--------------------------------------|-----------------------|---------------------|--|--|--|--|--|
| Period | Billing Cycle Customers | Billing Cycle Sales | Base Load | Heating Load | Billing Cycle Monthly Actual Degree Days | Billing Cycle Monthly Normal Degree Days | Colder (Warmer) Than Normal | Actual Unit Heat Load Therm/DD | Weather Adjustment | Normal Heat Load | Normal Firm Billing Cycle Therms | | | | |
| | (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) | | | | | | | | | | | | | | |
| | | | | (1) - (2) | | | (4) - (5) | (3) / (4) | (6) X (7) | (3) + (8) | (1) - (3) + (9) | | | | |
| May-16 | 747 | 19,059 | 6,286 | 12,772 | 562 | 539 | 23 | 22.73 | (523) | 12,250 | 18,536 | | | | |
| Jun-16 | 722 | 10,180 | 6,286 | 3,894 | 229 | 250 | (21) | 17.00 | 357 | 4,251 | 10,537 | | | | |
| Jul-16 | 727 | 6,959 | 6,286 | 673 | 36 | 67 | (31) | 18.69 | 579 | 1,252 | 7,538 | | | | |
| Aug-16 | 730 | 5,614 | 6,286 | 0 | 9 | 15 | (6) | 0.00 | 0 | 0 | 5,614 | | | | |
| Sep-16 | 740 | 5,906 | 6,286 | 0 | 19 | 51 | (32) | 0.00 | 0 | 0 | 5,906 | | | | |
| Oct-16 | 739 | 8,966 | 6,286 | 2,680 | 153 | 219 | (66) | 17.51 | 1,156 | 3,835 | 10,122 | | | | |
| Total | | 56,683 | 37,718 | 20,018 | 1,008 | 1,141 | (133) | 11.80 | 1,569 | 21,588 | 58,253 | | | | |

| | LIBERTY UTILITIES - KEENE DIVISION Revised Weather Normalization - Sales Rate Commercial | | | | | | | | | | | | | | |
|--------|--|------------------------|-----------|--------------|--|--|--------------------------------|--------------------------------------|-----------------------|---------------------|--|--|--|--|--|
| | | | | Revised We | ather Normalizati | on - Sales Rate | e Commercial | | | | | | | | |
| Period | Billing Cycle Customers | Billing Cycle Sales | Base Load | Heating Load | Billing Cycle Monthly Actual Degree Days | Billing Cycle Monthly Normal Degree Days | Colder (Warmer) Than Normal | Actual Unit Heat Load Therm/DD | Weather Adjustment | Normal Heat Load | Normal Firm Billing Cycle Therms | | | | |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | | | | |
| | | | | (1) - (2) | | | (4) - (5) | (3) / (4) | (6) X (7) | (3) + (8) | (1) - (3) + (9) | | | | |
| May-16 | 467 | 80,247 | 32,155 | 48,092 | 579 | 554 | 25 | 83.06 | (2,077) | 46,015 | 78,171 | | | | |
| Jun-16 | 467 | 44,993 | 32,155 | 12,838 | 236 | 257 | (21) | 54.40 | 1,142 | 13,980 | 46,135 | | | | |
| Jul-16 | 455 | 37,566 | 32,155 | 5,411 | 37 | 69 | (32) | 146.24 | 4,680 | 10,091 | 42,246 | | | | |
| Aug-16 | 457 | 26,744 | 32,155 | 0 | 10 | 15 | (5) | 0.00 | 0 | 0 | 26,744 | | | | |
| Sep-16 | 445 | 32,568 | 32,155 | 0 | 15 | 45 | (30) | 0.00 | 0 | 0 | 32,568 | | | | |
| Oct-16 | 460 | 43,180 | 32,155 | 11,025 | 140 | 206 | (66) | 78.75 | 5,197 | 16,222 | 48,377 | | | | |
| Total | | 265,298 | 192,931 | 77,365 | 1,017 | 1,146 | (129) | 69.32 | 8,943 | 86,308 | 274,241 | | | | |

Summary - Total Summer Season Billed Sales

| | Actual 2016 | Normalized |
|-----------|-------------|-------------------|
| May | 99,306 | 96,707 |
| June | 55,173 | 56,672 |
| July | 44,525 | 49,784 |
| August | 32,358 | 32,358 |
| September | 38,474 | 38,474 |
| October | 52,146 | 58,499 |
| Total | 321.981 | 332,494 |

LIBERTY UTILITIES - KEENE DIVISION Revised Typical Residential Heating Bill - Fixed Price Option Program Forecasted 2017 Summer Period vs. Actual 2016 Summer Period

| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|----------|--|--------------|---------------|-------------|--------------|--------------|--------------|-------------------|----------|----------|----------|------------|------------------|----------|-------------------|-------------------|
| 1 2 | 12 MONTHS ENDED 10/2016 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Winter Nov-Apr | May-16 | Jun-16 | Jul-16 | Aug-16 | Sep-16 | Oct-16 | Summer May-Oct | Total Nov-Oct |
| 3 4 | Typical Usage - therms (1) Residential Heating | 40 | 76 | 104 | 110 | 117 | 87 | 534 | 57 | 29 | 17 | 17 | 22 | 17 | 159 | 693 |
| 5 6 | Customer Charge Delivery Charge: Winter Summer | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$54.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$54.00 | \$108.00 |
| 7 | First 80 therms @ \$1.1522 \$1.1522 | \$46.09 | \$87.57 | \$92.18 | \$92.18 | \$92.18 | \$92.18 | \$502.38 | \$65.68 | \$33.41 | \$19.59 | \$19.59 | \$25.35 | \$19.59 | \$183.21 | \$685.59 |
| 8 | Next 120 therms @ \$0.9442 \$0.9442 | \$0.00 | \$0.00 | \$22.66 | \$28.33 | \$34.94 | \$6.61 | \$92.54 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$92.54 |
| 9 | Over 200 therms @ \$0.7946 \$0.7946 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 10 | Base Delivery Revenue Total | \$55.09 | \$96.57 | \$123.84 | \$129.51 | \$136.12 | \$107.79 | \$648.92 | \$74.68 | \$42.41 | \$28.59 | \$28.59 | \$34.35 | \$28.59 | \$237.21 | \$886.13 |
| 11 | Deferred Revenue Surcharge Rate | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | |
| 12 | Deferred Revenue Surcharge Total | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 13 | COG Rates | \$0.8988 | \$0.8988 | \$0.8988 | \$0.8988 | \$0.8988 | \$0.8988 | \$0.8988 | \$0.4019 | \$0.4019 | \$0.4019 | \$0.4019 | \$0.4019 | \$0.5024 | \$0.4126 | |
| 14 | Cost of Gas Total | \$35.95 | \$68.31 | \$93.48 | \$98.87 | \$105.16 | \$78.20 | \$479.97 | \$22.91 | \$11.66 | \$6.83 | \$6.83 | \$8.84 | \$8.54 | \$65.61 | \$545.58 |
| 15 | Total Bill | \$91 | \$165 | \$217 | \$228 | \$241 | \$186 | \$1.129 | \$98 | \$54 | \$35 | \$35 | \$43 | \$37 | \$303 | \$1.432 |
| | | • | | • | | • | - | | | | • | | | - | | |
| | | | | | | | | | | | | | | | | |
| 16 17 | 12 MONTHS ENDED 10/2017 | Nov-16 | Dec-16 | Jan-17 | Feb-17 | Mar-17 | Apr-17 | Winter Nov-Apr | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Summer May-Oct | Total Nov-Oct |
| 18 19 | Typical Usage - therms (1) Residential Heating | 40 | 76 | 104 | 110 | 117 | 87 | 534 | 57 | 29 | 17 | 17 | 22 | 17 | 159 | 693 |
| 20 21 | Customer Charge Delivery Charge: Winter Summer | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$54.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$54.00 | \$108.00 |
| 22 | First 80 therms @ \$1.1522 \$1.1522 | \$46.09 | \$87.57 | \$92.18 | \$92.18 | \$92.18 | \$92.18 | \$502.38 | \$65.68 | \$33.41 | \$19.59 | \$19.59 | \$25.35 | \$19.59 | \$183.21 | \$685.59 |
| 23 | Next 120 therms @ \$0.9442 \$0.9442 | \$0.00 | \$0.00 | \$22.66 | \$28.33 | \$34.94 | \$6.61 | \$92.54 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$92.54 |
| 24 | Over 200 therms @ \$0.7946 \$0.7946 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 25 | Base Delivery Revenue Total | \$55.09 | \$96.57 | \$123.84 | \$129.51 | \$136.12 | \$107.79 | \$648.92 | \$74.68 | \$42.41 | \$28.59 | \$28.59 | \$34.35 | \$28.59 | \$237.21 | \$886.13 |
| 26 | Seasonal Base Delivery Difference from previous year | | | | | | | \$0.00 | | | | | | | \$0.00 | \$0.00 |
| 27 | Seasonal Percent Change from previous year | | | | | | | 0.0% | | | | | | | 0.0% | 0.0% |
| 28 | Deferred Revenue Surcharge Rate | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | |
| 29 | Deferred Revenue Surcharge Total | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 30 | COG Rates | \$1.5352 | \$1.5352 | \$1.5352 | \$1.5352 | \$1.5352 | \$1.5352 | \$1.5352 | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 | |
| | Cost of Gas Total | \$61.41 | \$116.68 | \$159.66 | \$168.87 | \$179.62 | \$133.56 | \$819.80 | \$35.80 | \$18.21 | \$10.68 | \$10.68 | \$13.82 | \$10.68 | \$99.87 | \$919.67 |
| 32 33 | Seasonal COG Difference from previous year Seasonal Percent Change from previous year | | | | | | | \$339.83 70.8% | | | | | | | \$34.26 52.2% | \$374.09 68.6% |
| 34 | Total Bill | \$117 | \$213 | \$284 | \$298 | \$316 | \$241 | \$1,469 | \$110 | \$61 | \$39 | \$39 | \$48 | \$39 | \$337 | \$1,806 |
| 35 | Seasonal Total Bill Difference from previous year | φ11/ | φ ∠ 13 | ₹204 | Ψ 230 | φ 310 | φ∠ 41 | \$339.83 | ψIIU | φυι | φυθ | 499 | ψ + 0 | မှသဗ | \$34.26 | \$374.09 |
| 36 | Seasonal Percent Change from previous year | | | | | | | 30.1% | | | | | | | 11.3% | 26.1% |
| 37 | Seasonal Percent Change resulting from Base Rates (inc. | Def. Revenue | e Surch.) | | | | | 0.0% | | | | | | | 0.0% | 0.0% |
| 38 | Seasonal Percent Change resulting from COG | | | | | | | 30.1% | | | | | | | 11.3% | 26.1% |

⁽¹⁾ Residential Heating Typical Usage: Single family detached home using gas for heat, hot water and cooking.

LIBERTY UTILITIES - KEENE DIVISION Revised Typical Residential Heating Bill - Non-Fixed Price Option Program Forecasted 2017 Summer Period vs. Actual 2016 Summer Period

| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|----------|--|-------------------|---|--------------------|--------------------|--------------------|-------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|---------------------|
| 1 2 | 12 MONTHS ENDED 10/2016 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Арг-16 | Winter Nov-Apr | May-16 | Jun-16 | Jul-16 | Aug-16 | Sep-16 | Oct-16 | Summer May-Oct | Total Nov-Oct |
| 3 4 | Typical Usage - therms (1) <u>Residential Heating</u> | 40 | 76 | 104 | 110 | 117 | 87 | 534 | 57 | 29 | 17 | 17 | 22 | 17 | 159 | 693 |
| 5 6 | Customer Charge Delivery Charge: Winter Summer | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$54.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$54.00 | \$108.00 |
| 7 8 | First 80 therms @ \$1.1522 \$1.1522 Next 120 therms @ \$0.9442 \$0.9442 | \$46.09 \$0.00 | \$87.57 \$0.00 | \$92.18 \$22.66 | \$92.18 \$28.33 | \$92.18 \$34.94 | \$92.18 \$6.61 | \$502.38 \$92.54 | \$65.68 \$0.00 | \$33.41 \$0.00 | \$19.59 \$0.00 | \$19.59 \$0.00 | \$25.35 \$0.00 | \$19.59 \$0.00 | \$183.21 \$0.00 | \$685.59 \$92.54 |
| 9 | Over 200 therms @ \$0.7946 \$0.7946 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 10 | Base Delivery Revenue Total | \$55.09 | \$96.57 | \$123.84 | \$129.51 | \$136.12 | \$107.79 | \$648.92 | \$74.68 | \$42.41 | \$28.59 | \$28.59 | \$34.35 | \$28.59 | \$237.21 | \$886.13 |
| 11 | Deferred Revenue Surcharge Rate | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | |
| 12 | Deferred Revenue Surcharge Total | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 13 | COG Rates | \$0.8788 | \$0.8788 | \$0.8196 | \$0.6910 | \$0.3912 | \$0.5052 | \$0.6609 | \$0.4019 | \$0.4019 | \$0.4019 | \$0.4019 | \$0.4019 | \$0.5024 | \$0.4126 | |
| 14 | Cost of Gas Total | \$35.15 | \$66.79 | \$85.24 | \$76.01 | \$45.77 | \$43.95 | \$352.91 | \$22.91 | \$11.66 | \$6.83 | \$6.83 | \$8.84 | \$8.54 | \$65.61 | \$418.52 |
| 15 | Total Bill | \$90 | \$163 | \$209 | \$206 | \$182 | \$152 | \$1,002 | \$98 | \$54 | \$35 | \$35 | \$43 | \$37 | \$303 | \$1.305 |
| | | | | | | | | | | | | | | | | |
| 16 17 | 12 MONTHS ENDED 10/2017 | Nov-16 | Dec-16 | Jan-17 | Feb-17 | Mar-17 | Apr-17 | Winter Nov-Apr | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Summer May-Oct | Total Nov-Oct |
| 18 19 | Typical Usage - therms (1) Residential Heating | 40 | 76 | 104 | 110 | 117 | 87 | 534 | 57 | 29 | 17 | 17 | 22 | 17 | 159 | 693 |
| 20 21 | Customer Charge Delivery Charge: Winter Summer | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$54.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$9.00 | \$54.00 | \$108.00 |
| 22 | First 80 therms @ \$1.1522 \$1.1522 | \$46.09 | \$87.57 | \$92.18 | \$92.18 | \$92.18 | \$92.18 | \$502.38 | \$65.68 | \$33.41 | \$19.59 | \$19.59 | \$25.35 | \$19.59 | \$183.21 | \$685.59 |
| 23 24 | Next 120 therms @ \$0.9442 \$0.9442 Over 200 therms @ \$0.7946 \$0.7946 | \$0.00 \$0.00 | \$0.00 \$0.00 | \$22.66 \$0.00 | \$28.33 \$0.00 | \$34.94 \$0.00 | \$6.61 \$0.00 | \$92.54 \$0.00 | \$0.00 \$0.00 | \$92.54 \$0.00 |
| | | | • | | · | | , | | | | | | | · | , | |
| 25 26 | Base Delivery Revenue Total Seasonal Base Delivery Difference from previous year | \$55.09 | \$96.57 | \$123.84 | \$129.51 | \$136.12 | \$107.79 | \$648.92 \$0.00 | \$74.68 | \$42.41 | \$28.59 | \$28.59 | \$34.35 | \$28.59 | \$237.21 \$0.00 | \$886.13 \$0.00 |
| 27 | Seasonal Percent Change from previous year | | | | | | | 0.0% | | | | | | | 0.0% | 0.0% |
| 28 | Deferred Revenue Surcharge Rate | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | |
| 29 | Deferred Revenue Surcharge Total | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 30 | COG Rates | \$1.5152 | \$1.6165 | \$1.7694 | \$1.7694 | \$1.2750 | \$1.2750 | \$1.5397 | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 | \$0.6281 | |
| 31 | Cost of Gas Total | \$60.61 | \$122.85 | \$184.02 | \$194.63 | \$149.18 | \$110.93 | \$822.22 | \$35.80 | \$18.21 | \$10.68 | \$10.68 | \$13.82 | \$10.68 | \$99.87 | \$922.09 |
| 32 33 | Seasonal COG Difference from previous year Seasonal Percent Change from previous year | | | | | | | \$469.31 133.0% | | | | | | | \$34.26 52.2% | \$503.57 120.3% |
| 34 | Total Bill | \$116 | \$219 | \$308 | \$324 | \$285 | \$219 | \$1,471 | \$110 | \$61 | \$39 | \$39 | \$48 | \$39 | \$337 | \$1,808 |
| 35 | Seasonal Total Bill Difference from previous year | | | | | | | \$469.31 | | | | | | | \$34.26 | \$503.57 |
| 36 37 | Seasonal Percent Change from previous year Seasonal Percent Change resulting from Base Rates (inc. | Def Revenu | e Surch) | | | | | 46.8% 0.0% | | | | | | | 11.3% 0.0% | 38.6% 0.0% |
| 38 | | Doi: Nevellu | c curcii. | | | | | 46.8% | | | | | | | 11.3% | 38.6% |

⁽¹⁾ Residential Heating Typical Usage: Single family detached home using gas for heat, hot water and cooking.

REVISED BID PREMIUM FOR PRE-PURCHASED GALLONS - PRIOR YEAR

| | Mt. Belvieu | | Pipeline | Br | oker + Suppl | ier | | | | | Keene Div. | Contract | Keene Div. | Fixed | Plan | Contract | Plan | Cost | Per Gallon |
|--------|-------------|---|----------|----|--------------|-----|----------|---|----------|---|------------|----------|------------|-----------|----------|----------|-----------|------------|------------|
| | Price | | Rate | | Fee | | PERC | | Trucking | | Price | Volumes | Cost | Basis Bid | Price | Volumes | Cost | Premium | Premium |
| Apr-16 | \$0.5360 | + | \$0.2165 | + | \$0.0900 | + | \$0.0040 | + | \$0.0673 | = | \$0.9137 | 145,000 | \$132,492 | \$0.302 | \$0.8375 | 145,000 | \$121,433 | (\$11,059) | -\$0.0763 |
| May-16 | \$0.5721 | + | \$0.2165 | + | \$0.0900 | + | \$0.0040 | + | \$0.0673 | = | \$0.9499 | 108,750 | \$103,301 | \$0.302 | \$0.8736 | 108,750 | \$95,006 | (\$8,295) | -\$0.0763 |
| Jun-16 | \$0.5443 | + | \$0.2165 | + | \$0.0900 | + | \$0.0040 | + | \$0.0673 | = | \$0.9220 | 108,750 | \$100,273 | \$0.302 | \$0.8458 | 108,750 | \$91,978 | (\$8,295) | -\$0.0763 |
| Jul-16 | \$0.5388 | + | \$0.2165 | + | \$0.0900 | + | \$0.0040 | + | \$0.0673 | = | \$0.9166 | 145,000 | \$132,904 | \$0.302 | \$0.8403 | 145,000 | \$121,845 | (\$11,059) | -\$0.0763 |
| Aug-16 | \$0.5201 | + | \$0.2165 | + | \$0.0900 | + | \$0.0040 | + | \$0.0673 | = | \$0.8979 | 108,750 | \$97,645 | \$0.302 | \$0.8216 | 108,750 | \$89,350 | (\$8,295) | -\$0.0763 |
| Sep-16 | \$0.5486 | + | \$0.2165 | + | \$0.0900 | + | \$0.0040 | + | \$0.0673 | = | \$0.9264 | 108,750 | \$100,744 | \$0.302 | \$0.8501 | 108,750 | \$92,450 | (\$8,295) | -\$0.0763 |
| Total | | | | | | | | | | | | 725,000 | \$667,359 | | | 725,000 | \$612,062 | (\$55,297) | -\$0.0763 |

REVISED COMPARISON OF CONTRACT COST TO HYPOTHETICAL SPOT COST WINTER SEASON 2016-2017 TO DATE

| Delivery Month | Contract Price (1) | Contract Volumes (2) | Contract Cost (3) | Average Spot Price (4) | Contract Volumes (5) | Hypothetical Spot Cost (6) | Incremental Cost / (Savings) of Plan (7) |
|-------------------|--------------------------|----------------------------|-------------------------|------------------------------|----------------------------|----------------------------------|---|
| | | | (1) x (2) | | | (4) x (5) | (3) - (6) |
| Nov-16 | \$0.8290 | 95,000 | \$78,755 | \$0.8330 | 95,000 | \$79,135 | (\$380) |
| Dec-16 | \$0.8394 | 145,000 | \$121,709 | \$1.0196 | 145,000 | \$147,842 | (\$26,133) |
| Jan-17 | \$0.8494 | 170,000 | \$144,404 | \$1.0880 | 170,000 | \$184,960 | (\$40,556) |
| Feb-17 | \$0.8509 | 140,000 | \$119,123 | \$1.0880 | 140,000 | \$152,320 | (\$33,198) |
| Total | | | \$463,991 | | | \$564,257 | (\$100,266) |

-17.8%

REVISED PROPANE PURCHASING STABILIZATION PLAN PRE-PURCHASES AND DELIVERY SCHEDULE

| Delivery | Pre-Purchases (Gallons) | | | | | | | | | | |
|-----------|-------------------------|--------|--------|---------|--------|--------|---------|--|--|--|--|
| Month | Apr-17 | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 | Total | | | | |
| Nov-17 | 15,069 | 11,302 | 11,302 | 15,069 | 11,302 | 11,302 | 75,346 | | | | |
| Dec-17 | 23,000 | 17,250 | 17,250 | 23,000 | 17,250 | 17,250 | 115,000 | | | | |
| Jan-18 | 26,966 | 20,224 | 20,224 | 26,966 | 20,224 | 20,224 | 134,828 | | | | |
| Feb-18 | 22,207 | 16,655 | 16,655 | 22,207 | 16,655 | 16,655 | 111,034 | | | | |
| Mar-18 | 17,448 | 13,086 | 13,086 | 17,448 | 13,086 | 13,086 | 87,240 | | | | |
| Apr-18 | 10,310 | 7,733 | 7,733 | 10,310 | 7,733 | 7,733 | 51,552 | | | | |
| Total | 115,000 | 86,250 | 86,250 | 115,000 | 86,250 | 86,250 | 575,000 | | | | |
| Monthly % | 20.0% | 15.0% | 15.0% | 20.0% | 15.0% | 15.0% | | | | | |

The monthly allocation percentage for the pre-purchases is unchanged.