

Schedules

Liberty Utilities (EnergyNorth Natural Gas) Corp.
d/b/a Liberty Utilities
Peak 2015 - 2016 Winter Cost of Gas Filing

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Summary

1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**
2 **d/b/a Liberty Utilities**
3 **Peak 2015 - 2016 Winter Cost of Gas Filing**
4 **Summary**

Summary
Page 1

| | Reference | PK 15-16 Nov - Apr (c) |
|--|---------------------------------|------------------------------|
| (a) | (b) | |
| 9 Anticipated Direct Cost of Gas | | |
| 10 Purchased Gas: | | |
| 11 Demand Costs: | Sch. 5A, col (k), In 43 | \$ 7,958,775 |
| 12 Supply Costs | Sch. 6, col (i), In 44 | 51,450,609 |
| 13 | | |
| 14 Storage Gas: | | |
| 15 Demand, Capacity: | Sch. 5A, col (k), In 58 | \$ 987,267 |
| 16 Commodity Costs: | Sch. 6, col (i), In 47 | 5,489,978 |
| 17 | | |
| 18 Produced Gas: | Sch. 6, col (i), In 53 | \$ 3,547,477 |
| 19 | | |
| 20 Hedge Contract (Savings)/Loss | Sch. 7, col (i), In 34 | \$ 176,262 |
| 21 Hedge Underground Storage Contract (Savings)/Loss | Sch. 16, col (e), In 172 | \$ - |
| 22 | | |
| 23 Total Unadjusted Cost of Gas | | \$ 69,610,368 |
| 24 | | |
| 25 Adjustments | | |
| 26 | | |
| 27 Prior Period (Over)/Under Recovery) | Sch. 3, col (c) In 28 | \$ (4,339,198) |
| 28 Interest 05/01/15 - 10/31/15 | Sch. 3, col (q) In 193 | (140,799) |
| 29 Prior Period Adjustments | Sch. 4, In 26 col (b) | - |
| 30 Refunds from Suppliers | Sch. 4, In 26 col (c) | (358,691) |
| 31 Broker Revenues | Sch. 4, In 26 col (d) | (1,917,919) |
| 32 Fuel Financing | Sch. 4, In 26 col (e) | - |
| 33 Transportation CGA Revenues | Sch. 4, In 26 col (f) | 35,761 |
| 34 Interruptible Sales Margin | Sch. 4, In 26 col (g) | - |
| 35 Capacity Release and Off System Sales Margins | Sch. 4, In 26 col (h) + col (i) | (3,512,739) |
| 36 Hedging Costs | Sch. 4, In 26 col (j) | - |
| 37 FPO Premium - Collection | | |
| 38 Fixed Price Option Administrative Costs | Sch. 4, In 26 col (k) | 49,565 |
| 39 | | |
| 40 Total Adjustments | | \$ (10,184,020) |
| 41 | | |
| 42 Total Anticipated Direct Costs | In 23 + 40 | \$ 59,426,348 |
| 43 | | |
| 44 Anticipated Indirect Cost of Gas | | |
| 45 Working Capital | | |
| 46 Total Unadjusted Anticipated Cost of Gas | Ln 23 | \$ 69,610,368 |
| 47 Lead Lag Days / 365 | DG 10-017, 14.27 / 365 | 0.0391 |
| 48 Prime Rate | | 3.25% |
| 49 Working Capital Percentage | per GTC 16(f), In 47 * In 48 | 0.127% |
| 50 Working Capital | In 46 * In 49 | 88,467 |
| 51 Plus: Working Capital Reconciliation | Sch. 3, col (c), In 100 | (28,115) |
| 52 | | |
| 53 Total Working Capital Allowance | In 50 + 51 | \$ 60,352 |
| 54 | | |
| 55 Bad Debt | | |
| 56 Total Unadjusted Anticipated Cost of Gas | In 23 | \$ 69,610,368 |
| 57 Less Refunds | In 30 | (358,691) |
| 58 Plus Working Capital | In 53 | 60,352 |
| 59 Plus Prior Period (Over) Under Recovery | In 27 | (4,339,198) |
| 60 Subtotal | | \$ 64,972,831 |
| 61 Bad Debt Percentage | per GTC 16(f) | 3.47% |
| 62 | | |
| 63 Bad Debt Allowance | In 60 * In 61 | \$ 2,254,557 |
| 64 Prior Period Bad Debt Allowance | Sch. 3, col (c), In 181 | 720,643 |
| 65 | | |
| 66 Total Bad Debt Allowance | In 63 + 64 | \$ 2,975,200 |
| 67 | | |
| 68 Production and Storage Capacity | per GTC16(f) | \$ 1,980,428 |
| 69 | | |
| 70 Miscellaneous Overhead | per GTC 16(f) | \$ 13,170 |
| 71 Sales Volume | Sch. 10B, In 23/1000 | 85,914 |
| 72 Divided by Total Sales | Sch. 10B, In 23/1000 | 110,150 |
| 73 Ratio | | 78.00% |
| 74 | | |
| 75 Miscellaneous Overhead | In 70 * 73 | \$ 10,272 |
| 76 | | |
| 77 Total Anticipated Indirect Cost of Gas | In 53 + 66 + 68 + 75 | \$ 5,026,252 |
| 78 | | |
| 79 Total Cost of Gas | In 42 + 77 | \$ 64,452,601 |
| 80 | | |
| 81 Projected Forecast Sales (Therms) | Sch. 3, col (q), In 52 | 85,749,300 |

Schedule 1

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 d/b/a Liberty Utilities

3 Peak 2015 - 2016 Winter Cost of Gas Filing

4 Summary of Supply and Demand Forecast

| | | Peak Costs | | | | | | | | Peak Period |
|-------------------------------|-----------------------|-----------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 7 For Month of: | | May 14 - Oct 14 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | May-16 | Nov - Apr |
| 8 (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) |
| 9 I. Gas Volumes (Therms) | | | | | | | | | 1,581,922 | 1.7% |
| 11 A. Firm Demand Volumes | | | | | | | | | | |
| 12 Firm Gas Sales | Sch. 10B, In 23 | - | 2,163,725 | 14,192,502 | 19,058,088 | 19,626,237 | 16,277,378 | 13,532,718 | 5,669,827 | 90,520,475 |
| 13 Lost Gas (Unaccounted for) | | - | 165,567 | 278,600 | 348,114 | 285,479 | 210,511 | 147,798 | | 1,436,068 |
| 14 Company Use | | - | 16,816 | 28,296 | 35,356 | 28,995 | 21,380 | 15,011 | | 145,854 |
| 15 Unbilled Therms | | - | 8,272,534 | 3,368,616 | 2,884,788 | (1,631,478) | (3,008,127) | (4,216,505) | (5,669,827) | 0 |
| 17 Total Firm Volumes | Sch. 6, In 92 | - | 10,618,641 | 17,868,013 | 22,326,346 | 18,309,233 | 13,501,142 | 9,479,022 | | 92,102,397 |
| 19 B. Supply Volumes (Therms) | | | | | | | | | | |
| 20 Pipeline Gas: | | | | | | | | | | |
| 21 Dawn Supply | Sch. 6, In 63 | - | 836,662 | 921,223 | 935,514 | 851,729 | 878,077 | 844,268 | | 5,267,474 |
| 22 Niagara Supply | Sch. 6, In 64 | - | 653,294 | 719,148 | 730,305 | 664,495 | 685,467 | 659,233 | | 4,111,942 |
| 23 TGP Supply (Direct) | Sch. 6, In 65 | - | 4,768,976 | 3,122,500 | 3,170,940 | 2,887,067 | 2,976,256 | 4,151,689 | | 21,077,429 |
| 24 Dracut Supply 1 - Baseload | Sch. 6, In 66 | - | - | 2,751,782 | 4,657,201 | 3,180,032 | - | - | | 10,589,015 |
| 25 Dracut Supply 2 - Swing | Sch. 6, In 67 | - | 1,584,778 | 3,727,982 | 3,922,369 | 3,133,775 | 536,760 | 91,462 | | 12,997,126 |
| 26 City Gate Delivered Supply | Sch. 6, In 68 | - | - | - | - | - | - | - | | - |
| 27 LNG Truck | Sch. 6, In 69 | - | 2,789 | 2,972 | 1,083,386 | 691,663 | 81,435 | - | | 1,862,243 |
| 28 Propane Truck | Sch. 6, In 70 | - | - | - | 691,828 | - | - | - | | 691,828 |
| 29 PNGTS | Sch. 6, In 71 | - | 57,172 | 80,978 | 91,288 | 78,565 | 67,980 | 47,842 | | 423,825 |
| 30 TGP Supply (Z4) | Sch. 6, In 72 | - | 1,680,994 | 1,851,361 | 1,880,082 | 1,711,534 | 1,764,652 | 2,074,789 | | 10,963,412 |
| 31 Subtotal Pipeline Volumes | | - | 9,584,666 | 13,177,947 | 17,162,912 | 13,198,860 | 6,990,626 | 7,869,283 | | 67,984,295 |
| 33 Storage Gas: | | | | | | | | | | |
| 34 TGP Storage | Sch. 6, In 77 | - | 4,585,608 | 4,690,065 | 5,075,164 | 5,110,373 | 6,589,118 | 3,345,413 | | 29,395,741 |
| 36 Produced Gas: | | | | | | | | | | |
| 37 LNG Vapor | Sch. 6, In 80 | - | 2,789 | 2,972 | 1,171,656 | 691,663 | 2,833 | 19,700 | | 1,891,611 |
| 38 Propane | Sch. 6, In 81 | - | - | - | 691,828 | - | - | - | | 691,828 |
| 39 Subtotal Produced Gas | | - | 2,789 | 2,972 | 1,863,484 | 691,663 | 2,833 | 19,700 | | 2,583,439 |
| 41 Less - Gas Refill: | | | | | | | | | | |
| 42 LNG Truck | Sch. 6, In 86 | - | (2,789) | (2,972) | (1,083,386) | (691,663) | (81,435) | - | | (1,862,243) |
| 43 Propane | Sch. 6, In 87 | - | - | - | (691,828) | - | - | - | | (691,828) |
| 44 TGP Storage Refill | Sch. 6, In 88 | - | (3,551,632) | - | - | - | - | (1,755,374) | | (5,307,007) |
| 45 Subtotal Refills | | - | (3,554,421) | (2,972) | (1,775,213) | (691,663) | (81,435) | (1,755,374) | | (7,861,078) |
| 47 Total Firm Sendout Volumes | Ins 31 + 34 + 39 + 45 | - | 10,618,641 | 17,868,013 | 22,326,346 | 18,309,233 | 13,501,142 | 9,479,022 | | 92,102,397 |

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| Peak Costs May 14 - Oct 14 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | May-16 | Peak Period Nov - Apr |
|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------|------------------------------|
| | | | | | | | | |
| | | | | | | | | |
| \$ 1,353,884 (469 637) | \$ 1,372,077 (374 714) | \$ 1,372,077 (374 714) | \$ 1,372,077 (374 714) | \$ 1,372,077 (374 714) | \$ 1,372,077 (374 714) | \$ 1,372,077 (374 714) | | \$ 9,586,347 (2 717 922) |
| \$ 884,247 | \$ 997,363 | \$ 997,363 | \$ 997,363 | \$ 997,363 | \$ 997,363 | \$ 997,363 | | \$ 6,868,425 |
| | | | | | | | | |
| \$ - | \$ 300,000 (81,930) | \$ 300,000 (81,930) | \$ 300,000 (81,930) | \$ 300,000 (81,930) | \$ 300,000 (81,930) | \$ - | | \$ 1,500,000 (409,650) |
| \$ - | \$ 218,070 | \$ 218,070 | \$ 218,070 | \$ 218,070 | \$ 218,070 | \$ - | | \$ 1,090,350 |
| | | | | | | | | |
| \$ 715,401 (248,159) | \$ 119,233 (32,563) | \$ 119,233 (32,563) | \$ 119,233 (32,563) | \$ 119,233 (32,563) | \$ 119,233 (32,563) | \$ 119,233 (32,563) | | \$ 1,430,802 (443,535) |
| \$ 467,242 | \$ 86,671 | \$ 86,671 | \$ 86,671 | \$ 86,671 | \$ 86,671 | \$ 86,671 | | \$ 987,267 |
| \$ 2,069,285 (717 796) | \$ 1,791,311 (489 207) | \$ 1,791,311 (489 207) | \$ 1,791,311 (489 207) | \$ 1,791,311 (489 207) | \$ 1,791,311 (489 207) | \$ 1,491,311 (407 277) | | \$ 12,517,149 (3 571 107) |
| \$ 1,351,489 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,084,034 | | \$ 8,946,041 |

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 d/b/a Liberty Utilities

3 Peak 2015 - 2016 Winter Cost of Gas Filing

4 Summary of Supply and Demand Forecast

5

6

7 For Month of:

148 D. Supply and Demand Costs by Source

149

150 Purchased Gas Demand Costs

| | | Peak Costs May 14 - Oct 14 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | May-16 | Peak Period Nov - Apr |
|-------------------------------|-------------|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|--------------------------|
| 151 Pipeline Gas Demand Costs | Ins 54 + 73 | \$ 1,353,884 | \$ 1,372,077 | \$ 1,372,077 | \$ 1,372,077 | \$ 1,372,077 | \$ 1,372,077 | \$ 1,372,077 | | \$ 9,586,347 |

| | | | | | | | | | | |
|------------------------------|-------|---|---------|---------|---------|---------|---------|---|--|-----------|
| 152 Peaking Gas Demand Costs | In 81 | - | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | - | | 1,500,000 |
|------------------------------|-------|---|---------|---------|---------|---------|---------|---|--|-----------|

| | | | | | | | | | | |
|---|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|---------------|
| 153 Subtotal Purchased Gas Demand Costs | | \$ 1,353,884 | \$ 1,672,077 | \$ 1,672,077 | \$ 1,672,077 | \$ 1,672,077 | \$ 1,672,077 | \$ 1,372,077 | | \$ 11,086,347 |
|---|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|---------------|

| | | | | | | | | | | |
|--------------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|-------------|
| 154 Less Capacity Credit | Ins 55 + 74 + 82 | (469,637) | (456,644) | (456,644) | (456,644) | (456,644) | (456,644) | (374,714) | | (3,127,572) |
|--------------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|-------------|

| | | | | | | | | | | |
|------------------------------------|--|------------|--------------|--------------|--------------|--------------|--------------|------------|--|--------------|
| 155 Net Purchased Gas Demand Costs | | \$ 884,247 | \$ 1,215,433 | \$ 1,215,433 | \$ 1,215,433 | \$ 1,215,433 | \$ 1,215,433 | \$ 997,363 | | \$ 7,958,775 |
|------------------------------------|--|------------|--------------|--------------|--------------|--------------|--------------|------------|--|--------------|

156

157 Storage Gas Demand Costs

| | | | | | | | | | | |
|--------------------|-------|------------|------------|------------|------------|------------|------------|------------|--|--------------|
| 158 Storage Demand | In 93 | \$ 715,401 | \$ 119,233 | \$ 119,233 | \$ 119,233 | \$ 119,233 | \$ 119,233 | \$ 119,233 | | \$ 1,430,802 |
|--------------------|-------|------------|------------|------------|------------|------------|------------|------------|--|--------------|

| | | | | | | | | | | |
|--------------------------|-------|-----------|----------|----------|----------|----------|----------|----------|--|-----------|
| 159 Less Capacity Credit | In 94 | (248,159) | (32,563) | (32,563) | (32,563) | (32,563) | (32,563) | (32,563) | | (443,535) |
|--------------------------|-------|-----------|----------|----------|----------|----------|----------|----------|--|-----------|

| | | | | | | | | | | |
|------------------------------|--|------------|-----------|-----------|-----------|-----------|-----------|-----------|--|------------|
| 160 Net Storage Demand Costs | | \$ 467,242 | \$ 86,671 | \$ 86,671 | \$ 86,671 | \$ 86,671 | \$ 86,671 | \$ 86,671 | | \$ 987,267 |
|------------------------------|--|------------|-----------|-----------|-----------|-----------|-----------|-----------|--|------------|

161

| | | | | | | | | | | |
|------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--------------|
| 162 Total Demand Costs | Ins 155 + 160 | \$ 1,351,489 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,084,034 | | \$ 8,946,041 |
|------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--------------|

163

164 Purchased Gas Supply

| | | | | | | | | | | |
|---------------------|--------|------|--------------|---------------|---------------|---------------|--------------|--------------|--|---------------|
| 165 Commodity Costs | In 114 | \$ - | \$ 3,044,824 | \$ 10,770,106 | \$ 21,043,350 | \$ 15,257,252 | \$ 2,723,263 | \$ 2,153,821 | | \$ 54,992,615 |
|---------------------|--------|------|--------------|---------------|---------------|---------------|--------------|--------------|--|---------------|

| | | | | | | | | | | |
|------------------------------------|--------|--|--|--|--|--|--|--|--|--|
| 166 Less Storage Inj.(TGP Storage) | In 127 | | | | | | | | | |
|------------------------------------|--------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | |
|---------------------------------|--------|--|--|--|--|--|--|--|--|--|
| 167 Less Storage Transportation | In 128 | | | | | | | | | |
|---------------------------------|--------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | |
|--------------------|--------|--|--|--|--|--|--|--|--|--|
| 168 Less LNG Truck | In 125 | | | | | | | | | |
|--------------------|--------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | |
|------------------------|--------|--|--|--|--|--|--|--|--|--|
| 169 Less Propane Truck | In 126 | | | | | | | | | |
|------------------------|--------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | |
|-------------------------------|--------|--|--|--|--|--|--|--|--|--|
| 170 Plus Transportation Costs | In 139 | | | | | | | | | |
|-------------------------------|--------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | |
|-----------------------------------|--|------|--------------|---------------|---------------|---------------|--------------|--------------|--|---------------|
| 171 Subtotal Purchased Gas Supply | | \$ - | \$ 2,070,508 | \$ 10,940,718 | \$ 19,028,290 | \$ 14,570,477 | \$ 2,705,965 | \$ 1,736,824 | | \$ 51,052,782 |
|-----------------------------------|--|------|--------------|---------------|---------------|---------------|--------------|--------------|--|---------------|

172

173 Storage Commodity Costs

| | | | | | | | | | | |
|---------------------|--------|------|------------|------------|------------|------------|--------------|------------|--|--------------|
| 174 Commodity Costs | In 117 | \$ - | \$ 859,300 | \$ 878,874 | \$ 951,038 | \$ 957,636 | \$ 1,234,739 | \$ 608,392 | | \$ 5,489,978 |
|---------------------|--------|------|------------|------------|------------|------------|--------------|------------|--|--------------|

| | | | | | | | | | | |
|--------------------------|--------|---|--------|--------|--------|--------|--------|--------|--|---------|
| 175 Transportation Costs | In 141 | - | 62,085 | 63,499 | 68,713 | 69,190 | 89,210 | 45,131 | | 397,827 |
|--------------------------|--------|---|--------|--------|--------|--------|--------|--------|--|---------|

| | | | | | | | | | | |
|--------------------------------------|--|------|------------|------------|--------------|--------------|--------------|------------|--|--------------|
| 176 Subtotal Storage Commodity Costs | | \$ - | \$ 921,384 | \$ 942,373 | \$ 1,019,751 | \$ 1,026,825 | \$ 1,323,949 | \$ 653,523 | | \$ 5,887,806 |
|--------------------------------------|--|------|------------|------------|--------------|--------------|--------------|------------|--|--------------|

177

| | | | | | | | | | | |
|----------------------------------|--------|------|----------|----------|--------------|------------|----------|-----------|--|--------------|
| 178 Produced Gas Commodity Costs | In 122 | \$ - | \$ 3,446 | \$ 3,649 | \$ 2,643,842 | \$ 857,496 | \$ 4,908 | \$ 34,135 | | \$ 3,547,477 |
|----------------------------------|--------|------|----------|----------|--------------|------------|----------|-----------|--|--------------|

179

| | | | | | | | | | | |
|------------------------------|---------------------|------|--------------|---------------|---------------|---------------|--------------|--------------|--|---------------|
| 180 Subtotal Commodity Costs | Ins 171 + 176 + 178 | \$ - | \$ 2,995,339 | \$ 11,886,740 | \$ 22,691,882 | \$ 16,454,799 | \$ 4,034,822 | \$ 2,424,482 | | \$ 60,488,065 |
|------------------------------|---------------------|------|--------------|---------------|---------------|---------------|--------------|--------------|--|---------------|

181

| | | | | | | | | | | |
|-----------------------------------|--------------|------|----------|-----------|-----------|-----------|-----------|--------|--|------------|
| 182 Hedge Contract (Savings)/Loss | Sch 7, In 32 | \$ - | \$ 2,732 | \$ 42,931 | \$ 57,724 | \$ 43,648 | \$ 28,790 | \$ 436 | | \$ 176,262 |
|-----------------------------------|--------------|------|----------|-----------|-----------|-----------|-----------|--------|--|------------|

183

| | | | | | | | | | | |
|---------------------------|---------------|------|--------------|---------------|---------------|---------------|--------------|--------------|--|---------------|
| 184 Total Commodity Costs | Ins 180 + 182 | \$ - | \$ 2,998,071 | \$ 11,929,671 | \$ 22,749,607 | \$ 16,498,447 | \$ 4,063,612 | \$ 2,424,919 | | \$ 60,664,327 |
|---------------------------|---------------|------|--------------|---------------|---------------|---------------|--------------|--------------|--|---------------|

185

| | | | | | | | | | | |
|------------------------|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--------------|
| 186 Total Demand Costs | In 99 | \$ 1,351,489 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,084,034 | | \$ 8,946,041 |
|------------------------|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--------------|

| | | | | | | | | | | |
|------------------------|--------|---|-----------|------------|------------|------------|-----------|-----------|--|------------|
| 187 Total Supply Costs | In 184 | - | 2,998,071 | 11,929,671 | 22,749,607 | 16,498,447 | 4,063,612 | 2,424,919 | | 60,664,327 |
|------------------------|--------|---|-----------|------------|------------|------------|-----------|-----------|--|------------|

188

| | | | | | | | | | | |
|----------------------------|---------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|--|---------------|
| 189 Total Direct Gas Costs | Ins 186 + 187 | \$ 1,351,489 | \$ 4,300,174 | \$ 13,231,775 | \$ 24,051,710 | \$ 17,800,551 | \$ 5,365,716 | \$ 3,508,953 | | \$ 69,610,369 |
|----------------------------|---------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|--|---------------|

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Schedule 2

1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**

REDACTED

2

3 **Peak 2015 - 2016 Winter Cost of Gas Filing**

4 **Contracts Ranked on a per Unit Cost Basis**

5

| 6 | Supplier | Contract | Contract Type | Contract Unit | Unit Dth (MDQ/ACQ) | Peak Period Cost per Unit Dth |
|---|----------|----------|---------------|---------------|--------------------|-------------------------------|
| 7 | (a) | (b) | (c) | (d) | (e) | (f) |

8

9 **Demand Costs**

| | | | | | | |
|----|---|---------------------------|----------------|-----|-----------|--|
| 10 | Granite Ridge Demand | | Peaking | MDQ | - | |
| 11 | Niagara Supply | | Supply | MDQ | 3,199 | |
| 12 | Dominion - Capacity Reservation | GSS 300076 | Storage | ACQ | 102,700 | |
| 13 | Tenn Gas Pipeline - Cap. Reservations | FS-MA 523 | Storage | ACQ | 1,560,391 | |
| 14 | National Fuel - Capacity Reservation | FSS-1 2357 | Storage | ACQ | 670,800 | |
| 15 | Tenn Gas Pipeline - Demand | FS-MA 523 | Storage | MDQ | 21,844 | |
| 16 | Dominion - Demand | GSS 300076 | Storage | MDQ | 934 | |
| 17 | National Fuel - Demand | FSS-1 2357 | Storage | MDQ | 6,098 | |
| 18 | National Fuel | FST N02358 | Transportation | MDQ | 6,098 | |
| 19 | Tenn Gas Pipeline | 42076 FTA Z6-Z6 | Transportation | MDQ | 20,000 | |
| 20 | Honeoye - Demand | SS-NY | Storage | MDQ | 1,362 | |
| 21 | Iroquois Gas Trans Service | RTS 470-01 | Transportation | MDQ | 4,047 | |
| 22 | Tenn Gas Pipeline | 2302 Z5-Z6 | Transportation | MDQ | 3,122 | |
| 23 | Tenn Gas Pipeline | 95346 Z5-Z6 | Transportation | MDQ | 4,000 | |
| 24 | Tenn Gas Pipeline (short haul) | 11234 Z5-Z6(stg) | Transportation | MDQ | 1,957 | |
| 25 | Tenn Gas Pipeline (short haul) | 11234 Z4-Z6(stg) | Transportation | MDQ | 7,082 | |
| 26 | Tenn Gas Pipeline (short haul) | 8587 Z4-Z6 | Transportation | MDQ | 3,811 | |
| 27 | Tenn Gas Pipeline (short haul) | 632 Z4-Z6 (stg) | Transportation | MDQ | 15,265 | |
| 28 | Tenn Gas Pipeline (Concord Lateral) Z6-Z6 | Firm Transportation | Transportation | MDQ | 30,000 | |
| 29 | ANE (TransCanada via Union to Iroquois) | Union Parkway to Iroquois | Transportation | MDQ | 4,047 | |
| 30 | Tenn Gas Pipeline (long haul) | 8587 Z1-Z6 | Transportation | MDQ | 14,561 | |
| 31 | Tenn Gas Pipeline (long haul) | 8587 Z0-Z6 | Transportation | MDQ | 7,035 | |
| 32 | Portland Natural Gas Trans Service | FT-1999-001 | Transportation | MDQ | 1,000 | |
| 33 | GDF Suez Liquid Demand Charge | NSB041 | Peaking | MDQ | 4,500 | |

34

35 **Supply Costs - Commodity**

| | | | | | | |
|----|----------------------------|--|----------|-----|-----------|--|
| 36 | TGP Supply (Z4) | | Pipeline | Dkt | 1,096,341 | |
| 37 | City Gate Delivered Supply | | Pipeline | Dkt | - | |
| 38 | TGP Supply (Direct) | | Pipeline | Dkt | 2,107,743 | |
| 39 | Niagara Supply | | Pipeline | Dkt | 411,194 | |
| 40 | Dawn Supply | | Pipeline | Dkt | 526,747 | |
| 41 | Dracut Supply 1 - Baseload | | Pipeline | Dkt | 1,058,902 | |
| 42 | PNGTS | | Pipeline | Dkt | 42,383 | |
| 43 | Propane Truck | | Pipeline | Dkt | 69,183 | |
| 44 | LNG Vapor (Storage) | | Produced | Dkt | 189,161 | |
| 45 | LNG Truck | | Pipeline | Dkt | 186,224 | |
| 46 | Dracut Supply 2 - Swing | | Pipeline | Dkt | 1,299,713 | |
| 47 | TGP Storage | | Storage | Dkt | 2,939,574 | |
| 48 | Propane | | Produced | Dkt | 69,183 | |

49

50 **Supply Costs - Volumetric Transportation**

| | | | | | | |
|----|----------------------------|--|----------|-----|-----------|--|
| 51 | Dracut Supply 1 - Baseload | | Pipeline | Dkt | 1,058,902 | |
| 52 | Dracut Supply 2 - Swing | | Pipeline | Dkt | 1,299,713 | |
| 53 | Niagara Supply | | Pipeline | Dkt | 411,194 | |
| 54 | Dawn Supply | | Pipeline | Dkt | 526,747 | |
| 55 | TGP Storage - Withdrawals | | Pipeline | Dkt | 2,939,574 | |
| 56 | TGP Supply (Direct) | | Pipeline | Dkt | 2,107,743 | |

Schedule 3

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 d/b/a Liberty Utilities

3 Peak 2015 2016 Winter Cost of Gas Filing

4 COG (Over)/Under Cumulative Recovery Balances and Interest Calculation

| | | Prior Period Bal | | | | | | | | | | | | | | | Peak Period | | | | | | |
|--|---|-------------------------------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|----|----|----|----|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| | | Days in Month | Ending Bal | Plus May Billings | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | May-16 | | | | | | |
| (a) | | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) | (n) | (o) | (p) | Total | | | | | | |
| Account 1920 1740 COG (Over)/Under Balance | | Interest Calculation | | | | | | | | | | | | | | | | | | | | | |
| Beginning Balance | | Account 1920-1740 1/ | \$ (4,339,198) | \$ (4,339,198) | \$ (4,606,632) | \$ (6,151,649) | \$ (6,659,021) | \$ (6,804,360) | \$ (6,626,255) | \$ (6,513,559) | \$ (9,713,689) | \$ (9,116,973) | \$ (1,052,531) | \$ 3,822,163 | \$ (340,887) | \$ (3,584,196) | \$ (4,339,198) | | | | | | |
| Fast Direct Gas Costs(Inc U/G Hedges) | | Schedule 5A | | 225,248 | 225,248 | 225,248 | 225,248 | 225,248 | 225,248 | 4,300,174 | 13,231,775 | 24,051,710 | 17,800,551 | 5,365,716 | 3,508,953 | - | 69,610,368 | | | | | | |
| Production & Storage & Misc Overhead | | | | - | - | - | - | - | - | 331,783 | 331,783 | 331,783 | 331,783 | 331,783 | 331,783 | - | 1,990,700 | | | | | | |
| Projected Revenues w/o Int | | In 52 * 59 | | - | - | - | - | - | - | (982,467) | (9,617,926) | (13,110,930) | (13,518,804) | (11,114,659) | (9,144,267) | (4,070,369) | (61,559,422) | | | | | | |
| Projected Unbilled Revenue | | | | - | - | - | - | - | - | (6,509,723) | (9,498,924) | (12,140,784) | (11,540,417) | (9,951,754) | (7,495,596) | - | (57,137,198) | | | | | | |
| Reverse Prior Month Unbilled | | | | - | - | - | - | - | - | - | 6,509,723 | 9,498,924 | 12,140,784 | 11,540,417 | 9,951,754 | 7,495,596 | 57,137,198 | | | | | | |
| Prior Period Adjustment-Unbilled | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| Add Net Adjustments | | Schedule 4 | | (480,352) | (1,755,916) | (714,964) | (352,032) | (29,229) | (94,443) | (318,253) | (333,763) | (552,246) | (342,774) | (339,351) | (390,701) | - | (5,704,023) | | | | | | |
| Gas Cost Billed | | Account 1920-1740 2/ | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| Monthly (Over)/Under Recovery | | | \$ (4,339,198) | \$ (4,594,302) | \$ (6,137,299) | \$ (6,641,364) | \$ (6,785,804) | \$ (6,608,341) | \$ (6,495,449) | \$ (9,692,045) | \$ (9,091,020) | \$ (1,038,515) | \$ 3,818,592 | \$ (345,685) | \$ (3,578,961) | \$ (158,969) | \$ (1,575) | | | | | | |
| Average Monthly Balance | | (In 12 + 21)/2 | \$ (4,466,750) | \$ (5,371,965) | \$ (6,396,507) | \$ (6,722,412) | \$ (6,706,350) | \$ (6,560,852) | \$ (6,102,802) | \$ (9,402,355) | \$ (5,077,744) | \$ 1,383,030 | \$ 1,738,239 | \$ (1,959,924) | \$ (1,871,583) | - | - | | | | | | |
| Interest Rate | | Prime Rate | | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | - | | | | | | |
| Interest Applied | | In 22 * In 24 / 365 * Days of Month | \$ (12,329) | \$ (14,350) | \$ (17,656) | \$ (18,556) | \$ (17,914) | \$ (18,110) | \$ (21,644) | \$ (25,953) | \$ (14,016) | \$ 3,571 | \$ 4,798 | \$ (5,235) | \$ - | \$ (157,395) | - | | | | | | |
| (Over)/Under Balance | | In 21 + In 26 | \$ (4,339,198) | \$ (4,606,632) | \$ (6,151,649) | \$ (6,659,021) | \$ (6,804,360) | \$ (6,626,255) | \$ (6,513,559) | \$ (9,713,689) | \$ (9,116,973) | \$ (1,052,531) | \$ 3,822,163 | \$ (340,887) | \$ (3,584,196) | \$ (158,969) | (158,969) | | | | | | |

Calculation of COG with Interest

| | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Beginning Balance | In 12 | \$ (4,339,198) | \$ (4,339,198) | \$ (4,606,632) | \$ (6,151,649) | \$ (6,659,021) | \$ (6,804,360) | \$ (6,626,255) | \$ (6,513,559) | \$ (9,722,078) | \$ (9,139,489) | \$ (1,092,708) | \$ 3,767,473 | \$ (406,351) | \$ (3,657,305) | \$ (4,339,198) |
| Fst Direct Gas Costs(Inc U/G Hedges) | In 13 | | 225,248 | 225,248 | 225,248 | 225,248 | 225,248 | 225,248 | 4,300,174 | 13,231,775 | 24,051,710 | 17,800,551 | 5,365,716 | 3,508,953 | - | 69,610,368 |
| Prod Storage & Misc Overhead | In 14 | | - | - | - | - | - | - | 331,783 | 331,783 | 331,783 | 331,783 | 331,783 | 331,783 | - | 1,990,700 |
| Projected Revenues with int. | In 52 * In 61 | | - | - | - | - | - | - | (983,562) | (9,628,644) | (13,125,541) | (13,533,899) | (11,127,044) | (9,154,457) | (4,074,905) | (61,628,022) |
| Projected Unbilled Revenue | | | - | - | - | - | - | - | (6,516,978) | (9,509,509) | (12,154,313) | (11,553,278) | (9,962,844) | (7,503,949) | - | (57,200,870) |
| Reverse Prior Month Unbilled | | | - | - | - | - | - | - | 6,516,978 | 9,509,509 | 12,154,313 | 11,553,278 | 9,962,844 | 7,503,949 | - | 57,200,870 |
| Add Net Adjustments | In 19 | | (480,352) | (1,755,916) | (714,964) | (352,032) | (29,229) | (94,443) | (318,253) | (333,763) | (552,246) | (342,774) | (339,351) | (390,701) | - | (5,704,023) |
| Gas Cost Billed | In 20 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Add Interest | In 26 | | - | - | - | - | - | - | (21,644) | (25,953) | (14,016) | 3,571 | 4,798 | (5,235) | - | (58,480) |
| (Over)/Under Balance | | \$ (4,339,198) | \$ (4,594,302) | \$ (6,137,299) | \$ (6,641,364) | \$ (6,785,804) | \$ (6,608,341) | \$ (6,495,449) | \$ (9,722,038) | \$ (9,139,411) | \$ (1,092,602) | \$ 3,767,591 | \$ (406,192) | \$ (3,657,113) | \$ (228,261) | \$ (128,654) |
| Average Monthly Balance | | \$ (4,466,750) | \$ (5,371,965) | \$ (6,396,507) | \$ (6,722,412) | \$ (6,706,350) | \$ (6,560,852) | \$ (6,117,799) | \$ (9,430,745) | \$ (5,116,046) | \$ 1,337,441 | \$ 1,680,641 | \$ (2,031,732) | \$ (1,942,783) | - | - |
| Interest Applied | In 24 * In 44 / 365 * Days of Month | (12,329) | (14,350) | (17,656) | (18,556) | (17,914) | (18,110) | (21,685) | (26,031) | (14,122) | 3,454 | 4,639 | (5,427) | - | (158,087) | - |
| (Over)/Under Balance | In 41 + In 42 + In 46 | \$ (4,339,198) | \$ (4,606,632) | \$ (6,151,649) | \$ (6,659,021) | \$ (6,804,360) | \$ (6,626,255) | \$ (6,513,559) | \$ (9,722,078) | \$ (9,139,489) | \$ (1,092,708) | \$ 3,767,473 | \$ (406,351) | \$ (3,657,305) | \$ (228,261) | (228,261) |
| Forecast Sendout Therms | Sch 1 | | | | | | | | 10,618,641 | 17,868,013 | 22,326,346 | 18,309,233 | 13,501,142 | 9,479,022 | | 92,102,397 |
| Less Forecast Billing Therm Sales | Sch 10B, In 23 Nov - May | | | | | | | | 1,368,529 | 13,397,306 | 18,262,892 | 18,831,041 | 15,482,182 | 12,737,522 | 5,669,827 | 85,749,300 |
| Less Forecast Unaccounted For | Sch 1 | | | | | | | | 165,567 | 278,600 | 348,114 | 285,479 | 210,511 | 147,798 | | 1,436,068 |
| Less Forecast Company Use | Sch 1 | | | | | | | | 16,816 | 28,296 | 35,356 | 28,995 | 21,380 | 15,011 | | 145,854 |
| Unbilled Volumes | | | | | | | | | 9,067,730 | 4,163,811 | 3,679,984 | -836,282 | -2,212,931 | -3,421,310 | -5,669,827 | 4,771,175 |
| Gross Unbilled | | | | | | | | | 9,067,730 | 13,231,541 | 16,911,525 | 16,075,243 | 13,862,312 | 10,441,003 | | 4,771,175 |
| COB w/o Interest | Sch. 3, pq. 4, In 211 col. (c) | | | | | | | | \$0.7179 | \$0.7179 | \$0.7179 | \$0.7179 | \$0.7179 | \$0.7179 | \$0.7179 | \$0.7179 |
| COG With Interest | Sch. 3 pq. 4, In 211 col. (d) | | | | | | | | \$0.7187 | \$0.7187 | \$0.7187 | \$0.7187 | \$0.7187 | \$0.7187 | \$0.7187 | \$0.7187 |

1/ Beginning Balance for Acct 1920-1740. See Tab 18, Schedule 1, page 1, line 31, April 2010 column.

2/ Gas Cost Billed Acct 1920-1740. See Tab 18, Schedule 1, page 1, line 15, May 2010 column.

| 71 | Prior Period Bal | | | | | | | | | | | | | | | | Peak Period |
|-----|---|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|-------------|
| 72 | | Apr-15 | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | May-16 | | |
| 73 | (a) | Days in Month | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | 31 | 29 | 31 | 30 | 31 | Total | |
| 74 | (b) | + May Collections | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) | (m) | (n) | (o) | (p) | |
| 75 | | | | | | | | | | | | | | | | | |
| 76 | Account 1163 1422 Working Capital (Over)/Under Balance Interest Calculation | | | | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | | | | | |
| 78 | Beginning Balance | Account 1163-1422 1/ | \$ (28,115) | \$ (28,115) | \$ (27,906) | \$ (27,694) | \$ (27,484) | \$ (27,273) | \$ (27,059) | \$ (26,847) | \$ (28,762) | \$ (24,311) | \$ (9,151) | \$ 865 | \$ (1,606) | \$ (3,674) | \$ (28,115) |
| 79 | | | | | | | | | | | | | | | | | |
| 80 | Days Lag | | | 0.0391 | 0.0391 | 0.0391 | 0.0391 | 0.0391 | 0.0391 | 0.0391 | 0.0391 | 0.0391 | 0.0391 | 0.0391 | 0.0391 | | |
| 81 | Prime Rate | | | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | | |
| 82 | Forecast Working Cap tal | In 34 * 0.091% | | 286 | 286 | 286 | 286 | 286 | 286 | 5,465 | 16,816 | 30,567 | 22,622 | 6,819 | 4,459 | - | 88,467 |
| 83 | | | | | | | | | | | | | | | | | |
| 84 | Projected Revenues w/o Int. | In 121 * In 125 | | - | - | - | - | - | - | (958) | (9,378) | (12,784) | (13,182) | (10,838) | (8,916) | (3,969) | (60,025) |
| 85 | Projected Unbilled Revenue | | | - | - | - | - | - | - | (6,347) | (9,262) | (11,838) | (11,253) | (9,704) | (7,309) | - | (55,713) |
| 86 | Reverse Prior Month Unbilled | | | - | - | - | - | - | - | 6,347 | 9,262 | 11,838 | 11,253 | 9,704 | 7,309 | - | 55,713 |
| 87 | | | | | | | | | | | | | | | | | |
| 88 | Add Net Adjustments | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 89 | Working Cap tal Billed | Account 1163-1422 2/ | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 90 | | | | | | | | | | | | | | | | | |
| 91 | Monthly (Over)/Under Recovery | | \$ (28,115) | \$ (27,829) | \$ (27,620) | \$ (27,408) | \$ (27,197) | \$ (26,987) | \$ (26,773) | \$ (28,687) | \$ (24,238) | \$ (9,105) | \$ 875 | \$ (1,605) | \$ (3,667) | \$ (335) | \$ 327 |
| 92 | | | | | | | | | | | | | | | | | |
| 93 | Average Monthly Balance | (In 78 + In 92)/2 | \$ (27,972) | \$ (27,763) | \$ (27,551) | \$ (27,340) | \$ (27,130) | \$ (26,916) | \$ (27,767) | \$ (26,500) | \$ (16,708) | \$ (4,138) | \$ (370) | \$ (2,637) | \$ (2,005) | | |
| 94 | Interest Rate | Prime Rate | | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | | |
| 95 | | | | | | | | | | | | | | | | | |
| 96 | Interest Applied | In 94 * In 96 / 365 * Days of Month | \$ (77) | \$ (74) | \$ (76) | \$ (75) | \$ (72) | \$ (74) | \$ (74) | \$ (74) | \$ (73) | \$ (46) | \$ (11) | \$ (1) | \$ (7) | \$ - | \$ (662) |
| 97 | | | | | | | | | | | | | | | | | |
| 98 | | | | | | | | | | | | | | | | | |
| 99 | (Over)/Under Balance | In 92 + In 98 | \$ (28,115) | \$ (27,906) | \$ (27,694) | \$ (27,484) | \$ (27,273) | \$ (27,059) | \$ (26,847) | \$ (28,762) | \$ (24,311) | \$ (9,151) | \$ 865 | \$ (1,606) | \$ (3,674) | \$ (335) | (335) |
| 100 | | | | | | | | | | | | | | | | | |

| | | | | |
|-----|--|-------------------|-------------------------|----------------------|
| 1 | Liberty Utilities (EnergyNorth Natural Gas) Corp. | | | |
| 2 | d/b/a Liberty Utilities | | | |
| 3 | Peak 2015 - 2016 Winter Cost of Gas Filing | | | |
| 4 | COG (Over)/Under Cumulative Recovery Balances and Interest Calculation | | | |
| 201 | Production & Storage and Misc Overhead | In 14, col. (q) | 1,990,700 | 1,990,700 |
| 202 | | | | |
| 203 | Adjustments | In 19, col. (q) | (5,704.023) | (5,704.023) |
| 204 | | | | |
| 205 | Interest Nov -Apr | In 46, col. (q) | - | \$ 69,852 |
| 206 | | | | |
| 207 | Total Gas To Be Recovered | | \$ 61,557,848 | \$ 61,627,700 |
| 208 | | | | |
| 209 | Forecast Gas Sales (Nov - Apr) | In 52, col. (q) | 85,749,300 | 85,749,300 |
| 210 | | | | |
| 211 | Preliminary COG Rate | In. 207 / In. 209 | \$0 7179 | \$0 7187 |
| 212 | | | | |
| 213 | | | | |
| | | | <u>Working Capital</u> | <u>Working</u> |
| | | | <u>Rate without</u> | <u>Capital Rate</u> |
| | | | <u>Interest</u> | <u>with Interest</u> |
| 214 | Calculation of Working Capital Rate | | | |
| 215 | (a) | (b) | (c) | (d) |
| 216 | (Over)/Under Recovery Balance | In 78, col. (q) | \$ (28,115) | \$ (28,115) |
| 217 | | | | |
| 218 | Unadjusted Working Capital Forecast | In 82, col. (q) | 88,467 | 88,467 |
| 219 | | | | |
| 220 | Adjustments without interest | In 88 col. (q) | - | - |
| 221 | | | | |
| 222 | Interest Nov -Apr | In 117, col. (q) | - | \$ 38 |
| 223 | | | | |
| 224 | Total Gas To Be Recovered | | \$ 60,352 | \$ 60,390 |
| 225 | | | | |
| 226 | Forecast Gas Sales (Nov - Apr) | In 52, col. (q) | 85,749,300 | 85,749,300 |
| 227 | | | | |
| 228 | Preliminary Working Capital COG Rate | | \$0 0007 | \$0 0007 |
| 229 | | | | |
| 230 | | | | |
| | | | <u>Bad Debt Rate</u> | Bad Debt Rate |
| | | | <u>without Interest</u> | <u>with interest</u> |
| | | | (c) | |
| 231 | Calculation of Bad Debt Rate | | | |
| 232 | (a) | (b) | | |
| 233 | (Over)/Under Recovery Balance | In 142, col. (q) | \$ 720,643 | \$ 720,643 |
| 234 | | | | |
| 235 | Unadjusted Bad Debt Forecast | In 144, col. (q) | 2,267,004 | 2,267,004 |
| 236 | | | | |
| 237 | Adjustments without interest | In 152, col. (q) | - | - |
| 238 | | | | |
| 239 | Interest Nov -Apr | In 179, col. (q) | - | \$ 3,974 |
| 240 | | | | |
| 241 | Total Gas To Be Recovered | | \$ 2,987,647 | \$ 2,991,621 |
| 242 | | | | |
| 243 | Forecast Gas Sales (Nov - Apr) | In 52, col. (q) | 85,749,300 | 85,749,300 |
| 244 | | | | |
| 245 | Preliminary Bad Debt COG Rate | | \$0 0348 | \$0 0349 |

Schedule 4

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

REDACTED

2

3 Peak 2015 - 2016 Winter Cost of Gas Filing

4 Adjustments to Gas Costs

5

| | | Prior Period | Refunds from | Broker | Inventory | Transportation | Interruptible | Off System | Capacity | Net Option | Fixed Price | Total |
|----|--------------------------|--------------|--------------|----------------|-----------|----------------|---------------|--------------|----------------|------------|----------------|----------------|
| | | Adjustments | Suppliers | Revenue | Finance | CGA Revenues | Sales Margin | Sales Margin | Release | Premiums | Option | Adjustments |
| | | (b) | (c) | (d) | Charges | (Schedule 17) | (g) | (h) | (i) | (j) | Administrative | (m) |
| 6 | Adjustments | | | | | | | | | | Costs | |
| 7 | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (m) |
| 8 | | | | | | | | | | | | |
| 9 | May-15 | \$ - | \$ - | (241,578) | \$ - | \$ - | | | | \$ - | \$ - | \$ (480,352) |
| 10 | Jun-15 | - | - | (1,226,659) | - | - | | | | - | - | (1,755,916) |
| 11 | Jul-15 1/ | - | - | (36,072) | - | - | | | | - | - | (714,964) |
| 12 | Aug-15 1/ | - | - | (46,486) | - | - | | | | - | - | (352,032) |
| 13 | Sep-15 1/ | - | - | - | - | - | | | | - | - | (29,229) |
| 14 | Oct-15 1/ | - | - | (73,766) | - | - | | | | - | - | (94,443) |
| 15 | Nov-15 1/ | - | (59,318) | (38,655) | - | 4,135 | | | | - | 49,565 | (318,253) |
| 16 | Dec-15 1/ | - | (59,492) | - | - | 5,438 | | | | - | - | (333,763) |
| 17 | Jan-16 1/ | - | (59,671) | (209,259) | - | 6,517 | | | | - | - | (552,246) |
| 18 | Feb-16 1/ | - | (59,857) | - | - | 7,134 | | | | - | - | (342,774) |
| 19 | Feb-16 1/ | - | (60,056) | - | - | 6,724 | | | | - | - | (339,351) |
| 20 | Mar-16 1/ | - | (60,297) | (45,444) | - | 5,814 | | | | - | - | (390,701) |
| 21 | | | | | | | | | | | | |
| 22 | Subtotal May 15 - Oct 15 | \$ - | \$ - | \$ (1,624,561) | \$ - | \$ - | \$ - | \$ - | \$ (1,802,375) | \$ - | \$ - | \$ (3,426,935) |
| 23 | | | | | | | | | | | | |
| 24 | Subtotal Nov 15 - Apr 16 | \$ - | \$ (358,691) | \$ (293,358) | \$ - | \$ 35,761 | \$ - | \$ - | \$ (1,710,365) | \$ - | \$ 49,565 | \$ (2,277,088) |
| 25 | | | | | | | | | | | | |
| 26 | Total Peak Period | \$ - | \$ (358,691) | \$ (1,917,919) | \$ - | \$ 35,761 | \$ - | \$ - | \$ (3,512,739) | \$ - | \$ 49,565 | \$ (5,704,023) |
| 27 | | | | | | | | | | | | |

1/ Estimates are based on prior years actual, except transportation revenue is calculated on Schedule 17.

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Schedule 5

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

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2 d/b/a Liberty Utilities

3 Peak 2015 - 2016 Winter Cost of Gas Filing

4 Demand Costs

| | | | Deferred to Peak | | | | | | | | Peak Nov-Apr Total |
|---|-----|-------------|-------------------------------------|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------|
| | (a) | Peak (b) | Reference (c) | May 15 -Oct 15 (d) | Nov-15 (e) | Dec-15 (f) | Jan-16 (g) | Feb-16 (h) | Mar-16 (i) | Apr-16 (j) | (k) |
| 11 Supply | | | | | | | | | | | |
| 12 Niagara Supply | | | Sch 5B, In 9 * Sch 5C In 9 x days | | | | | | | | |
| 13 Subtotal Supply Demand & Reservation Charges | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 Pipeline | | | | | | | | | | | |
| 16 Iroquois Gas Trans Service RTS 470-0 | | | Sch 5B, In 12 * Sch 5C In 12 x days | | | | | | | | |
| 17 Tenn Gas Pipeline 95346 Z5-Z6 | | | Sch 5B, In 13 * Sch 5C In 14 x days | | | | | | | | |
| 18 Tenn Gas Pipeline 2302 Z5-Z6 | | | Sch 5B, In 14 * Sch 5C In 16 x days | | | | | | | | |
| 19 Tenn Gas Pipeline 8587 Z0-Z6 | | | Sch 5B, In 15 * Sch 5C In 18 x days | | | | | | | | |
| 20 Tenn Gas Pipeline 8587 Z1-Z6 | | | Sch 5B, In 16 * Sch 5C In 20 x days | | | | | | | | |
| 21 Tenn Gas Pipeline 8587 Z4-Z6 | | | Sch 5B, In 17 * Sch 5C In 22 x days | | | | | | | | |
| 22 Tenn Gas Pipeline (Dracut) 42076 Z6-Z6 | | | Sch 5B, In 18 * Sch 5C In 24 x days | | | | | | | | |
| 23 Tenn Gas Pipeline (Concord Lateral) Z6-Z6 | | | Sch 5B, In 19 * Sch 5C In 26 x days | | | | | | | | |
| 24 Portland Natural Gas Trans Service | | | Sch 5B, In 20 * Sch 5C In 28 x days | | | | | | | | |
| 25 ANE (TransCanada via Union to Iroquois) | | | Sch 5B, In 21 * Sch 5C In 44 x days | | | | | | | | |
| 26 Tenn Gas Pipeline Z4-Z6 stg 632 | | peak | Sch 5B, In 22 * Sch 5C In 30 x days | | | | | | | | |
| 27 Tenn Gas Pipeline Z4-Z6 stg 11234 | | peak | Sch 5B, In 23 * Sch 5C In 32 x days | | | | | | | | |
| 28 Tenn Gas Pipeline Z5-Z6 stg 11234 | | peak | Sch 5B, In 24 * Sch 5C In 34 x days | | | | | | | | |
| 29 National Fuel FST 2358 | | peak | Sch 5B, In 25 * Sch 5C In 36 x days | | | | | | | | |
| 30 | | | | | | | | | | | |
| 31 Subtotal Pipeline Demand Charges | | | | \$ 1,353,884 | \$ 1,372,077 | \$ 1,372,077 | \$ 1,372,077 | \$ 1,372,077 | \$ 1,372,077 | \$ 1,372,077 | \$ 9,586,347 |
| 32 | | | | | | | | | | | |
| 33 Peaking Supply | | | | | | | | | | | |
| 34 Tenn Gas Pipeline (Concord Lateral) Z6-Z6 | | peak | Sch 5B, In 28 * Sch 5C In 26 x days | | | | | | | | |
| 35 Granite Ridge Demand | | peak | Sch 5B, In 29 * Sch 5C In 47 x days | | | | | | | | |
| 36 GDF Suez Demand NSB041 | | peak | Per Contract | | | | | | | | |
| 37 Subtotal Peaking Demand Charges | | | | \$ - | \$ 300,000 | \$ 300,000 | \$ 300,000 | \$ 300,000 | \$ 300,000 | \$ - | \$ 1,500,000 |
| 38 | | | | | | | | | | | |
| 39 Subtotal Supply, Pipeline & Peaking | | | In 13 + In 31 + In 37 | \$ 1,353,884 | \$ 1,672,077 | \$ 1,672,077 | \$ 1,672,077 | \$ 1,672,077 | \$ 1,672,077 | \$ 1,372,077 | \$ 11,086,347 |
| 40 | | | | | | | | | | | |
| 41 Less Transportation Capacity Credit | | | | \$ (469,637) | \$ (456,644) | \$ (456,644) | \$ (456,644) | \$ (456,644) | \$ (456,644) | \$ (374,714) | \$ (3,127,572) |
| 42 | | | | | | | | | | | |
| 43 Total Supply, Pipeline & Peaking Demand | | | | \$ 884,247 | \$ 1,215,433 | \$ 1,215,433 | \$ 1,215,433 | \$ 1,215,433 | \$ 1,215,433 | \$ 997,363 | \$ 7,958,775 |
| 44 | | | | | | | | | | | |
| 45 | | | | | | | | | | | |
| 46 Dominion - Demand | | peak | Sch 5B, In 33 * Sch 5C In 51 x days | \$ 10,437 | \$ 1,740 | \$ 1,740 | \$ 1,740 | \$ 1,740 | \$ 1,740 | \$ 1,740 | \$ 20,875 |
| 47 Dominion - Storage | | peak | Sch 5B, In 34 * Sch 5C In 52 x days | 8,935 | 1,489 | 1,489 | 1,489 | 1,489 | 1,489 | 1,489 | 17,870 |
| 48 Honeoye - Demand | | peak | Sch 5B, In 35 * Sch 5C In 55 x days | 52,466 | 8,744 | 8,744 | 8,744 | 8,744 | 8,744 | 8,744 | 104,933 |
| 49 National Fuel - Demand | | peak | Sch 5B, In 37 * Sch 5C In 57 x days | 90,833 | 15,139 | 15,139 | 15,139 | 15,139 | 15,139 | 15,139 | 181,667 |
| 50 National Fuel - Capacity | | peak | Sch 5B, In 38 * Sch 5C In 58 x days | 153,345 | 25,557 | 25,557 | 25,557 | 25,557 | 25,557 | 25,557 | 306,690 |
| 51 Tenn Gas Pipeline - Demand | | peak | Sch 5B, In 39 * Sch 5C In 61 x days | 201,839 | 33,640 | 33,640 | 33,640 | 33,640 | 33,640 | 33,640 | 403,677 |
| 52 Tenn Gas Pipeline - Capacity | | peak | Sch 5B, In 40 * Sch 5C In 62 x days | 197,546 | 32,924 | 32,924 | 32,924 | 32,924 | 32,924 | 32,924 | 395,091 |
| 53 | | | | | | | | | | | |
| 54 Subtotal Storage Demand Costs | | | | \$ 715,401 | \$ 119,233 | \$ 119,233 | \$ 119,233 | \$ 119,233 | \$ 119,233 | \$ 119,233 | \$ 1,430,802 |
| 55 | | | | | | | | | | | |
| 56 Less Transportation Capacity Credit | | | | \$ (248,159) | \$ (32,563) | \$ (32,563) | \$ (32,563) | \$ (32,563) | \$ (32,563) | \$ (32,563) | \$ (443,535) |
| 57 | | | | | | | | | | | |
| 58 Total Storage Demand Costs | | | In 54 + In 56 | \$ 467,242 | \$ 86,671 | \$ 86,671 | \$ 86,671 | \$ 86,671 | \$ 86,671 | \$ 86,671 | \$ 987,267 |
| 59 | | | | | | | | | | | |
| 60 Total Demand Charges | | | In 39 + In 54 | \$ 2,069,285 | \$ 1,791,311 | \$ 1,791,311 | \$ 1,791,311 | \$ 1,791,311 | \$ 1,791,311 | \$ 1,491,311 | \$ 12,517,149 |
| 61 | | | | | | | | | | | |
| 62 Total Transportation Capacity Credit | | | In 41 + In 56 | \$ (717,796) | \$ (489,207) | \$ (489,207) | \$ (489,207) | \$ (489,207) | \$ (489,207) | \$ (407,277) | \$ (3,571,107) |
| 63 | | | | | | | | | | | |
| 64 Total Demand Charges less Cap. Cr. | | | In 60 + In 62 | \$ 1,351,489 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,302,104 | \$ 1,084,034 | \$ 8,946,041 |
| 65 | | | | | | | | | | | |
| 66 | | | | | | | | | | | |

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Liberty Utilities (EnergyNorth Natural Gas) Corp.
d/b/a Liberty Utilities
Peak 2015 - 2016 Winter Cost of Gas Filing
Demand Volumes

| | | Peak (b) | Reference (c) | Nov-15 (d) | Dec-15 (e) | Jan-16 (f) | Feb-16 (g) | Mar-16 (h) | Apr-16 (i) |
|-----------------|---|-------------|---------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Supply | | | | | | | | | |
| | Niagara Supply | | | 3,199 | 3,199 | 3,199 | 3,199 | 3,199 | 3,199 |
| Pipeline | | | | | | | | | |
| | Iroquois Gas Trans Service | | RTS 470-01 | 4,047 | 4,047 | 4,047 | 4,047 | 4,047 | 4,047 |
| | Tenn Gas Pipeline | | 95346 Z5-Z6 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 |
| | Tenn Gas Pipeline | | 2302 Z5-Z6 | 3,122 | 3,122 | 3,122 | 3,122 | 3,122 | 3,122 |
| | Tenn Gas Pipeline (long haul) | | 8587 Z0-Z6 | 7,035 | 7,035 | 7,035 | 7,035 | 7,035 | 7,035 |
| | Tenn Gas Pipeline (long haul) | | 8587 Z1-Z6 | 14,561 | 14,561 | 14,561 | 14,561 | 14,561 | 14,561 |
| | Tenn Gas Pipeline (short haul) | | 8587 Z4-Z6 | 3,811 | 3,811 | 3,811 | 3,811 | 3,811 | 3,811 |
| | Tenn Gas Pipeline | | 42076 FTA Z6-Z6 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 |
| | Tenn Gas Pipeline (Concord Lateral) | | Firm Transportation | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 | 30,000 |
| | Portland Natural Gas Trans Service | | FT-1999-001 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| | ANE (TransCanada via Union to Iroquois) | | Union Parkway to Iroquois | 4,047 | 4,047 | 4,047 | 4,047 | 4,047 | 4,047 |
| | Tenn Gas Pipeline (short haul) | peak | 632 Z4-Z6 (stg) | 15,265 | 15,265 | 15,265 | 15,265 | 15,265 | 15,265 |
| | Tenn Gas Pipeline (short haul) | peak | 11234 Z4-Z6(stg) | 7,082 | 7,082 | 7,082 | 7,082 | 7,082 | 7,082 |
| | Tenn Gas Pipeline (short haul) | peak | 11234 Z5-Z6(stg) | 1,957 | 1,957 | 1,957 | 1,957 | 1,957 | 1,957 |
| | National Fuel | peak | FST N02358 | 6,098 | 6,098 | 6,098 | 6,098 | 6,098 | 6,098 |
| Peaking | | | | | | | | | |
| | Tenn Gas Pipeline (Concord Lateral) | peak | | 0 | 0 | 0 | 0 | 0 | 0 |
| | Granite Ridge Demand | peak | | 0 | 0 | 0 | 0 | 0 | 0 |
| | GDF Suez Liquid Demand Charge | peak | NSB041 | 4,500 | 4,500 | 4,500 | 4,500 | 4,500 | 0 |
| Storage | | | | | | | | | |
| | Dominion - Demand | peak | GSS 300076 | 934 | 934 | 934 | 934 | 934 | 934 |
| | Dominion - Capacity Reservation | peak | GSS 300076 | 102,700 | 102,700 | 102,700 | 102,700 | 102,700 | 102,700 |
| | Honeoye - Demand | peak | SS-NY | 1,362 | 1,362 | 1,362 | 1,362 | 1,362 | 1,362 |
| | Honeoye - Capacity | peak | SS-NY | 245,380 | 245,380 | 245,380 | 245,380 | 245,380 | 245,380 |
| | National Fuel - Demand | peak | FSS-1 2357 | 6,098 | 6,098 | 6,098 | 6,098 | 6,098 | 6,098 |
| | National Fuel - Capacity Reservation | peak | FSS-1 2357 | 670,800 | 670,800 | 670,800 | 670,800 | 670,800 | 670,800 |
| | Tenn Gas Pipeline - Demand | peak | FS-MA 523 | 21,844 | 21,844 | 21,844 | 21,844 | 21,844 | 21,844 |
| | Tenn Gas Pipeline - Cap. Reservations | peak | FS-MA 523 | 1,560,391 | 1,560,391 | 1,560,391 | 1,560,391 | 1,560,391 | 1,560,391 |

1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**

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2 **d/b/a Liberty Utilities**

3 **Peak 2015 - 2016 Winter Cost of Gas Filing**

4 **Demand Rates**

| | | | | Nov-15 Unit Rate | Dec-15 Unit Rate | Jan-16 Unit Rate | Feb-16 Unit Rate | Mar-16 Unit Rate | Apr-16 Unit Rate | Nov - Apr Avg Rate |
|--|--|--|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|
| | | | | 30 | 31 | 31 | 29 | 31 | 30 | 182 |

6 **Tariff Rates**

8 **Supply**

| | | | | | | | | | | | |
|----|---------------------------------|---------------------|----------------|---------------------------|----------|----------|----------|----------|----------|----------|----------|
| 11 | Pipeline | | | | | | | | | | |
| 12 | Iroquois Gas Trans Service | RTS 470-01 | \$6.5971 | First Revised Sheet No. 4 | \$0.2199 | \$0.2128 | \$0.2128 | \$0.2275 | \$0.2128 | \$0.2199 | \$0.2176 |
| 13 | | | | | | | | | | | |
| 14 | Tenn Gas Pipeline | 95346 Z5-Z6 | \$7.3963 | Seventh Rev Sheet No. 14 | \$0.2465 | \$0.2386 | \$0.2386 | \$0.2550 | \$0.2386 | \$0.2465 | \$0.2440 |
| 15 | | | | | | | | | | | |
| 16 | Tenn Gas Pipeline | 2302 Z5-Z6 | \$7.3963 | Seventh Rev Sheet No. 14 | \$0.2465 | \$0.2386 | \$0.2386 | \$0.2550 | \$0.2386 | \$0.2465 | \$0.2440 |
| 17 | | | | | | | | | | | |
| 18 | Tenn Gas Pipeline | 8587 Z0-Z6 | \$23.9536 | FT-A (Z0 - Z6) | \$0.7985 | \$0.7727 | \$0.7727 | \$0.8260 | \$0.7727 | \$0.7985 | \$0.7902 |
| 19 | | | | | | | | | | | |
| 20 | Tenn Gas Pipeline | 8587 Z1-Z6 | \$21.2648 | FT-A (Z1 - Z6) | \$0.7088 | \$0.6860 | \$0.6860 | \$0.7333 | \$0.6860 | \$0.7088 | \$0.7015 |
| 21 | | | | | | | | | | | |
| 22 | Tenn Gas Pipeline | 8587 Z4-Z6 | \$8.4181 | FT-A (Z4 - Z6) | \$0.2806 | \$0.2716 | \$0.2716 | \$0.2903 | \$0.2716 | \$0.2806 | \$0.2777 |
| 23 | | | | | | | | | | | |
| 24 | TGP Dracut | 42076 FTA Z6-Z6 | \$4.9101 | Seventh Rev Sheet No. 14 | \$0.1637 | \$0.1584 | \$0.1584 | \$0.1693 | \$0.1584 | \$0.1637 | \$0.1620 |
| 25 | | | | | | | | | | | |
| 26 | TGP Concord Lateral | Firm Transportation | \$12.2103 | Per contract | \$0.4070 | \$0.3939 | \$0.3939 | \$0.4210 | \$0.3939 | \$0.4070 | \$0.4028 |
| 27 | | | | | | | | | | | |
| 28 | Portland Natural Gas | FT-1999-001 | \$25.9843 | Part 4.1 v.5.0.0 | \$0.8661 | \$0.8382 | \$0.8382 | \$0.8960 | \$0.8382 | \$0.8661 | \$0.8572 |
| 29 | | | | | | | | | | | |
| 30 | Tenn Gas Pipeline | 632 Z4-Z6 (stg) | \$8.4181 | Seventh Rev Sheet No. 14 | \$0.2806 | \$0.2716 | \$0.2716 | \$0.2903 | \$0.2716 | \$0.2806 | \$0.2777 |
| 31 | | | | | | | | | | | |
| 32 | Tenn Gas Pipeline | 11234 Z4-Z6(stg) | \$8.4181 | Seventh Rev Sheet No. 14 | \$0.2806 | \$0.2716 | \$0.2716 | \$0.2903 | \$0.2716 | \$0.2806 | \$0.2777 |
| 33 | | | | | | | | | | | |
| 34 | Tenn Gas Pipeline | 11234 Z5-Z6(stg) | \$7.3963 | Seventh Rev Sheet No. 14 | \$0.2465 | \$0.2386 | \$0.2386 | \$0.2550 | \$0.2386 | \$0.2465 | \$0.2440 |
| 35 | | | | | | | | | | | |
| 36 | National Fuel | FST N02358 | \$3.7805 | 4.010 Version 12.0.0 Pg 1 | \$0.1260 | \$0.1220 | \$0.1220 | \$0.1304 | \$0.1220 | \$0.1260 | \$0.1247 |
| 37 | | | | | | | | | | | |
| 38 | ANE Union Gas | | \$2.6040 | | | | | | | | |
| 39 | TransCanada Pipelines Limited | | \$15.05290 | Union Parkway to Iroquois | | | | | | | |
| 40 | Delivery Pressure Demand Charge | | <u>1.0123</u> | Union Parkway to Iroquois | | | | | | | |
| 41 | Sub Total Demand Charges | | <u>18.6692</u> | | | | | | | | |
| 42 | Conversion rate GJ to MMBTU | | 1.0551 | | | | | | | | |
| 43 | Conversion rate to US\$ | | 1.2019 | updated 7/28/15 | | | | | | | |
| 44 | Demand Rate/US\$ | | \$16.3894 | | \$0.5463 | \$0.5287 | \$0.5287 | \$0.5652 | \$0.5287 | \$0.5463 | \$0.5406 |
| 45 | | | | | | | | | | | |

46 **Peaking**

| | | | | | | | | | | | |
|----|------------------------|--|--|--|--|--|--|--|--|--|--|
| 47 | Granite Ridge Demand | | | | | | | | | | |
| 48 | GDF Suez Demand NSB041 | | | | | | | | | | |
| 49 | | | | | | | | | | | |

50 **Storage**

| | | | | | | | | | | | |
|----|---------------------------|------------|----------|--------------------------|----------|----------|----------|----------|----------|----------|----------|
| 51 | Dominion - Demand | GSS 300076 | \$1.8625 | Rec No 10.30 Ver 14.0.0 | \$0.0621 | \$0.0601 | \$0.0601 | \$0.0642 | \$0.0601 | \$0.0621 | \$0.0613 |
| 52 | Dominion - Capacity | GSS 300076 | \$0.0145 | Rec No 10.30 Ver 14.0.0 | \$0.0005 | \$0.0005 | \$0.0005 | \$0.0005 | \$0.0005 | \$0.0005 | \$0.0005 |
| 53 | | | \$1.8770 | | \$0.0626 | \$0.0605 | \$0.0605 | \$0.0647 | \$0.0605 | \$0.0626 | \$0.0618 |
| 54 | | | | | | | | | | | |
| 55 | Honeoye - Demand | SS-NY | \$6.4187 | Sub 1st Rev Sheet No. 5 | \$0.2140 | \$0.2071 | \$0.2071 | \$0.2213 | \$0.2071 | \$0.2140 | \$0.2113 |
| 56 | | | | | | | | | | | |
| 57 | National Fuel - Demand | FSS-1 2357 | \$2.4826 | 4.020 Version 8.0.0 Pg 1 | \$0.0828 | \$0.0801 | \$0.0801 | \$0.0856 | \$0.0801 | \$0.0828 | \$0.0817 |
| 58 | National Fuel - Capacity | FSS-1 2357 | \$0.0381 | 4.020 Version 8.0.0 Pg 1 | \$0.0013 | \$0.0012 | \$0.0012 | \$0.0013 | \$0.0012 | \$0.0013 | \$0.0013 |
| 59 | | | \$2.5207 | | \$0.0840 | \$0.0813 | \$0.0813 | \$0.0869 | \$0.0813 | \$0.0840 | \$0.0830 |
| 60 | | | | | | | | | | | |
| 61 | Tenn Gas Pipeline | FS-MA 523 | \$1.5400 | Tenth Rev Sheet No.61 | \$0.0513 | \$0.0497 | \$0.0497 | \$0.0531 | \$0.0497 | \$0.0513 | \$0.0507 |
| 62 | Tenn Gas Pipeline - Space | FS-MA 523 | \$0.0211 | Tenth Rev Sheet No.61 | \$0.0007 | \$0.0007 | \$0.0007 | \$0.0007 | \$0.0007 | \$0.0007 | \$0.0007 |
| 63 | | | \$1.5611 | | \$0.0520 | \$0.0504 | \$0.0504 | \$0.0538 | \$0.0504 | \$0.0520 | \$0.0514 |
| 64 | | | | | | | | | | | |
| 65 | | | | | | | | | | | |

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APPLICABLE TO SETTLING PARTIES PURSUANT TO THE DECEMBER 6, 2013 STIPULATION
IN DOCKET NO. RP14-262

(FOR RATES APPLICABLE TO SEVERED PARTIES IN THE ABOVE REFERENCED DOCKETS SEE TARIFF RECORD 10.31)

RATES APPLICABLE TO RATE SCHEDULES IN
FERC GAS TARIFF, VOLUME NO. 1
(\$ per DT)

| Rate Schedule (1) | Rate Component (2) | Base Tariff Rate [1] (3) | Current Acct 858 Base (4) | Current EPCA Base (5) | TCRA [5] Surcharge (6) | EPCA [6] Surcharge (7) | Current Rate [7] (8) | FERC ACA (9) |
|-------------------------|-----------------------------------|-----------------------------------|------------------------------------|--------------------------------|------------------------------|------------------------------|----------------------------|--------------------|
| GSS [2], [4] | | | | | | | | |
| | Storage Demand | \$1.7984 | \$0.0678 | \$0.0014 | (\$0.0042) | (\$0.0009) | \$1.8625 ✓ | - |
| | Storage Capacity | \$0.0145 | - | - | - | - | \$0.0145 | - |
| | Injection Charge | \$0.0154 | - | \$0.0152 | \$0.0000 | \$0.0012 | \$0.0318 | - |
| | Withdrawal Charge | \$0.0154 | - | - | \$0.0000 | \$0.0012 | \$0.0166 | [8] |
| | GSS-TE Surcharge [3] | - | \$0.0046 | - | (\$0.0006) | - | \$0.0040 | - |
| | From Customers Balance | \$0.6163 | \$0.0146 | \$0.0003 | (\$0.0009) | \$0.0010 | \$0.6313 | [8] |
| GSS-E [2], [4] | | | | | | | | |
| | Storage Demand | \$2.2113 | \$0.0678 | \$0.0014 | (\$0.0042) | (\$0.0009) | \$2.2754 | - |
| | Storage Capacity | \$0.0369 | - | - | - | - | \$0.0369 | - |
| | Injection Charge | \$0.0154 | - | \$0.0152 | \$0.0000 | \$0.0012 | \$0.0318 | - |
| | Withdrawal Charge | \$0.0154 | - | - | \$0.0000 | \$0.0012 | \$0.0166 | [8] |
| | Authorized Overruns | \$1.0657 | \$0.0146 | \$0.0003 | (\$0.0009) | \$0.0010 | \$1.0807 | [8] |
| ISS [2] | | | | | | | | |
| | ISS Capacity | \$0.0736 | \$0.0022 | \$0.0000 | (\$0.0001) | \$0.0000 | \$0.0757 | - |
| | Injection Charge | \$0.0154 | - | \$0.0152 | \$0.0000 | \$0.0012 | \$0.0318 | - |
| | Withdrawal Charge | \$0.0154 | - | - | \$0.0000 | \$0.0012 | \$0.0166 | [8] |
| | Authorized Overrun/from Cust. Bal | \$0.6163 | \$0.0146 | \$0.0003 | (\$0.0009) | \$0.0010 | \$0.6313 | [8] |
| | Excess Injection Charge | \$0.2245 | - | \$0.0152 | \$0.0000 | \$0.0012 | \$0.2409 | - |

[1] The base tariff rate is the effective rate on file with the FERC, excluding adjustments approved by the Commission.

[2] Storage Service Fuel Retention Percentage is 1.67% plus Adders of 0.28% (RP00-632 S&A approved 9/13/01) totaling 1.95%.

[3] Applies to withdrawals made under Rate Schedule GSS, Section 5.1.G.

[4] Daily Capacity Release Rate for GSS per Dt is \$0.6147. Daily Capacity Release Rate for GSS-E per Dt is \$1.0641.

[5] 858 over/under from previous TCRA period.

[6] Electric over/under from previous EPCA period.

[7] The Current Rate shall be increased for the Annual Charge Adjustment (ACA) as applicable.

[8] The applicable ACA rate is set forth on the FERC website (<http://www.ferc.gov/industries/gas/annual-charges.asp>).

934
X18025
1739.58

Contract Summary

General Information

| | | |
|-----------------|------------------------------------|---------------|
| Contract Number | Customer | Contract Type |
| EN-11234 | Energy North Natural Gas Firm Inc. | |

Contract Dates

| | |
|------------------------------|--------------------------------|
| Effective Date (mm/dd/yy) | Termination Date (mm/dd/yy) |
| 05/01/10 | 01/01/20 |

Transaction Types and Rates

| Transaction Type | Volumetric Charge | Other Rate | Fuel % | Invoice Qty Type |
|-------------------------------|-------------------|------------|--------|------------------|
| Storage Injection | \$ 0.0000 | \$ 0.0000 | 0 | Sch Qty |
| Transaction Type | Volumetric Charge | Other Rate | Fuel % | Invoice Qty Type |
| Storage Withdrawal | \$ 0.0000 | \$ 0.0000 | 0 | Sch Qty |
| Transaction Type | Volumetric Charge | Other Rate | Fuel % | Invoice Qty Type |
| Authorized Injection Overrun | \$ 0.0000 | \$ 0.0000 | 0 | Sch Qty |
| Transaction Type | Volumetric Charge | Other Rate | Fuel % | Invoice Qty Type |
| Authorized Withdrawal Overrun | \$ 0.0000 | \$ 0.0000 | 0 | Sch Qty |

Storage and Other Rates

☐ Use Monthly Storage Rate (\$/Dth/Month)

Monthly Storage Rate Table

| | |
|----------|----------|
| From | To |
| 05/01/10 | 01/01/20 |

☐ Use Monthly Flat Fee (\$/Month)

Monthly Flat Storage Fee Table

| | | |
|----------|----------|----------|
| From | To | Rate |
| 05/01/10 | 01/01/20 | 8,744.35 |

☐ Use Daily Storage Rate (\$/Dth/Day)

| | |
|------|--------|
| Rate | Amount |
|------|--------|

0

☐ Use Injection Deliverability Rate

0

0

☐ Use Withdrawal Deliverability Rate

0

0

Iroquois Gas Transmission System, L.P.
 FERC Gas Tariff
 Second Revised Volume No. 1

First Revised Sheet No. 4

----- RATES (All in \$ Per Dth) -----

| | | Non-Settlement Recourse & Eastchester | Settlement Recourse Rates ----- ---- Applicable to Non-Eastchester/Non-Contesting Shippers 2/ ---- | | | | |
|--|----------|---|---|-----------------------|-----------------------|-----------------------|-----------------------|
| | Minimum | Initial Rates 3/ | Effective 1/1/2003 | Effective 7/1/2004 | Effective 1/1/2005 | Effective 1/1/2006 | Effective 1/1/2007 |
| RTS DEMAND: | | | | | | | |
| Zone 1 | \$0.0000 | \$7.5637 | \$7.5637 | \$6.9586 | \$6.8514 | \$6.7788 | \$6.5971 |
| Zone 2 | \$0.0000 | \$6.4976 | \$6.4976 | \$5.9778 | \$5.8857 | \$5.8233 | \$5.6673 |
| Inter-Zone | \$0.0000 | \$12.7150 | \$12.7150 | \$11.6978 | \$11.5177 | \$11.3956 | \$11.0902 |
| Zone 1 (MFV) 1/ | \$0.0000 | \$5.3607 | \$5.3607 | \$4.9318 | \$4.8559 | \$4.8044 | \$4.6757 |
| RTS COMMODITY: | | | | | | | |
| Zone 1 | \$0.0030 | \$0.0030 | \$0.0030 | \$0.0030 | \$0.0030 | \$0.0030 | \$0.0030 |
| Zone 2 | \$0.0024 | \$0.0024 | \$0.0024 | \$0.0024 | \$0.0024 | \$0.0024 | \$0.0024 |
| Inter-Zone | \$0.0054 | \$0.0054 | \$0.0054 | \$0.0054 | \$0.0054 | \$0.0054 | \$0.0054 |
| Zone 1 (MFV) 1/ | \$0.0300 | \$0.1506 | \$0.1506 | \$0.1386 | \$0.1364 | \$0.1350 | \$0.1314 |
| ITS COMMODITY: | | | | | | | |
| Zone 1 | \$0.0030 | \$0.2517 | \$0.2517 | \$0.2318 | \$0.2283 | \$0.2259 | \$0.2199 |
| Zone 2 | \$0.0024 | \$0.2160 | \$0.2160 | \$0.1989 | \$0.1959 | \$0.1938 | \$0.1887 |
| Inter-Zone | \$0.0054 | \$0.4234 | \$0.4234 | \$0.3900 | \$0.3840 | \$0.3800 | \$0.3700 |
| Zone 1 (MFV) 1/ | \$0.0300 | \$0.3268 | \$0.3268 | \$0.3007 | \$0.2960 | \$0.2929 | \$0.2850 |
| MAXIMUM VOLUMETRIC CAPACITY RELEASE RATE 4/: | | | | | | | |
| Zone 1 | \$0.0000 | \$0.2487 | \$0.2487 | \$0.2288 | \$0.2253 | \$0.2229 | \$0.2169 |
| Zone 2 | \$0.0000 | \$0.2136 | \$0.2136 | \$0.1965 | \$0.1935 | \$0.1915 | \$0.1863 |
| Inter-Zone | \$0.0000 | \$0.4180 | \$0.4180 | \$0.3846 | \$0.3787 | \$0.3746 | \$0.3646 |
| Zone 1 (MFV) 1/ | \$0.0000 | \$0.1762 | \$0.1762 | \$0.1621 | \$0.1596 | \$0.1580 | \$0.1537 |

**SEE SHEET NO. 4A FOR ADJUSTMENTS TO RATES WHICH MAY BE APPLICABLE

(Footnotes continued on Sheet 4.01)

Issued On: August 6, 2010

Effective On: July 15, 2010

SAME 1/15/13

RATES FOR PART 284 STORAGE SERVICES

| Rate Sch. (1) | Rate Component ^{1/} (2) | | Rate ^{2/} (3) |
|---------------------|---|---------------------|-------------------------------|
| ESS | Demand | (Max) | \$2.5959 |
| | | (Min) | 0.0000 |
| | Capacity | (Max) | 0.0404 |
| | | (Min) | 0.0000 |
| | Injection/ Withdrawal | (Max) | 0.0411 plus ACA ^{3/} |
| | | (Min) | 0.0000 |
| | Max. Volumetric Dem. Rate ^{4/} | | 0.0853 plus ACA ^{3/} |
| | Max. Volumetric Cap. Rate ^{5/} | | 0.0013 |
| | Storage Balance Transfer | (Max) ^{6/} | 3.8600 |
| | | (Min) ^{6/} | 0.0000 |
| ISS | Injection | (Max) | 0.9923 plus ACA ^{3/} |
| | | (Min) | 0.0000 |
| | Storage Balance Transfer | (Max) ^{6/} | 3.8600 |
| | | (Min) ^{6/} | 0.0000 |
| FSS | Demand | (Max) | 2.4826 |
| | | (Min) | 0.0000 |
| | Capacity | (Max) | 0.0381 |
| | | (Min) | 0.0000 |
| | Injection/ Withdrawal | (Max) | 0.0391 plus ACA ^{3/} |
| | | (Min) | 0.0000 |
| | Max. Volumetric Dem. Rate ^{4/} | | 0.0816 plus ACA ^{3/} |
| | Max. Volumetric Cap. Rate ^{5/} | | 0.0013 |
| | Storage Balance Transfer | (Max) ^{6/} | 3.8600 |
| | | (Min) ^{6/} | 0.0000 |

0.0391
 + 0.0014
 0.0405

- 1/ The unit of measure for each rate component is the Dth unless otherwise indicated.
- 2/ All rates exclusive of Storage Operating and LAUF Retention, where applicable. The Storage Operating and LAUF Retention for all applicable rate schedules is 0.46%.
- 3/ Pursuant to Section 19 of the General Terms and Conditions, the ACA unit charge, as revised annually and posted on the Commission's website, will be charged in addition to the specified rate.
- 4/ Assessed per dekatherm injected/withdrawn. Exclusive of Injection/Withdrawal charge.
- 5/ Assessed per dekatherm per day on storage balance.
- 6/ Rate per nomination.

0.46 on both INT & wld

RATES FOR TRANSPORTATION SERVICES

| Rate Sch. (1) | Rate Component ^{1/} (2) | | Base Rate (3) | TSCA (4) | TSCA Surch. (5) | Current Rate ^{2/} (6) |
|------------------|-------------------------------------|-------|------------------|-------------|--------------------|-----------------------------------|
| FT/FT-S | | | | | | |
| | Reservation | (Max) | \$3.7805 | - | - | \$ 3.7805 |
| | | (Min) | 0.0000 | - | - | \$0.0000 |
| | Commodity | (Max) | 0.0135 | - | - | \$0.0135 plus ACA ^{3/} |
| | | (Min) | 0.0135 | - | - | \$0.0135 plus ACA ^{3/} |
| | Overrun | (Max) | 0.1378 | - | - | \$0.1378 plus ACA ^{3/} |
| | | (Min) | 0.0135 | - | - | \$0.0135 plus ACA ^{3/} |
| | Maximum Volumetric Rate | | 0.1378 | - | - | \$0.1378 plus ACA ^{3/} |
| EFT | | | | | | |
| | Reservation | (Max) | 3.9653 | 0.0000 | 0.0000 | \$3.9653 |
| | | (Min) | 0.0000 | 0.0000 | 0.0000 | \$0.0000 |
| | Commodity | (Max) | 0.0148 | 0.0000 | 0.0000 | \$0.0148 plus ACA ^{3/} |
| | | (Min) | 0.0148 | 0.0000 | 0.0000 | \$0.0148 plus ACA ^{3/} |
| | Overrun | (Max) | 0.1452 | - | - | \$0.1452 plus ACA ^{3/} |
| | | (Min) | 0.0148 | - | - | \$0.0148 plus ACA ^{3/} |
| | Maximum Volumetric Rate | | 0.1452 | 0.0000 | 0.0000 | \$0.1452 plus ACA ^{3/} |
| FST | | | | | | |
| | Reservation | (Max) | 3.7805 | - | - | \$ 3.7805 |
| | | (Min) | 0.0000 | - | - | \$0.0000 |
| | Commodity | (Max) | 0.0135 | - | - | \$0.0135 plus ACA ^{3/} |
| | | (Min) | 0.0135 | - | - | \$0.0135 plus ACA ^{3/} |
| | Overrun | (Max) | 0.1378 | - | - | \$0.1378 plus ACA ^{3/} |
| | | (Min) | 0.0135 | - | - | \$0.0135 plus ACA ^{3/} |
| | Maximum Volumetric Rate | | 0.1378 | - | - | \$0.1378 plus ACA ^{3/} |
| IT | | | | | | |
| | Commodity | (Max) | \$0.1378 | - | - | \$ 0.1378 plus ACA ^{3/} |
| | | (Min) | 0.0000 | - | - | \$0.0000 plus ACA ^{3/} |
| | Overrun | (Max) | 0.1378 | - | - | \$0.1378 plus ACA ^{3/} |
| | | (Min) | 0.0000 | - | - | \$0.0000 plus ACA ^{3/} |

Commodity is charged on both FST & EFT
 .0135
 .0014
 .0149

- 1/ The unit of measure for each rate component is the Dth unless otherwise indicated.
 2/ All rates exclusive of Transportation Fuel and Company Use Retention and Transportation LAUF Retention. The Transportation Fuel and Company Use Retention for all applicable rate schedules is 0.54% and the Transportation LAUF Retention for all applicable rate schedules is 0.42%. Transporter may from time to time identify point pair transactions where the Transportation Fuel and Company Use Retention shall be zero ("Zero Fuel Point Pair Transactions"). Zero Fuel Point Pair Transactions will be assessed the applicable Transportation LAUF Retention.
 3/ Pursuant to Section 19 of the General Terms and Conditions, the ACA unit charge, as revised annually and posted on the Commission's website, will be charged in addition to the specified rate.

$$\text{FST Fuel} = \begin{array}{r} .54 \\ .42 \\ \hline .96 \end{array}$$

* No Fuel when wld

Statement of Transportation Rates
 (Rates per DTH)

| Rate Schedule | Rate Component | Base Rate | ACA Unit Charge 1/ |
|---------------|------------------------------------|-----------|--------------------|
| FT | Recourse Reservation Rate | | |
| | -- Maximum | \$25.9843 | ----- |
| | -- Minimum | \$00.0000 | ----- |
| | Seasonal Recourse Reservation Rate | | |
| | -- Maximum | \$49.3701 | ----- |
| | -- Minimum | \$00.0000 | ----- |
| FT-FLEX | Recourse Usage Rate | | |
| | -- Maximum | \$00.0000 | 2/ |
| | -- Minimum | \$00.0000 | 2/ |
| | Recourse Reservation Rate | | |
| | --Maximum | \$17.4406 | ----- |
| | --Minimum | \$00.0000 | ----- |
| | Recourse Usage Rate | | |
| | --Maximum | \$00.2809 | 2/ |
| | --Minimum | \$00.0000 | 2/ |

The following adjustment applies to all Rate Schedules above:

MEASUREMENT VARIANCE:

| | |
|---------|----------------|
| Minimum | down to -1.00% |
| Maximum | up to +1.00% |

1/ ACA assessed where applicable under Section 154.402 of the Commission's regulations and will be charged pursuant to Section 6.18 of the General Terms and Conditions at such time that initial and successive ACA assessments are made.

2/ The currently effective ACA unit charge as published on the Commission's website (www.ferc.gov) is incorporated herein by reference.

Rates get updated in April

Tennessee Gas Pipeline Company, L.L.C.
FERC NGA Gas Tariff
Sixth Revised Volume No. 1

Seventh Revised Sheet No. 14
Superseding
Sixth Revised Sheet No. 14

RATES PER DEKATHERM

FIRM TRANSPORTATION RATES

RATE SCHEDULE FOR FT-A

| Base Reservation Rates | | DELIVERY ZONE | | | | | | | |
|------------------------|------|---------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| RECEIPT | ZONE | 0 | L | 1 | 2 | 3 | 4 | 5 | 6 |
| | 0 | \$5.7125 | | \$11.9375 | \$16.0575 | \$16.3417 | \$17.9562 | \$19.0597 | \$23.9133 |
| | L | | \$5.0714 | | | | | | |
| | 1 | \$8.5997 | | \$8.2435 | \$10.9704 | \$15.5407 | \$15.3052 | \$17.2607 | \$21.2245 |
| | 2 | \$16.0576 | | \$10.9045 | \$5.6715 | \$5.3018 | \$6.7838 | \$9.3303 | \$12.0443 |
| | 3 | \$16.3417 | | \$8.6375 | \$5.7173 | \$4.1246 | \$6.3358 | \$11.4587 | \$13.2409 |
| | 4 | \$20.7484 | | \$19.1282 | \$7.2895 | \$11.0779 | \$5.4225 | \$5.8643 | \$8.3778 |
| | 5 | \$24.7395 | | \$17.3840 | \$7.6466 | \$9.2524 | \$6.0239 | \$5.6505 | \$7.3560 |
| | 6 | \$28.6189 | | \$19.9668 | \$13.7419 | \$15.1387 | \$10.6934 | \$5.6256 | \$4.8698 |

| Daily Base Reservation Rate 1/ | | DELIVERY ZONE | | | | | | | |
|--------------------------------|------|---------------|----------|----------|----------|----------|----------|----------|----------|
| RECEIPT | ZONE | 0 | L | 1 | 2 | 3 | 4 | 5 | 6 |
| | 0 | \$0.1879 | | \$0.3925 | \$0.5279 | \$0.5373 | \$0.5903 | \$0.6266 | \$0.7862 |
| | L | | \$0.1668 | | | | | | |
| | 1 | \$0.2827 | | \$0.2710 | \$0.3607 | \$0.5109 | \$0.5032 | \$0.5675 | \$0.6977 |
| | 2 | \$0.5279 | | \$0.3585 | \$0.1865 | \$0.1743 | \$0.2230 | \$0.3068 | \$0.3960 |
| | 3 | \$0.5373 | | \$0.2840 | \$0.1880 | \$0.1356 | \$0.2083 | \$0.3768 | \$0.4353 |
| | 4 | \$0.6821 | | \$0.6289 | \$0.2396 | \$0.3642 | \$0.1782 | \$0.1928 | \$0.2754 |
| | 5 | \$0.8133 | | \$0.5716 | \$0.2513 | \$0.3042 | \$0.1981 | \$0.1857 | \$0.2419 |
| | 6 | \$0.9409 | | \$0.6564 | \$0.4518 | \$0.4977 | \$0.3515 | \$0.1849 | \$0.1601 |

| Maximum Reservation Rates 2 /, 3 / | | DELIVERY ZONE | | | | | | | |
|------------------------------------|------|---------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| RECEIPT | ZONE | 0 | L | 1 | 2 | 3 | 4 | 5 | 6 |
| | 0 | \$5.7528 | | \$11.9778 | \$16.0978 | \$16.3820 | \$17.9965 | \$19.1000 | \$23.9536 |
| | L | | \$5.1117 | | | | | | |
| | 1 | \$8.6400 | | \$8.2838 | \$11.0107 | \$15.5810 | \$15.3455 | \$17.3010 | \$21.2648 |
| | 2 | \$16.0979 | | \$10.9448 | \$5.7118 | \$5.3421 | \$6.8241 | \$9.3706 | \$12.0846 |
| | 3 | \$16.3820 | | \$8.6778 | \$5.7576 | \$4.1649 | \$6.3761 | \$11.4990 | \$13.2812 |
| | 4 | \$20.7887 | | \$19.1685 | \$7.3298 | \$11.1182 | \$5.4628 | \$5.9046 | \$8.4181 |
| | 5 | \$24.7798 | | \$17.4243 | \$7.6869 | \$9.2927 | \$6.0642 | \$5.6908 | \$7.3963 |
| | 6 | \$28.6592 | | \$20.0071 | \$13.7822 | \$15.1790 | \$10.7337 | \$5.6659 | \$4.9101 |

Notes:

- 1/ Applicable to demand charge credits and secondary points under discounted rate agreements.
- 2/ Includes a per Dth charge for the PCB Surcharge Adjustment per Article XXXII of the General Terms and Conditions of \$0.0000.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0403.

Flat rate across all zones

Proline Safety/Green Hours GAs

Issued: September 30, 2014
Effective: November 1, 2014

Docket No. RP14-1306-000
Accepted: October 30, 2014

RATES PER DEKATHERM

COMMODITY RATES
 RATE SCHEDULE FOR FT-A

Base Commodity Rates

| RECEIPT ZONE | DELIVERY ZONE | | | | | | | |
|-----------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| | 0 | L | 1 | 2 | 3 | 4 | 5 | 6 |
| 0 | \$0.0032 | | \$0.0115 | \$0.0177 | \$0.0219 | \$0.2751 | \$0.2625 | \$0.3124 |
| L | | \$0.0012 | | | | | | |
| 1 | \$0.0042 | | \$0.0081 | \$0.0147 | \$0.0179 | \$0.2339 | \$0.2385 | \$0.2723 |
| 2 | \$0.0167 | | \$0.0087 | \$0.0012 | \$0.0028 | \$0.0757 | \$0.1214 | \$0.1345 |
| 3 | \$0.0207 | | \$0.0169 | \$0.0026 | \$0.0002 | \$0.1012 | \$0.1400 | \$0.1528 |
| 4 | \$0.0250 | | \$0.0205 | \$0.0087 | \$0.0105 | \$0.0468 | \$0.0662 | \$0.1073 |
| 5 | \$0.0284 | | \$0.0256 | \$0.0100 | \$0.0118 | \$0.0659 | \$0.0653 | \$0.0811 |
| 6 | \$0.0346 | | \$0.0300 | \$0.0143 | \$0.0163 | \$0.1014 | \$0.0549 | \$0.0334 |

Minimum
 Commodity Rates 1/, 2/

| RECEIPT ZONE | DELIVERY ZONE | | | | | | | |
|-----------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| | 0 | L | 1 | 2 | 3 | 4 | 5 | 6 |
| 0 | \$0.0032 | | \$0.0115 | \$0.0177 | \$0.0219 | \$0.0250 | \$0.0284 | \$0.0346 |
| L | | \$0.0012 | | | | | | |
| 1 | \$0.0042 | | \$0.0081 | \$0.0147 | \$0.0179 | \$0.0210 | \$0.0256 | \$0.0300 |
| 2 | \$0.0167 | | \$0.0087 | \$0.0012 | \$0.0028 | \$0.0056 | \$0.0100 | \$0.0143 |
| 3 | \$0.0207 | | \$0.0169 | \$0.0026 | \$0.0002 | \$0.0081 | \$0.0118 | \$0.0163 |
| 4 | \$0.0250 | | \$0.0205 | \$0.0087 | \$0.0105 | \$0.0028 | \$0.0046 | \$0.0092 |
| 5 | \$0.0284 | | \$0.0256 | \$0.0100 | \$0.0118 | \$0.0046 | \$0.0046 | \$0.0066 |
| 6 | \$0.0346 | | \$0.0300 | \$0.0143 | \$0.0163 | \$0.0086 | \$0.0041 | \$0.0020 |

Maximum
 Commodity Rates 1/, 2/, 3/

| RECEIPT ZONE | DELIVERY ZONE | | | | | | | |
|-----------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| | 0 | L | 1 | 2 | 3 | 4 | 5 | 6 |
| 0 | \$0.0047 | | \$0.0130 | \$0.0192 | \$0.0234 | \$0.2766 | \$0.2640 | \$0.3139 |
| L | | \$0.0027 | | | | | | |
| 1 | \$0.0057 | | \$0.0096 | \$0.0162 | \$0.0194 | \$0.2354 | \$0.2400 | \$0.2738 |
| 2 | \$0.0182 | | \$0.0102 | \$0.0027 | \$0.0043 | \$0.0772 | \$0.1229 | \$0.1360 |
| 3 | \$0.0222 | | \$0.0184 | \$0.0041 | \$0.0017 | \$0.1027 | \$0.1415 | \$0.1543 |
| 4 | \$0.0265 | | \$0.0220 | \$0.0102 | \$0.0120 | \$0.0483 | \$0.0677 | \$0.1088 |
| 5 | \$0.0299 | | \$0.0271 | \$0.0115 | \$0.0133 | \$0.0674 | \$0.0668 | \$0.0826 |
| 6 | \$0.0361 | | \$0.0315 | \$0.0158 | \$0.0178 | \$0.1029 | \$0.0564 | \$0.0349 |

Notes:

- 1/ Rates stated above exclude the ACA Surcharge as revised annually and posted on the FERC website at <http://www.ferc.gov> on the Annual Charges page of the Natural Gas section. The ACA Surcharge is incorporated by reference into Transporter's Tariff and shall apply to all transportation under this Rate Schedule as provided in Article XXIV of the General Terms and Conditions.
- 2/ The applicable F&LR's and EPCR's, determined pursuant to Article XXXVII of the General Terms and Conditions, are listed on Sheet No. 32.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0015.

* Flat across all zones

RATES PER DEKATHERM

| Rate Schedule and Rate | FIRM STORAGE SERVICE RATE SCHEDULE FS | | | |
|--|--|--------------------|-------------|----------|
| | Base Tariff Rate | Max Tariff Rate | F&LR 2/, 3/ | EPCR 2/ |
| ===== | | | | |
| FIRM STORAGE SERVICE (FS) - PRODUCTION AREA | | | | |
| ===== | | | | |
| Deliverability Rate | \$2.8100 | \$2.8100 1/ | | |
| Space Rate | \$0.0286 | \$0.0286 1/ | | |
| Injection Rate | \$0.0073 | \$0.0073 | 0.80% | \$0.0000 |
| Withdrawal Rate | \$0.0073 | \$0.0073 | | |
| Overrun Rate | \$0.3372 | \$0.3372 1/ | | |
| | | | | |
| FIRM STORAGE SERVICE (FS) - MARKET AREA | | | | |
| ===== | | | | |
| Deliverability Rate | \$1.5400 | \$1.5400 1/ | | |
| Space Rate | \$0.0211 | \$0.0211 1/ | | |
| Injection Rate | \$0.0087 | \$0.0087 | 0.80% | \$0.0000 |
| Withdrawal Rate | \$0.0087 | \$0.0087 | | |
| Overrun Rate | \$0.1848 | \$0.1848 1/ | | |

- 1/ Includes a per Dth charge for the PCB Surcharge Adjustment per Article XXXII of the General Terms and Conditions of \$0.000.
- 2/ The F&LR's and EPCR's determined pursuant to Article XXXVII of the General Terms and Conditions.
- 3/ The applicable F&LR pursuant to Article XXXVII of the General Terms and Conditions, associated with Losses is equal to 0.01%.

*No fuel charged on who
 Fuel is charged on INS*

*NO PCA ON INS OR WHO
 NO EPCR, NO B/GHG*

FUEL AND EPCR

F&LR 1/, 2/, 3/, 4/

| RECEIPT ZONE | DELIVERY ZONE | | | | | | | |
|-----------------|---------------|-------|-------|-------|-------|-------|-------|-------|
| | 0 | L | 1 | 2 | 3 | 4 | 5 | 6 |
| 0 | 0.48% | | 1.05% | 1.46% | 1.75% | 2.05% | 2.29% | 2.68% |
| L | | 0.35% | | | | | | |
| 1 | 0.55% | | 0.82% | 1.26% | 1.48% | 1.77% | 2.09% | 2.36% |
| 2 | 1.46% | | 0.86% | 0.34% | 0.46% | 0.67% | 0.99% | 1.26% |
| 3 | 1.75% | | 1.48% | 0.46% | 0.28% | 0.85% | 1.12% | 1.41% |
| 4 | 2.05% | | 1.65% | 0.86% | 0.98% | 0.47% | 0.60% | 0.88% |
| 5 | 2.33% | | 2.09% | 0.99% | 1.13% | 0.60% | 0.59% | 0.70% |
| 6 | 2.74% | | 2.36% | 1.26% | 1.41% | 0.84% | 0.52% | 0.37% |

EPCR 3/, 4/

| RECEIPT ZONE | DELIVERY ZONE | | | | | | | |
|-----------------|---------------|----------|----------|----------|----------|----------|----------|----------|
| | 0 | L | 1 | 2 | 3 | 4 | 5 | 6 |
| 0 | \$0.0049 | | \$0.0189 | \$0.0292 | \$0.0363 | \$0.0439 | \$0.0499 | \$0.0599 |
| L | | \$0.0016 | | | | | | |
| 1 | \$0.0066 | | \$0.0132 | \$0.0242 | \$0.0296 | \$0.0368 | \$0.0451 | \$0.0518 |
| 2 | \$0.0292 | | \$0.0142 | \$0.0015 | \$0.0043 | \$0.0095 | \$0.0174 | \$0.0238 |
| 3 | \$0.0363 | | \$0.0296 | \$0.0043 | \$0.0000 | \$0.0139 | \$0.0206 | \$0.0275 |
| 4 | \$0.0439 | | \$0.0340 | \$0.0141 | \$0.0172 | \$0.0045 | \$0.0079 | \$0.0148 |
| 5 | \$0.0499 | | \$0.0451 | \$0.0174 | \$0.0206 | \$0.0078 | \$0.0077 | \$0.0103 |
| 6 | \$0.0599 | | \$0.0518 | \$0.0238 | \$0.0275 | \$0.0138 | \$0.0058 | \$0.0021 |

- 1/ Included in the above F&LR is the Losses component of the F&LR equal to 0.26%.
- 2/ For service that is rendered entirely by displacement and for gas scheduled and allocated for receipt at the Dracut, Massachusetts receipt point, Shipper shall render only the quantity of gas associated with Losses of 0.26%.
- 3/ The F&LR's and EPCR's listed above are applicable to FT-A, FT-BH, FT-G, FT-GS, NET, NET-284 and IT.
- 4/ The F&LR's and EPCR's determined pursuant to Article XXXVII of the General Terms and Conditions.

Final Mainline Transportation Tolls Effective July 1, 2015 and
Final Abandonment Surcharges Effective January 1, 2015

Storage Transportation Service

| Line No | Particulars | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|---------|------------------------|----------------------------|--------------------------|-------------------------------------|--|
| (a) | (b) | (c) | (d) | (e) | |
| 1 | Centram MDA | 5.23197 | 0.17201 | 0.25380 | 0.0083 |
| 2 | Union WDA | 39.71839 | 1.30581 | 2.29401 | 0.0754 |
| 3 | Union NDA | 16.92748 | 0.55652 | 0.85092 | 0.0280 |
| 4 | Union EDA | 11.84212 | 0.38933 | 0.52893 | 0.0174 |
| 5 | KPUC EDA | 11.39043 | 0.37448 | 0.50032 | 0.0164 |
| 6 | GMIT EDA | 19.47488 | 0.64027 | 1.01224 | 0.0333 |
| 7 | Enbridge CDA | 5.88532 | 0.19349 | 0.15176 | 0.0050 |
| 8 | Enbridge CDA (Amended) | 6.05839 | 0.19918 | 0.16269 | 0.0053 |
| 9 | Enbridge EDA | 15.16514 | 0.49858 | 0.73933 | 0.0243 |
| 10 | Cornwall | 15.38840 | 0.50592 | 0.75348 | 0.0248 |
| 11 | Phillipsburg | 19.52568 | 0.64194 | 1.01543 | 0.0334 |

Firm Transportation - Short Notice

| Line No | Particulars | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|---------|--|----------------------------|--------------------------|-------------------------------------|--|
| (a) | (b) | (c) | (d) | (e) | |
| 12 | Kirkwall to Thorold CDA | 6.98093 | 0.22951 | 0.18094 | 0.0059 |
| 13 | Union Parkway Belt to Goreway CDA | 5.19730 | 0.17087 | 0.07829 | 0.0026 |
| 14 | Union Parkway Belt to Victoria Square #2 CDA | 6.07695 | 0.19979 | 0.13244 | 0.0044 |
| 15 | Union Parkway Belt to Schomberg #2 CDA | 6.13839 | 0.20181 | 0.12891 | 0.0042 |

Enhanced Market Balancing Service

| Line No | Particulars | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|---------|---------------------------------|----------------------------|--------------------------|-------------------------------------|--|
| (a) | (b) | (c) | (d) | (e) | |
| 16 | Union Parkway Belt to Union EDA | 13.02633 | 0.42826 | 0.52893 | 0.0174 |

Delivery Pressure

| Line No | Particulars | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) |
|---------|--------------------------------|----------------------------|--------------------------|
| (a) | (b) | (c) | |
| 17 | Average Delivery Pressure Toll | 1.01227 | 0.03328 |

Note: Delivery Pressure toll applies to the following locations: Emerson 1, Emerson 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa and East Hereford.
The Daily Equivalent Toll is only applicable to STS Injections, IT, Diversions, STFT and SSS.

Union Dawn Receipt Point Surcharge

| Line No | Particulars | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) |
|---------|------------------------------------|----------------------------|--------------------------|
| (a) | (b) | (c) | |
| 18 | Union Dawn Receipt Point Surcharge | 0.10724 | 0.00353 |

Short Notice Balancing (SNB) Service

| Line No | Particulars | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) |
|---------|-------------|----------------------------|--------------------------|
| (a) | (b) | (c) | |
| 19 | SNB Toll | | |

Note: This SNB Toll is a representative toll for the Eastern Region. 3.42005 0.1124

Energy Deficient Gas Allowance (EDGA) Service

| Line No | Particulars | Capacity Charge (\$/GJ/D) |
|---------|-----------------|---------------------------|
| (a) | (b) | |
| 20 | Western Section | 1.52481 |
| 21 | Eastern Section | 0.41865 |

Note: The EDGA Service capacity charge for the Western Section is the effective Empress to North Bay Junction FT Toll and the capacity charge for the Eastern Section is the effective Parkway to North Bay Junction FT Toll.
The EDGA Service fuel charge for the Western Section includes the effective Empress to North Bay Junction monthly fuel ratio and the fuel charge for the Eastern Section includes the effective Parkway to North Bay Junction monthly fuel ratio.

| Line No. | Receipt Point | Delivery Point | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|--------------------|------------------------|-----------------------|---|-------------------------------------|--|
| 1 | Union NCDA | Union Parkway Belt | - | 0.2792 | - | 0.0104 |
| 2 | Union NCDA | Union CDA (Amended) | - | 0.3277 | - | 0.0135 |
| 3 | Union NCDA | Union ECDA | - | 0.2883 | - | 0.0110 |
| 4 | Union NCDA | Enbridge Parkway CDA | - | 0.2792 | - | 0.0104 |
| 5 | Union NCDA | Enbridge CDA (Amended) | - | 0.2737 | - | 0.0101 |
| 6 | Union NDA | Empress | - | 1.4286 | - | 0.1224 |
| 7 | Union NDA | TransGas SSDA | - | 1.1879 | - | 0.1005 |
| 8 | Union NDA | Centram SSDA | - | 1.0893 | - | 0.0916 |
| 9 | Union NDA | Centram MDA | - | 0.9409 | - | 0.0781 |
| 10 | Union NDA | Centrat MDA | - | 0.8727 | - | 0.0719 |
| 11 | Union NDA | Union WDA | - | 0.6155 | - | 0.0486 |
| 12 | Union NDA | Nipigon WDA | - | 0.5101 | - | 0.0390 |
| 13 | Union NDA | Union NDA | - | 0.0927 | - | 0.0012 |
| 14 | Union NDA | Calstock NDA | - | 0.3266 | - | 0.0224 |
| 15 | Union NDA | Tunis NDA | - | 0.1989 | - | 0.0108 |
| 16 | Union NDA | GMIT NDA | - | 0.1848 | - | 0.0095 |
| 17 | Union NDA | Union SSMMDA | - | 0.8518 | - | 0.0700 |
| 18 | Union NDA | Union NCDA | - | 0.3072 | - | 0.0187 |
| 19 | Union NDA | Union CDA | - | 0.4349 | - | 0.0295 |
| 20 | Union NDA | Enbridge CDA | - | 0.4132 | - | 0.0277 |
| 21 | Union NDA | Union EDA | - | 0.4902 | - | 0.0342 |
| 22 | Union NDA | Enbridge EDA | - | 0.4480 | - | 0.0306 |
| 23 | Union NDA | KPUC EDA | - | 0.5277 | - | 0.0373 |
| 24 | Union NDA | GMIT EDA | - | 0.5801 | - | 0.0418 |
| 25 | Union NDA | Enbridge SWDA | - | 0.5522 | - | 0.0394 |
| 26 | Union NDA | Union SWDA | - | 0.5543 | - | 0.0396 |
| 27 | Union NDA | Chippawa | - | 0.4975 | - | 0.0348 |
| 28 | Union NDA | Cornwall | - | 0.4798 | - | 0.0333 |
| 29 | Union NDA | East Hereford | - | 0.6919 | - | 0.0512 |
| 30 | Union NDA | Emerson 1 | - | 0.9514 | - | 0.0791 |
| 31 | Union NDA | Emerson 2 | - | 0.9514 | - | 0.0791 |
| 32 | Union NDA | Iroquois | - | 0.4600 | - | 0.0316 |
| 33 | Union NDA | Kirkwall | - | 0.4398 | - | 0.0299 |
| 34 | Union NDA | Napierville | - | 0.5713 | - | 0.0410 |
| 35 | Union NDA | Niagara Falls | - | 0.4961 | - | 0.0347 |
| 36 | Union NDA | North Bay Junction | - | 0.1893 | - | 0.0099 |
| 37 | Union NDA | Philipsburg | - | 0.5817 | - | 0.0419 |
| 38 | Union NDA | Spruce | - | 0.8727 | - | 0.0719 |
| 39 | Union NDA | St. Clair | - | 0.5274 | - | 0.0406 |
| 40 | Union NDA | Welwyn | - | 1.0893 | - | 0.0916 |
| 41 | Union NDA | Dawn Export | - | 0.5522 | - | 0.0394 |
| 42 | Union NDA | Union Parkway Belt | - | 0.4170 | - | 0.0280 |
| 43 | Union NDA | Union CDA (Amended) | - | 0.4534 | - | 0.0311 |
| 44 | Union NDA | Union ECDA | - | 0.4238 | - | 0.0286 |
| 45 | Union NDA | Enbridge Parkway CDA | - | 0.4170 | - | 0.0280 |
| 46 | Union NDA | Enbridge CDA (Amended) | - | 0.4128 | - | 0.0276 |
| 47 | Union Parkway Belt | Empress | 72.71500 | 2.3906 | 4.38333 | 0.1441 |
| 48 | Union Parkway Belt | TransGas SSDA | 62.22550 | 2.0458 | 3.71915 | 0.1223 |
| 49 | Union Parkway Belt | Centram SSDA | 57.92793 | 1.9045 | 3.44704 | 0.1133 |
| 50 | Union Parkway Belt | Centram MDA | 51.42698 | 1.6908 | 3.03541 | 0.0998 |
| 51 | Union Parkway Belt | Centrat MDA | 50.92176 | 1.6741 | 3.00341 | 0.0987 |
| 52 | Union Parkway Belt | Union WDA | 39.71839 | 1.3058 | 2.29401 | 0.0754 |
| 53 | Union Parkway Belt | Nipigon WDA | 35.11878 | 1.1546 | 2.00276 | 0.0658 |
| 54 | Union Parkway Belt | Union NDA | 16.92748 | 0.5565 | 0.85092 | 0.0280 |
| 55 | Union Parkway Belt | Calstock NDA | 27.12102 | 0.8917 | 1.49639 | 0.0492 |
| 56 | Union Parkway Belt | Tunis NDA | 20.82538 | 0.6847 | 1.09773 | 0.0361 |
| 57 | Union Parkway Belt | GMIT NDA | 16.14638 | 0.5308 | 0.80147 | 0.0263 |
| 58 | Union Parkway Belt | Union SSMMDA | 24.24117 | 0.7970 | 1.31401 | 0.0432 |
| 59 | Union Parkway Belt | Union NCDA | 8.49264 | 0.2792 | 0.31683 | 0.0104 |
| 60 | Union Parkway Belt | Union CDA | 4.76720 | 0.1567 | 0.08094 | 0.0027 |
| 61 | Union Parkway Belt | Enbridge CDA | 5.88532 | 0.1935 | 0.15176 | 0.0050 |
| 62 | Union Parkway Belt | Union EDA | 11.84212 | 0.3893 | 0.52893 | 0.0174 |
| 63 | Union Parkway Belt | Enbridge EDA | 15.16514 | 0.4986 | 0.73933 | 0.0243 |
| 64 | Union Parkway Belt | KPUC EDA | 11.39043 | 0.3745 | 0.50032 | 0.0164 |
| 65 | Union Parkway Belt | GMIT EDA | 19.47488 | 0.6403 | 1.01224 | 0.0333 |
| 66 | Union Parkway Belt | Enbridge SWDA | 9.52802 | 0.3133 | 0.38239 | 0.0126 |
| 67 | Union Parkway Belt | Union SWDA | 9.61501 | 0.3161 | 0.38790 | 0.0128 |
| 68 | Union Parkway Belt | Chippawa | 7.30852 | 0.2403 | 0.24188 | 0.0080 |
| 69 | Union Parkway Belt | Cornwall | 15.38840 | 0.5059 | 0.75348 | 0.0248 |
| 70 | Union Parkway Belt | East Hereford | 24.00088 | 0.7891 | 1.29882 | 0.0427 |
| 71 | Union Parkway Belt | Emerson 1 | 47.97256 | 1.5772 | 2.81666 | 0.0926 |
| 72 | Union Parkway Belt | Emerson 2 | 47.97256 | 1.5772 | 2.81666 | 0.0926 |
| 73 | Union Parkway Belt | Iroquois | 14.36427 | 0.4723 | 0.68863 | 0.0226 |
| 74 | Union Parkway Belt | Kirkwall | 4.96613 | 0.1633 | 0.09354 | 0.0031 |
| 75 | Union Parkway Belt | Napierville | 19.10349 | 0.6281 | 0.98870 | 0.0325 |
| 76 | Union Parkway Belt | Niagara Falls | 7.25103 | 0.2384 | 0.23822 | 0.0078 |



TRANSPORTATION RATES

(A) Applicability

The charges under this schedule shall be applicable to a Shipper who enters into a Transportation Service Contract with Union.

Applicable Points

Dawn as a receipt point: Dawn (TCPL), Dawn (Facilities), Dawn (Tecumseh), Dawn (Vector) and Dawn (TSLE).

Dawn as a delivery point: Dawn (Facilities).

(B) Services

Transportation Service under this rate schedule shall be for transportation on Union's Dawn - Trafalgar facilities.

(C) Rates

The identified rates represent maximum prices for service. These rates may change periodically. Multi-year prices may also be negotiated, which may be higher than the identified rates.

| | Monthly Demand Charge (applied to daily contract demand) <u>Rate/GJ</u> | Commodity and Fuel Charges Fuel Ratio % <u>AND</u> Commodity Charge <u>Rate/GJ</u> |
|--|---|---|
| <u>Firm Transportation (1)</u> | | |
| Dawn to Parkway | \$2.604 | Monthly fuel rates and ratios shall be in accordance with schedule "C". |
| Dawn to Kirkwall | \$2.193 | |
| Kirkwall to Parkway | \$0.411 | |
| Parkway to Dawn | n/a | |
| <u>M12-X Firm Transportation</u> | | |
| Between Dawn, Kirkwall and Parkway | \$3.244 | Monthly fuel rates and ratios shall be in accordance with schedule "C". |
| <u>Limited Firm/Interruptible Transportation (1)</u> | | |
| Dawn to Parkway – Maximum | \$6.250 | Monthly fuel rates and ratios shall be in accordance with schedule "C". |
| Dawn to Kirkwall – Maximum | \$6.250 | |
| Parkway (TCPL) to Parkway (Cons) (2) | | 0.155% |

Authorized Overrun (3)

Authorized overrun rates will be payable on all quantities in excess of Union's obligation on any day. The overrun charges payable will be calculated at the following rates. Overrun will be authorized at Union's sole discretion.

| | If Union supplies fuel Commodity Charge Rate/GJ | Commodity and Fuel Charges Fuel Ratio % AND Commodity Charge Rate/GJ |
|------------------------------------|--|--|
| Transportation Overrun | | |
| Dawn to Parkway | | \$0.086 |
| Dawn to Kirkwall | | \$0.072 |
| Kirkwall to Parkway | | \$0.014 |
| Parkway to Dawn | | \$0.086 |
| Parkway (TCPL) Overrun (4) | n/a | 0.694% n/a |
| <u>M12-X Firm Transportation</u> | | |
| Between Dawn, Kirkwall and Parkway | | Monthly fuel rates and ratios shall be in accordance with schedule "C". \$0.107 |



Daily Currency Converter

All Bank of Canada exchange rates are indicative rates only, obtained from averages of transaction prices and price quotes from financial institutions. Please read our full terms and conditions (<http://www.bankofcanada.ca/terms/#fx-rates>) for details.

Convert to and from Canadian dollars, using the latest noon rates.

Currency Converter

Amount:

1.00

From:

Canadian Dollar

To:

U.S. dollar

☐ Use cash rate

Convert

Answer:

0.75

Exchange Rate:

0.7517

Summary:

On 26 August 2015, 1.00 Canadian Dollar(s) = 0.75 U.S. dollar(s), at an exchange rate of 0.7517 (using nominal rate).

See Also

10-Year Currency Converter (<http://www.bankofcanada.ca/rates/exchange/10-year-converter/>)

Why is the Currency I'm Looking for Not Listed Here?

The Bank currently collects data for about 55 foreign currencies. This data is intended primarily for people with a research interest in foreign exchange markets, and represents a sampling of currencies from various regions. It is not meant to be an exhaustive listing of all world currencies.

Are the Exchange Rates Shown Here Accepted by Canada Revenue Agency?

Yes. The Agency accepts Bank of Canada exchange rates as the basis for calculations involving income and expenses that are denominated in foreign currencies.

Schedule 6

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

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Schedule 6
Page 1 of 5

2 d/b/a Liberty Utilities

3 Peak 2015 - 2016 Winter Cost of Gas Filing

4 Supply and Commodity Costs, Volumes and Rates

| 6 | For Month of: | Reference | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Peak |
|----|---|-----------------------|----------------|---------------|----------------|---------------|--------------|--------------|----------------|
| 7 | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | Nov- Apr |
| 8 | | | | | | | | | (i) |
| 9 | Supply and Commodity Costs | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | Pipeline Gas | | | | | | | | |
| 12 | Dawn Supply | In 63 * In 102 | | | | | | | |
| 13 | Niagara Supply | In 64 * In 107 | | | | | | | |
| 14 | TGP Supply (Direct) | In 65 * In 123 | | | | | | | |
| 15 | Dracut Supply 1 - Baseload | In 66 * In 112 | | | | | | | |
| 16 | Dracut Supply 2 - Swing | In 67 * In 117 | | | | | | | |
| 17 | City Gate Delivered Supply | In 68 * In 129 | | | | | | | |
| 18 | LNG Truck | In 69 * In 131 | | | | | | | |
| 19 | Propane Truck | In 70 * In 133 | | | | | | | |
| 20 | PNGTS | In 71 * In 138 | | | | | | | |
| 21 | TGP Supply (Z4) | In 72 * In 143 | | | | | | | |
| 22 | | | | | | | | | |
| 23 | Subtotal Pipeline Gas Costs | | \$ 3,044,824 | \$ 10,770,106 | \$ 21,043,350 | \$ 15,257,252 | \$ 2,723,263 | \$ 2,153,821 | \$ 54,992,615 |
| 24 | | | | | | | | | |
| 25 | Volumetric Transportation Costs | | | | | | | | |
| 26 | Dawn Supply | In 63 * In 176 | | | | | | | |
| 27 | Niagara Supply | In 64 * In 187 | | | | | | | |
| 28 | TGP Supply (Direct) | In 65 * In 214 | | | | | | | |
| 29 | Dracut Supply 1 - Baseload | In 66 * In 235 | | | | | | | |
| 30 | Dracut Supply 2 - Swing | In 67 * In 235 | | | | | | | |
| 31 | City Gate Delivered Supply | In 68 * In 235 | | | | | | | |
| 32 | TGP Storage - Withdrawals | In 77 * In 165 | | | | | | | |
| 33 | | | | | | | | | |
| 34 | Total Volumetric Transportation Costs | | \$ 256,437 | \$ 236,970 | \$ 267,308 | \$ 239,731 | \$ 220,082 | \$ 212,834 | \$ 1,433,363 |
| 35 | | | | | | | | | |
| 36 | Less - Gas Refill | | | | | | | | |
| 37 | LNG Truck | In 86 * In 150 | | | | | | | |
| 38 | Propane | In 87 * In 151 | | | | | | | |
| 39 | TGP Storage Refill | In 88 * In 121 | | | | | | | |
| 40 | Storage Refill (Trans.) | In 88 * In 214 | | | | | | | |
| 41 | | | | | | | | | |
| 42 | Subtotal Refills | | \$ (1,168,668) | \$ (2,859) | \$ (2,213,655) | \$ (857,316) | \$ (148,170) | \$ (584,701) | \$ (4,975,369) |
| 43 | | | | | | | | | |
| 44 | Total Supply & Pipeline Commodity Costs | In 23 + In 34 + In 42 | \$ 2,132,593 | \$ 11,004,217 | \$ 19,097,002 | \$ 14,639,667 | \$ 2,795,175 | \$ 1,781,955 | \$ 51,450,609 |
| 45 | | | | | | | | | |
| 46 | Storage Gas | | | | | | | | |
| 47 | TGP Storage - Withdrawals | In 77 * In 157 | \$ 859,300 | \$ 878,874 | \$ 951,038 | \$ 957,636 | \$ 1,234,739 | \$ 608,392 | \$ 5,489,978 |
| 48 | | | | | | | | | |
| 49 | Produced Gas | | | | | | | | |
| 50 | LNG Vapor | In 80 * In 145 | | | | | | | |
| 51 | Propane | In 81 * In 147 | | | | | | | |
| 52 | | | | | | | | | |
| 53 | Total Produced Gas | In 50 + In 51 | \$ 3,446 | \$ 3,649 | \$ 2,643,842 | \$ 857,496 | \$ 4,908 | \$ 34,135 | \$ 3,547,477 |
| 54 | | | | | | | | | |
| 55 | | | | | | | | | |
| 56 | Total Commodity Gas & Trans. Costs | In 44 + In 47 + In 53 | \$ 2,995,339 | \$ 11,886,740 | \$ 22,691,882 | \$ 16,454,799 | \$ 4,034,822 | \$ 2,424,482 | \$ 60,488,065 |
| 57 | | | | | | | | | \$ 92,102,397 |

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1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**
2 **d/b/a Liberty Utilities**

3 **Peak 2015 - 2016 Winter Cost of Gas Filing**

4 **Supply and Commodity Costs, Volumes and Rates**

| 5 | | | | | | | | |
|----|------------------------------|------------------|-------------|------------|-------------|------------|-------------|-------------|
| 6 | For Month of: | Reference | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Peak |
| 7 | (a) | (b) | (c) | (d) | (e) | (f) | (g) | Nov- Apr |
| 8 | | | | | | | | (i) |
| 59 | | | | | | | | |
| 60 | Volumes (Therms) | | | | | | | |
| 61 | | | | | | | | |
| 62 | Pipeline Gas | See Schedule 11A | | | | | | |
| 63 | Dawn Supply | | 836,662 | 921,223 | 935,514 | 851,729 | 878,077 | 5,267,474 |
| 64 | Niagara Supply | | 653,294 | 719,148 | 730,305 | 664,495 | 685,467 | 4,111,942 |
| 65 | TGP Supply (Direct) | | 4,768,976 | 3,122,500 | 3,170,940 | 2,887,067 | 2,976,256 | 21,077,429 |
| 66 | Dracut Supply 1 - Baseload | | - | 2,751,782 | 4,657,201 | 3,180,032 | - | 10,589,015 |
| 67 | Dracut Supply 2 - Swing | | 1,584,778 | 3,727,982 | 3,922,369 | 3,133,775 | 536,760 | 12,997,126 |
| 68 | City Gate Delivered Supply | | - | - | - | - | - | - |
| 69 | LNG Truck | | 2,789 | 2,972 | 1,083,386 | 691,663 | 81,435 | 1,862,243 |
| 70 | Propane Truck | | - | - | 691,828 | - | - | 691,828 |
| 71 | PNGTS | | 57,172 | 80,978 | 91,288 | 78,565 | 67,980 | 423,825 |
| 72 | TGP Supply (Z4) | | 1,680,994 | 1,851,361 | 1,880,082 | 1,711,534 | 1,764,652 | 10,963,412 |
| 73 | | | | | | | | |
| 74 | Subtotal Pipeline Volumes | | 9,584,666 | 13,177,947 | 17,162,912 | 13,198,860 | 6,990,626 | 67,984,295 |
| 75 | | | | | | | | |
| 76 | Storage Gas | | | | | | | |
| 77 | TGP Storage | | 4,585,608 | 4,690,065 | 5,075,164 | 5,110,373 | 6,589,118 | 29,395,741 |
| 78 | | | | | | | | |
| 79 | Produced Gas | | | | | | | |
| 80 | LNG Vapor | | 2,789 | 2,972 | 1,171,656 | 691,663 | 2,833 | 1,891,611 |
| 81 | Propane | | - | - | 691,828 | - | - | 691,828 |
| 82 | | | | | | | | |
| 83 | Subtotal Produced Gas | | 2,789 | 2,972 | 1,863,484 | 691,663 | 2,833 | 2,583,439 |
| 84 | | | | | | | | |
| 85 | Less - Gas Refill | | | | | | | |
| 86 | LNG Truck | | (2,789) | (2,972) | (1,083,386) | (691,663) | (81,435) | (1,862,243) |
| 87 | Propane | | - | - | (691,828) | - | - | (691,828) |
| 88 | TGP Storage Refill | | (3,551,632) | - | - | - | (1,755,374) | (5,307,007) |
| 89 | | | | | | | | |
| 90 | Subtotal Refills | | (3,554,421) | (2,972) | (1,775,213) | (691,663) | (81,435) | (7,861,078) |
| 91 | | | | | | | | |
| 92 | Total Sendout Volumes | | 10,618,641 | 17,868,013 | 22,326,346 | 18,309,233 | 13,501,142 | 92,102,397 |
| 93 | | | | | | | | |
| 94 | | | | | | | | |
| 95 | | | | | | | | |

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 d/b/a Liberty Utilities

3 Peak 2015 - 2016 Winter Cost of Gas Filing

4 Supply and Commodity Costs, Volumes and Rates

5

6 For Month of:

Reference

Nov-15

Dec-15

Jan-16

Feb-16

Mar-16

Apr-16

Peak
Nov- Apr

7 (a)

(b)

(c)

(d)

(e)

(f)

(g)

(h)

(i)

96 Gas Costs and Volumetric Transportation Rates

97

98 Pipeline Gas

99 Dawn Supply

100 NYMEX Price Sch 7, ln 10/10

101 Basis Differential

102 Net Commodity Costs

103

104 Niagara Supply

105 NYMEX Price Sch 7, ln 10/10

106 Basis Differential

107 Net Commodity Costs

108

109 Dracut Supply 1 - Baseload

110 Commodity Costs - NYMEX Price Sch 7, ln 10 / 10

111 Basis Differential

112 Net Commodity Costs

113

114 Dracut Supply 2 - Swing

115 Commodity Costs - NYMEX Price Sch 7, ln 10 / 10

116 Basis Differential

117 Net Commodity Costs

118

119

120 TGP Supply (Direct)

121 NYMEX Price Sch 7, ln 10/10

122 Basis Differential

123 Net Commodity Costs

124

125

126 City Gate Delivered Supply

127 NYMEX Price Sch 7, ln 10/10

128 Basis Differential

129 Net Commodity Costs

130

131 LNG Truck Sch 7, ln 10/10

132

133 Propane Truck Propane WACOG

134

135 PNGTS

136 NYMEX Price Sch 7, ln 10/10

137 Basis Differential

138 Net Commodity Cost

139

140 TGP Supply (Z4)

141 NYMEX Price Sch 7, ln 10/10

142 Basis Differential

143 Net Commodity Cost

144

145 LNG Vapor (Storage) Sch 16, ln 95 /10

146

147 Propane Sch 16, ln 66 /10

148

149 Storage Refill

150 LNG Truck ln 131

151 Propane ln 133

152

153

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Schedule 6
Page 3 of 5

Average Rate

| | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|
| \$1.7962 | \$0.9621 | \$1.2547 | \$1.2395 | \$1.8195 | \$1.8045 | \$1.4794 |
| \$1.2349 | \$1.2349 | \$1.2349 | \$1.2349 | \$1.2349 | \$1.2349 | \$1.2349 |
| \$1.2356 | \$1.2279 | \$1.2524 | \$1.2398 | \$1.7328 | \$1.7328 | \$1.4035 |
| \$1.2349 | \$1.2349 | \$1.7005 | \$1.7005 | \$1.7005 | \$1.7005 | \$1.5453 |
| \$1.7962 | \$0.9621 | \$1.2547 | \$1.2395 | \$1.8195 | \$1.8045 | \$1.4035 |
| \$1.2349 | \$1.2349 | \$1.2349 | \$1.2349 | \$1.2349 | \$1.2349 | \$1.5453 |

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1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 d/b/a Liberty Utilities

3 Peak 2015 - 2016 Winter Cost of Gas Filing

4 Supply and Commodity Costs, Volumes and Rates

5

6 For Month of:

7 (a)

Reference

(b)

Nov-15

(c)

Dec-15

(d)

Jan-16

(e)

Feb-16

(f)

Mar-16

(g)

Apr-16

(h)

Peak
Nov- Apr

(i)

154

155

156 TGP Storage

157 Commodity Costs - Storage withdrawal Sch 16, In 34 /10

158

159 TGP - Max Commodity - Z 4-6

Tenth Rev Sheet No. 15

160 TGP - Max Comm. ACA Rate - Z 4-6

Tenth Rev Sheet No. 15

161 Subtotal TGP - Trans Charge - Max Commodity Rate - Z 4-6

162 TGP - Fuel Charge % - Z 4-6

Ninth Rev Sheet No. 32

163 TGP - Fuel Charge % - Z 4-6 - (NYMEX * Percentage)

164 TGP - Withdrawal Charge Tenth Rev Sheet No.61

165 Total Volumetric Transportation Rate - TGP (Storage)

166

167 Total TGP - Comm. & Vol. Trans. Rate In 157 + In 165

168

169

156 Per Unit Volumetric Transportation Rates

157 Dawn Supply Volumetric Transportation Charge

158 Commodity Costs In 102

159

160 TransCanada - Commodity Rate/GJ

Union Parkway to Iroquois

161 Conversion Rate GL to MMBTU

updated 7/28/15

162 Conversion Rate to US\$

163 Commodity Rate/US\$

In 160 x In 161 x In 162

164 TransCanada Fuel %

Union Parkway to Iroquois

165 TransCanada Fuel * Percentage

In 158 x In 164

166 Subtotal TransCanada

167 IGTS - Z1 RTS Commodity

First Revised Sheet No. 4

168 IGTS - Z1 RTS ACA Rate Commodity

Fifth Revised Sheet 4A

169 IGTS - Z1 RTS Deferred Asset Surcharge

Fifth Revised Sheet 4A

170 Subtotal IGTS - Trans Charge - Z1 RTS Commodity

171 TGP NET-NE - Comm. Segments 3 & 4

Tenth Rev Sheet No. 15

172 IGTS -Fuel Use Factor - Percentage

Fifth Revised Sheet 4A

173 IGTS -Fuel Use Factor - Fuel * Percentage

In 158 x In 172

174 TGP FTA Fuel Charge % Z 5-6

Ninth Rev Sheet No. 32

175 TGP FTA Fuel * Percentage

In 158 x In 174

176 Total Volumetric Transportation Charge - Dawn Supply

177

178

179 Niagara Supply Volumetric Transportation Charge

180 Commodity Costs Ln 107

181

182 TGP FTA - FTA Z 5-6 Comm. Rate

Tenth Rev Sheet No. 15

183 TGP FTA - FTA Z 5-6 - ACA Rate

Tenth Rev Sheet No. 15

184 Subtotal TGP FTA - FTA Z 5-6 Commodity Rate

185 TGP FTA Fuel Charge % Z 5-6

Ninth Rev Sheet No. 32

186 TGP FTA Fuel * Percentage

In 180 x In 185

187 Total Volumetric Transportation Rate - Niagara Supply

188

189

190

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Schedule 6

Page 4 of 5

Average Rate

\$0.1865

\$0.01088

\$0.00014

\$0.01102

\$0.01102

\$0.01102

\$0.01102

\$0.01354

\$0.01354

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6 For Month of:

7 (a)

Reference

(b)

Nov-15

(c)

Dec-15

(d)

Jan-16

(e)

Feb-16

(f)

Mar-16

(g)

Apr-16

(h)

Peak
Nov- Apr

(i)

191

192

193 TGP Direct Volumetric Transportation Charge

194 Commodity Costs

Ln 121

Average Rate

195

196 TGP - Max Comm. Base Rate - Z 0-6 Tenth Rev Sheet No. 15

\$0.03139

\$0.03139

\$0.03139

\$0.03139

\$0.03139

\$0.03139

\$0.03139

197 TGP - Max Commodity ACA Rate - Z 0-6 Tenth Rev Sheet No. 15

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

198 Subtotal TGP - Max Comm. Rate Z 0-6

\$0.03153

\$0.03153

\$0.03153

\$0.03153

\$0.03153

\$0.03153

\$0.03153

199 Prorated Percentage

32.60%

32.60%

32.60%

32.60%

32.60%

32.60%

32.60%

200 Prorated TGP - Max Commodity Rate - Z 0-6

\$0.01028

\$0.01028

\$0.01028

\$0.01028

\$0.01028

\$0.01028

\$0.01028

201 TGP - Max Comm. Base Rate - Z 1-6 Tenth Rev Sheet No. 15

\$0.02738

\$0.02738

\$0.02738

\$0.02738

\$0.02738

\$0.02738

\$0.02738

202 TGP - Max Commodity ACA Rate - Z 1-6 Tenth Rev Sheet No. 15

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

203 Subtotal TGP - Max Commodity Rate - Z 1-6

\$0.02752

\$0.02752

\$0.02752

\$0.02752

\$0.02752

\$0.02752

\$0.02752

204 Prorated Percentage

67.40%

67.40%

67.40%

67.40%

67.40%

67.40%

67.40%

205 Prorated TGP - Trans Charge - Max Commodity Rate - Z 1-6

\$0.01855

\$0.01855

\$0.01855

\$0.01855

\$0.01855

\$0.01855

\$0.01855

206 TGP - Fuel Charge % - Z 0-6 Ninth Rev Sheet No. 32

2.68%

2.68%

2.68%

2.68%

2.68%

2.68%

2.68%

207 Prorated Percentage

32.6%

32.6%

32.6%

32.6%

32.6%

32.6%

32.6%

208 Prorated TGP Fuel Charge % - Z 0-6

0.87%

0.87%

0.87%

0.87%

0.87%

0.87%

0.87%

209 TGP - Fuel Charge % - Z 1-6 Ninth Rev Sheet No. 32

2.36%

2.36%

2.36%

2.36%

2.36%

2.36%

2.36%

210 Prorated Percentage

67.40%

67.40%

67.40%

67.40%

67.40%

67.40%

67.40%

211 Prorated TGP Fuel Charge - Fuel Charge % - Z 1-6

1.59%

1.59%

1.59%

1.59%

1.59%

1.59%

1.59%

212 TGP - Fuel Charge % - Z 0-6 In 194 x In 208

\$0.00255

\$0.00269

\$0.00278

\$0.00277

\$0.00273

\$0.00259

\$0.00268

213 TGP - Fuel Charge % - Z 1-6 In 194 x In 211

\$0.00464

\$0.00489

\$0.00505

\$0.00504

\$0.00498

\$0.00472

\$0.00489

214 Total Volumetric Transportation Rate - TGP (Direct)

\$0.03601

\$0.03640

\$0.03666

\$0.03664

\$0.03654

\$0.03614

\$0.03640

215

216 TGP (Zone 6 Purchase) Volumetric Transportation Charge

217 Commodity Costs

Ln 121

218

219 TGP - Max Comm. Base Rate - Z 6-6 Tenth Rev Sheet No. 15

\$0.00349

\$0.00349

\$0.00349

\$0.00349

\$0.00349

\$0.00349

\$0.00349

220 TGP - Max Commodity ACA Rate - Z 6-6 Tenth Rev Sheet No. 15

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

221 Subtotal TGP - Max Commodity Rate - Z 6-6

\$0.00363

\$0.00363

\$0.00363

\$0.00363

\$0.00363

\$0.00363

\$0.00363

222 TGP - Fuel Charge % - Z 6-6 Ninth Rev Sheet No. 32

0.26%

0.26%

0.26%

0.26%

0.26%

0.26%

0.26%

223 TGP - Fuel Charge In 217 x In 222

\$0.00076

\$0.00080

\$0.00083

\$0.00082

\$0.00081

\$0.00077

\$0.00080

224 Total Vol. Trans. Rate - TGP (Zone 6)

\$0.00439

\$0.00443

\$0.00446

\$0.00445

\$0.00444

\$0.00440

\$0.00443

225

226

227 TGP Dracut

228 Commodity Costs - NYMEX Price

Ln 112

229

230 TGP - Trans Charge - Comm. - Z 6-6 Tenth Rev Sheet No. 15

\$0.00349

\$0.00349

\$0.00349

\$0.00349

\$0.00349

\$0.00349

\$0.00349

231 TGP - Trans Charge - ACA Rate - Z6-6 Tenth Rev Sheet No. 15

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

\$0.00014

232 Subtotal TGP - Trans Charge - Max Commodity Rate - Z 6-6

\$0.00363

\$0.00363

\$0.00363

\$0.00363

\$0.00363

\$0.00363

\$0.00363

233 TGP - Fuel Charge % - Z 6-6 Ninth Rev Sheet No. 32

0.26%

0.26%

0.26%

0.26%

0.26%

0.26%

0.26%

234 TGP - Fuel Charge In 228 x In 233

235 Total Volumetric Transportation Rate - TGP Dracut

236

237

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Schedule 6
Page 5 of 5

Schedule 7

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.
2 d/b/a Liberty Utilities
3 Peak 2015 - 2016 Winter Cost of Gas Filing
4 NYMEX Futures @ Henry Hub and Hedged Contracts
5

| | | | | | | | | | Peak |
|--|-------------------------|-----------|------------|------------|------------|------------|------------|-----------|------------------|
| 6 For Month of: | Reference | | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Strip Average |
| 7 (a) | (b) | | (c) | (d) | (e) | (f) | (g) | (h) | (i) |
| I. NYMEX Opening Prices as of | | | | | | | | | |
| 9 Opening Prices (15 day average) | | | 2.9163 | 3.0743 | 3.1769 | 3.1714 | 3.1281 | 2.9695 | \$ 3.0727 |
| 10 NYMEX | In 201 | Filed COG | 2.9163 | 3.0743 | 3.1769 | 3.1714 | 3.1281 | 2.9695 | \$ 3.0727 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| II. Development of Hedging Costs and Savings | | | | | | | | | |
| | | | | | | | | | |
| TGP (Direct) Volumes | | | | | | | | | Total |
| 23 Hedged Volumes (Dth) | In 83 | | 2,068 | 32,879 | 43,465 | 33,270 | 22,170 | 362 | 134,214 |
| 24 Market Priced Volumes (Dth) | | | 782,303 | 1,091,385 | 1,298,168 | 1,038,440 | 485,486 | 574,303 | 5,270,085 |
| 25 Total Volumes (Dth) | Sch 6, Ins 63 - 68 / 10 | | 784,371 | 1,124,264 | 1,341,633 | 1,071,710 | 507,656 | 574,665 | 5,404,299 |
| | | | | | | | | | |
| | | | | | | | | | Weighted Average |
| 28 Hedge Price | In 170 | | \$ 4,2374 | \$ 4,3800 | \$ 4,5050 | \$ 4,4833 | \$ 4,4267 | \$ 4,1752 | \$ 4,4511 |
| 29 NYMEX Price | In 10 | | \$ 2,9163 | \$ 3,0743 | \$ 3,1769 | \$ 3,1714 | \$ 3,1281 | \$ 2,9695 | \$ 3,1378 |
| | | | | | | | | | |
| 31 Hedged Volumes at Hedged Price | In 23 * In 28 | | \$ 8,763 | \$ 144,010 | \$ 195,810 | \$ 149,161 | \$ 98,139 | \$ 1,511 | \$ 597,394 |
| 32 Less Hedged Volumes at NYMEX | In 24 * In 29 | | 6,031 | 101,079 | 138,085 | 105,512 | 69,349 | 1,075 | 421,132 |
| | | | | | | | | | |
| 34 Hedge Contract (Savings)/Loss | In 31 - In 32 | | \$ 2,732 | \$ 42,931 | \$ 57,724 | \$ 43,648 | \$ 28,790 | \$ 436 | \$ 176,262 |
| | | | | | | | | | |
| 36 Total Financial Hedge | In 23 | | 20,680 | 328,790 | 434,650 | 332,700 | 221,700 | 3,620 | 1,342,140 |
| 37 Total Underground Storage | Sch 6, Ln 77 | | 4,585,608 | 4,690,065 | 5,075,164 | 5,110,373 | 6,589,118 | 3,345,413 | 29,395,741 |
| 38 Sub Total | | | 4,606,288 | 5,018,855 | 5,509,814 | 5,443,073 | 6,810,818 | 3,349,033 | 30,737,881 |
| 39 Total Throughput | Sch 6, In 92 | | 10,618,641 | 17,868,013 | 22,326,346 | 18,309,233 | 13,501,142 | 9,479,022 | 92,102,397 |
| 40 Hedge Percentage | In 38 / In 39 | | 43% | 28% | 25% | 30% | 50% | 35% | 33% |

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42 Hedged Volumes (Dth)

| | | | | |
|------------|----|------------|-----------|-------|
| 43 Hedge # | 1 | Trade Date | 18-Jun-14 | Swaps |
| 44 Hedge # | 2 | Trade Date | 18-Jul-14 | Swaps |
| 45 Hedge # | 3 | Trade Date | 3-Jul-14 | Swaps |
| 46 Hedge # | 4 | Trade Date | | Swaps |
| 47 Hedge # | 5 | Trade Date | | Swaps |
| 48 Hedge # | 6 | Trade Date | | Swaps |
| 49 Hedge # | 7 | Trade Date | | Swaps |
| 50 Hedge # | 8 | Trade Date | | Swaps |
| 51 Hedge # | 9 | Trade Date | | Swaps |
| 52 Hedge # | 10 | Trade Date | | Swaps |
| 53 Hedge # | 11 | Trade Date | | Swaps |
| 54 Hedge # | 12 | Trade Date | | Swaps |
| 55 Hedge # | 13 | Trade Date | | Swaps |
| 56 Hedge # | 14 | Trade Date | | Swaps |
| 57 Hedge # | 15 | Trade Date | | Swaps |
| 58 Hedge # | 16 | Trade Date | | Swaps |
| 59 Hedge # | 17 | Trade Date | | Swaps |
| 60 Hedge # | 18 | Trade Date | | Swaps |
| 61 Hedge # | 19 | Trade Date | | Swaps |
| 62 Hedge # | 20 | Trade Date | | Swaps |
| 63 Hedge # | 21 | Trade Date | | Swaps |
| 64 Hedge # | 22 | Trade Date | | Swaps |
| 65 Hedge # | 23 | Trade Date | | Swaps |

66 Hedge # 24
67 Hedge # 25
68 Hedge # 26
69 Hedge # 27
70 Hedge # 28
71 Hedge # 29
72 Hedge # 30

73
74
75
76
77
78
79

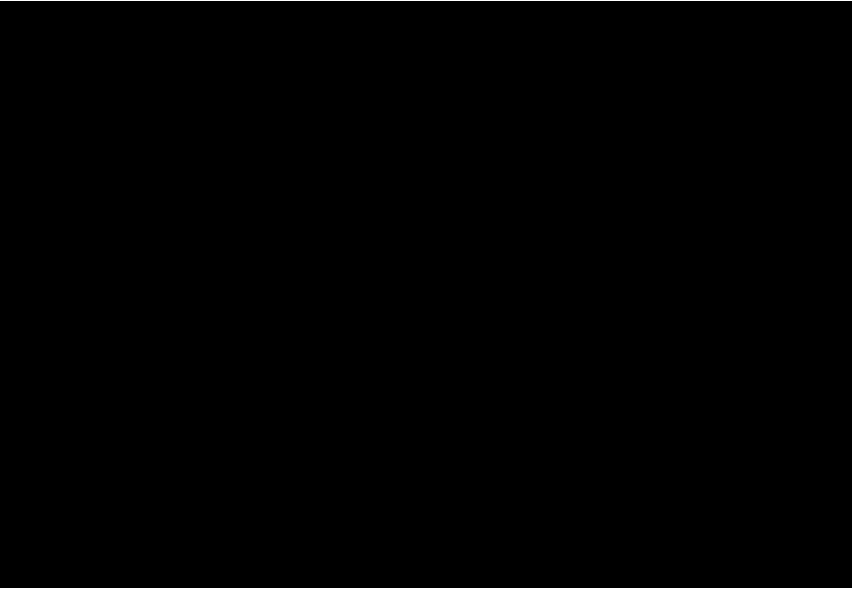
80 Subtotal Hedge Volumes

81 Remaining

82 Total Volumes

83

84



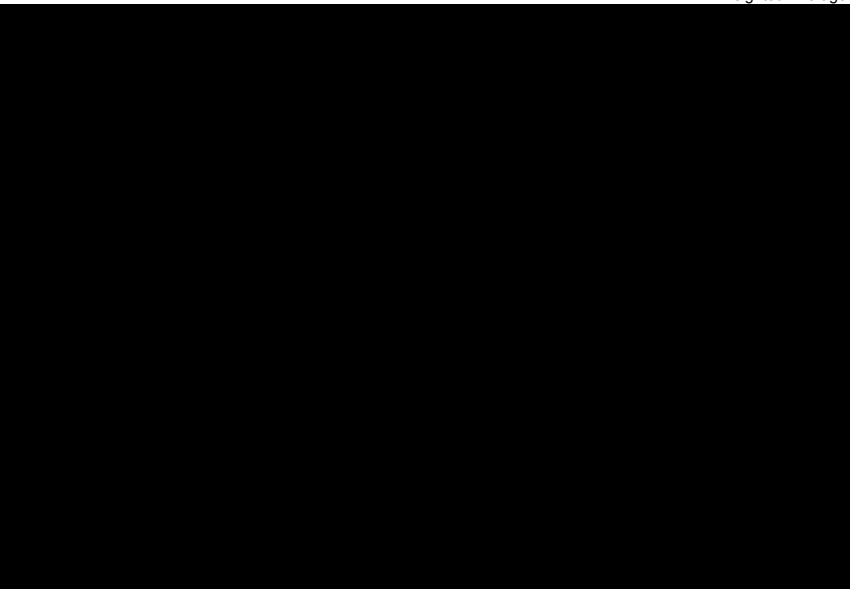
| | | | | | | |
|-------|--------|--------|--------|--------|-----|---------|
| 2,068 | 32,879 | 43,465 | 33,270 | 22,170 | 362 | 134,214 |
| - | - | - | - | - | - | - |
| 2 068 | 32 879 | 43 465 | 33 270 | 22 170 | 362 | 134 214 |

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1 Liberty Utilities (EnergyNorth Natural Gas) Corp.
2 d/b/a Liberty Utilities
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4 NYMEX Futures @ Henry Hub and Hedged Contracts
5

Peak

| 6 For Month of: | | Reference | | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Strip Average |
|--|----|------------|-----------|-----------------------------|--|----------|----------|----------|----------|------------------|
| 7 | | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) |
| 85 Strike Price | | | | | | | | | | Weighted Average |
| 86 Hedge # | 1 | Trade Date | 18-Jun-14 | Swaps |  | | | | | |
| 87 Hedge # | 2 | Trade Date | 18-Jul-14 | Swaps | | | | | | |
| 88 Hedge # | 3 | Trade Date | 3-Jul-14 | Swaps | | | | | | |
| 89 Hedge # | 4 | Trade Date | | Swaps | | | | | | |
| 90 Hedge # | 5 | Trade Date | | Swaps | | | | | | |
| 91 Hedge # | 6 | Trade Date | | Swaps | | | | | | |
| 92 Hedge # | 7 | Trade Date | | Swaps | | | | | | |
| 93 Hedge # | 8 | Trade Date | | Swaps | | | | | | |
| 94 Hedge # | 9 | Trade Date | | Swaps | | | | | | |
| 95 Hedge # | 10 | Trade Date | | Swaps | | | | | | |
| 96 Hedge # | 11 | Trade Date | | Swaps | | | | | | |
| 97 Hedge # | 12 | Trade Date | | Swaps | | | | | | |
| 98 Hedge # | 13 | Trade Date | | Swaps | | | | | | |
| 99 Hedge # | 14 | Trade Date | | Swaps | | | | | | |
| 100 Hedge # | 15 | Trade Date | | Swaps | | | | | | |
| 101 Hedge # | 16 | Trade Date | | Swaps | | | | | | |
| 102 Hedge # | 17 | Trade Date | | Swaps | | | | | | |
| 103 Hedge # | 18 | Trade Date | | Swaps | | | | | | |
| 104 Hedge # | 19 | Trade Date | | Swaps | | | | | | |
| 105 Hedge # | 20 | Trade Date | | Swaps | | | | | | |
| 106 Hedge # | 21 | Trade Date | | Swaps | | | | | | |
| 107 Hedge # | 22 | Trade Date | | Swaps | | | | | | |
| 108 Hedge # | 23 | Trade Date | | Swaps | | | | | | |
| 109 Hedge # | 24 | | | | | | | | | |
| 110 Hedge # | 25 | | | | | | | | | |
| 111 Hedge # | 26 | | | | | | | | | |
| 112 Hedge # | 27 | | | | | | | | | |
| 113 Hedge # | 28 | | | | | | | | | |
| 114 Hedge # | 29 | | | | | | | | | |
| 115 Hedge # | 30 | | | | | | | | | |
| 116 | | | | | | | | | | |
| 117 | | | | | | | | | | |
| 118 | | | | | | | | | | |
| 119 | | | | | | | | | | |
| 120 | | | | | | | | | | |
| 121 | | | | | | | | | | |
| 122 | | | | | | | | | | |
| 123 Subtotal Weighted Average Hedge Prices | | | | \$4.2374 | \$4.3800 | \$4.5050 | \$4.4833 | \$4.4267 | \$4.1752 | 4.4511 |
| 124 NYMEX | | | | \$2.9163 | \$3.0743 | \$3.1769 | \$3.1714 | \$3.1281 | \$2.9695 | #DIV/0! |
| 125 | | | | THIS PAGE HAS BEEN REDACTED | | | | | | |
| 126 | | | | | | | | | | |

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1 Liberty Utilities (EnergyNorth Natural Gas) Corp.
2 d/b/a Liberty Utilities
3 Peak 2015 - 2016 Winter Cost of Gas Filing
4 NYMEX Futures @ Henry Hub and Hedged Contracts
5

| | | | | Peak | | | | | | |
|---|------------|-----------|-----------|----------|-----------|-----------|-----------|----------|----------|---------------|
| 6 For Month of: | | | Reference | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Strip Average |
| 7 | (a) | | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) |
| 127 Hedge Dollars | | | | | | | | | | |
| 128 Hedge # 1 | Trade Date | 18-Jun-14 | Swaps | | | | | | | |
| 129 Hedge # 2 | Trade Date | 18-Jul-14 | Swaps | | | | | | | |
| 130 Hedge # 3 | Trade Date | 3-Jul-14 | Swaps | | | | | | | |
| 131 Hedge # 4 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 132 Hedge # 5 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 133 Hedge # 6 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 134 Hedge # 7 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 135 Hedge # 8 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 136 Hedge # 9 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 137 Hedge # 10 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 138 Hedge # 11 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 139 Hedge # 12 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 140 Hedge # 13 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 141 Hedge # 14 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 142 Hedge # 15 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 143 Hedge # 16 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 144 Hedge # 17 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 145 Hedge # 18 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 146 Hedge # 19 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 147 Hedge # 20 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 148 Hedge # 21 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 149 Hedge # 22 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 150 Hedge # 23 | Trade Date | 0-Jan-00 | Swaps | | | | | | | |
| 151 Hedge # 24 | | | | | | | | | | |
| 152 Hedge # 25 | | | | | | | | | | |
| 153 Hedge # 26 | | | | | | | | | | |
| 154 Hedge # 27 | | | | | | | | | | |
| 155 Hedge # 28 | | | | | | | | | | |
| 156 Hedge # 29 | | | | | | | | | | |
| 157 Hedge # 30 | | | | | | | | | | |
| 158 | | | | | | | | | | |
| 159 | | | | | | | | | | |
| 160 | | | | | | | | | | |
| 161 | | | | | | | | | | |
| 162 | | | | | | | | | | |
| 163 | | | | | | | | | | |
| 164 | | | | | | | | | | |
| 165 Subtotal Hedge Dollars | | | | \$8,763 | \$144,010 | \$195,810 | \$149,161 | \$98,139 | \$1,511 | \$597,394 |
| 166 Remaining | | | | - | - | - | - | - | - | - |
| 167 | | | | | | | | | | |
| 168 Target Hedged Dollars | | | | \$8,763 | \$144,010 | \$195,810 | \$149,161 | \$98,139 | \$1,511 | \$597,394 |
| 169 | | | | | | | | | | |
| 170 Weighted Average Hedged Cost per Unit | | | | \$4.2374 | \$4.3800 | \$4.5050 | \$4.4833 | \$4.4267 | \$4.1752 | \$4.4511 |
| 171 | | | | | | | | | | |
| 172 | | | | | | | | | | |

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1 Liberty Utilities (EnergyNorth Natural Gas) Corp.
2 d/b/a Liberty Utilities
3 Peak 2015 - 2016 Winter Cost of Gas Filing
4 NYMEX Futures @ Henry Hub and Hedged Contracts
5

Peak

| 6 For Month of: | (a) | Reference (b) | Nov-15 (c) | Dec-15 (d) | Jan-16 (e) | Feb-16 (f) | Mar-16 (g) | Apr-16 (h) | Strip Average (i) |
|-----------------|--|------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------------|
| 7 | | | | | | | | | |
| 173 | <u>NYMEX Settlement - 15 Day Average</u> | | | | | | | | |
| 174 | | Days | | | | | | | |
| 175 | | 1 | 20-Aug | 2 8740 | 3.0260 | 3.1260 | 3.1240 | 3.0830 | 2 9320 |
| 176 | | 2 | 19-Aug | 2 8360 | 2.9890 | 3.0880 | 3.0880 | 3.0490 | 2 9060 |
| 177 | | 3 | 18-Aug | 2 8390 | 3.0000 | 3.1020 | 3.1000 | 3.0600 | 2 9150 |
| 178 | | 4 | 17-Aug | 2 8720 | 3.0380 | 3.1400 | 3.1360 | 3.0940 | 2 9470 |
| 179 | | 5 | 14-Aug | 2 9390 | 3.0980 | 3.1980 | 3.1920 | 3.1480 | 2 9910 |
| 180 | | | | | | | | | |
| 181 | | | | | | | | | |
| 182 | | 6 | 13-Aug | 2 9240 | 3.0850 | 3.1850 | 3.1790 | 3.1360 | 2 9790 |
| 183 | | 7 | 12-Aug | 3.0490 | 3.1930 | 3 2880 | 3.2790 | 3.2310 | 3.0470 |
| 184 | | 8 | 11-Aug | 2 9730 | 3.1280 | 3 2290 | 3.2220 | 3.1750 | 3.0000 |
| 185 | | 9 | 10-Aug | 2 9720 | 3.1310 | 3 2330 | 3.2260 | 3.1780 | 3.0030 |
| 186 | | 10 | 7-Aug | 2 9250 | 3.0820 | 3.1860 | 3.1790 | 3.1340 | 2 9740 |
| 187 | | | | | | | | | |
| 188 | | | | | | | | | |
| 189 | | 11 | 6-Aug | 2 9300 | 3.0810 | 3.1840 | 3.1780 | 3.1330 | 2 9730 |
| 190 | | 12 | 5-Aug | 2 9140 | 3.0690 | 3.1750 | 3.1680 | 3.1230 | 2 9610 |
| 191 | | 13 | 4-Aug | 2 9410 | 3.0980 | 3 2040 | 3.1960 | 3.1520 | 2 9820 |
| 192 | | 14 | 3-Aug | 2 8880 | 3.0540 | 3.1640 | 3.1580 | 3.1170 | 2 9660 |
| 193 | | 15 | 31-Jul | 2 8680 | 3.0420 | 3.1520 | 3.1460 | 3.1080 | 2 9660 |
| 194 | | | 1-Aug | | | | | | |
| 195 | | | 2-Aug | | | | | | |
| 196 | | | 3-Aug | | | | | | |
| 197 | | | 4-Aug | | | | | | |
| 198 | | | 5-Aug | | | | | | |
| 199 | | | 6-Aug | | | | | | |
| 200 | | | | | | | | | |
| 201 | | 15 Day Average | | 2 9163 | 3.0743 | 3.1769 | 3.1714 | 3.1281 | 2 9695 |

Schedule 8

Liberty Utilities (EnergyNorth Natural Gas) Corp.

d/b/a Liberty Utilities

Peak 2015 - 2016 Winter Cost of Gas Filing

Annual Bill Comparisons, Nov 14 - Apr 15 vs Nov 15 - Apr 16 - Residential Heating Rate R-3

4

5

November 1, 2015 - April 30, 2016

Residential Heating (R3)

PROPOSED

| | | | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Winter Nov-Apr |
|------------------------|----------|-----------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| average Usage (Therms) | | | 46 | 96 | 121 | 138 | 129 | 93 | 623 |
| | 7/1/2015 | 12/1/2014 | | | | | | | |
| Winter: | | | | | | | | | |
| Cust. Chg | \$22.04 | \$19.85 | \$22.04 | \$22.04 | \$22.04 | \$22.04 | \$22.04 | \$22.04 | \$132.24 |
| Headblock | \$0.3486 | \$0.3140 | \$15.89 | \$33.34 | \$34.86 | \$34.86 | \$34.86 | \$32.51 | \$186.32 |
| Tailblock | \$0.2885 | \$0.2594 | \$0.00 | \$0.00 | \$6.11 | \$10.96 | \$8.40 | \$0.00 | \$25.47 |
| HB Threshold | 100 | 100 | | | | | | | |
| Summer: | | | | | | | | | |
| Cust. Chg | \$22.04 | \$19.85 | | | | | | | |
| Headblock | \$0.3486 | \$0.3140 | | | | | | | |
| Tailblock | \$0.2885 | \$0.2594 | | | | | | | |
| HB Threshold | 20 | 20 | | | | | | | |
| Total Base Rate Amount | | | \$37.93 | \$55.38 | \$63.01 | \$67.86 | \$65.30 | \$54.55 | \$344.03 |
| COG Rate - (Seasonal) | | | \$0.7516 | \$0.7516 | \$0.7516 | \$0.7516 | \$0.7516 | \$0.7516 | \$0.7516 |
| COG amount | | | \$34.25 | \$71.89 | \$91.07 | \$103.72 | \$97.04 | \$70.10 | \$468.07 |
| LDAC | | | \$0.1014 | \$0.1014 | \$0.1014 | \$0.1014 | \$0.1014 | \$0.1014 | 0.1014 |
| LDAC amount | | | \$4.62 | \$9.70 | \$12.29 | \$13.99 | \$13.09 | \$9.46 | \$63.15 |
| Total Bill | | | \$76.80 | \$136.97 | \$166.37 | \$185.58 | \$175.42 | \$134.11 | \$875.25 |

November 1, 2014 - April 30, 2015

Residential Heating (R3)

CURRENT

| | | | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | Apr-15 | Winter Nov-Apr |
|------------------------|----------|----------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| average Usage (Therms) | | | 46 | 96 | 121 | 138 | 129 | 93 | 623 |
| | 7/1/2013 | 7/1/2014 | | | | | | | |
| Winter: | | | | | | | | | |
| Cust. Chg | \$17.40 | \$17.51 | \$17.51 | \$19.85 | \$19.85 | \$19.85 | \$19.85 | \$19.85 | \$116.76 |
| Headblock | \$0.2752 | \$0.2769 | \$12.62 | \$30.03 | \$31.40 | \$31.40 | \$31.40 | \$29.29 | \$166.14 |
| Tailblock | \$0.2274 | \$0.2288 | \$0.00 | \$0.00 | \$5.49 | \$9.86 | \$7.55 | \$0.00 | \$22.90 |
| HB Threshold | 100 | 100 | | | | | | | |
| Summer: | | | | | | | | | |
| Cust. Chg | \$17.40 | \$17.51 | | | | | | | |
| Headblock | \$0.2752 | \$0.2769 | | | | | | | |
| Tailblock | \$0.2274 | \$0.2268 | | | | | | | |
| HB Threshold | 20 | 20 | | | | | | | |
| Total Base Rate Amount | | | \$30.13 | \$49.88 | \$56.74 | \$61.11 | \$58.80 | \$49.14 | \$305.80 |
| COG Rate - (Seasonal) | | | \$1.1630 | \$1.1630 | \$1.0699 | \$0.9239 | \$0.8722 | \$0.6455 | \$0.9541 |
| COG amount | | | \$53.00 | \$111.24 | \$129.64 | \$127.50 | \$112.61 | \$60.20 | \$594.19 |
| LDAC | | | \$0.0772 | \$0.0772 | \$0.0772 | \$0.0772 | \$0.0772 | \$0.0772 | 0.0772 |
| LDAC amount | | | \$3.52 | \$7.38 | \$9.35 | \$10.65 | \$9.97 | \$7.20 | \$48.08 |
| Total Bill | | | \$86.65 | \$168.51 | \$195.74 | \$199.26 | \$181.37 | \$116.54 | \$948.07 |

DIFFERENCE:

| | | | | | | | |
|-----------------------|-----------------|------------------|------------------|------------------|-----------------|----------------|------------------|
| Total Bill | (\$9.85) | (\$31.54) | (\$29.37) | (\$13.68) | (\$5.95) | \$17.57 | (\$72.82) |
| % Change | -11.37% | -18.71% | -15.01% | -6.87% | -3.28% | 15.08% | -7.68% |
| Base Rate | \$7.80 | \$5.50 | \$6.27 | \$6.76 | \$6.50 | \$5.42 | \$38.23 |
| % Change | 25.88% | 11.02% | 11.04% | 11.06% | 11.05% | 11.02% | 12.50% |
| COG & LDAC | (\$17.65) | (\$37.04) | (\$35.64) | (\$20.44) | (\$12.45) | \$12.15 | (\$111.05) |
| % Change | -33.29% | -33.29% | -27.49% | -16.03% | -11.05% | 20.19% | -18.69% |
| check | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

May 1, 2015 - October 31, 2015

| May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Summer May-Oct | Total Nov-Oct |
|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|-------------------|
| 57 | 27 | 17 | 15 | 14 | 22 | 154 | 776 |
| | | | | | | | |
| \$19.85 | \$19.85 | \$22.04 | \$22.04 | \$22.04 | \$22.04 | \$127.86 | \$260.10 |
| \$6.28 | \$6.28 | \$5.88 | \$5.37 | \$5.05 | \$6.97 | \$35.83 | \$222.15 |
| \$9.58 | \$1.94 | \$0.00 | \$0.00 | \$0.00 | \$0.70 | \$12.22 | \$37.69 |
| \$35.71 | \$28.07 | \$27.92 | \$27.41 | \$27.09 | \$29.71 | \$175.91 | \$519.94 |
| \$0.3073 | \$0.3246 | \$0.3421 | \$0.3421 | \$0.3421 | \$0.3421 | \$0.3261 | \$0.6674 |
| \$17.49 | \$8.92 | \$5.77 | \$5.27 | \$4.96 | \$7.67 | \$50.08 | \$518.16 |
| \$0.0772 | \$0.0772 | \$0.0937 | \$0.0937 | \$0.0937 | \$0.0937 | \$0.0846 | \$0.0981 |
| \$4.39 | \$2.12 | \$1.58 | \$1.44 | \$1.36 | \$2.10 | \$13.00 | \$76.15 |
| \$57.59 | \$39.12 | \$35.27 | \$34.11 | \$33.41 | \$39.49 | \$239.00 | \$1,114.25 |

May 1, 2014 - October 31, 2014

| May-14 | Jun-14 | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Summer May-Oct | Total Nov-Oct |
|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|-------------------|
| 57 | 27 | 17 | 15 | 14 | 22 | 154 | 776 |
| | | | | | | | |
| \$17.40 | \$17.40 | \$17.51 | \$17.51 | \$17.51 | \$17.51 | \$104.84 | \$221.60 |
| \$5.50 | \$5.50 | \$4.67 | \$4.26 | \$4.01 | \$5.54 | \$29.49 | \$195.63 |
| \$8.40 | \$1.70 | \$0.00 | \$0.00 | \$0.00 | \$0.55 | \$10.65 | \$33.55 |
| \$31.30 | \$24.61 | \$22.18 | \$21.77 | \$21.52 | \$23.60 | \$144.98 | \$450.78 |
| \$0.5436 | \$0.5436 | \$0.5436 | \$0.5436 | \$0.3936 | \$0.3936 | \$0.5075 | \$0.8658 |
| \$30.94 | \$14.94 | \$9.17 | \$8.37 | \$5.71 | \$8.83 | \$77.96 | \$672.15 |
| \$0.0290 | \$0.0290 | \$0.0290 | \$0.0290 | \$0.0290 | \$0.0290 | \$0.0290 | \$0.0677 |
| \$1.65 | \$0.80 | \$0.49 | \$0.45 | \$0.42 | \$0.65 | \$4.45 | \$52.53 |
| \$63.89 | \$40.35 | \$31.83 | \$30.58 | \$27.65 | \$33.08 | \$227.39 | \$1,175.46 |

| | | | | | | | |
|-----------------|-----------------|---------------|---------------|---------------|---------------|----------------|------------------|
| (\$6.30) | (\$1.23) | \$3.43 | \$3.53 | \$5.76 | \$6.41 | \$11.60 | (\$61.21) |
| -9.86% | -3.05% | 10.78% | 11.54% | 20.83% | 19.38% | 5.10% | -5.21% |
| \$4.41 | \$3.47 | \$5.74 | \$5.63 | \$5.57 | \$6.11 | \$30.93 | \$69.16 |
| 14.08% | 14.08% | 25.88% | 25.88% | 25.88% | 25.91% | 21.33% | 15.34% |
| (\$10.71) | (\$4.70) | (\$2.31) | (\$2.11) | \$0.19 | \$0.30 | (\$19.33) | (\$130.38) |
| -34.60% | -31.42% | -25.17% | -25.17% | 3.35% | 3.35% | -24.79% | -19.40% |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

d/b/a Liberty Utilities

Peak 2015 - 2016 Winter Cost of Gas Filing

Annual Bill Comparisons, Nov 14 - Apr 15 vs Nov 15 - Apr 16 - Commercial Rate G-41

| | | | | | | | | | | |
|-----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------------|--|
| November 1, 2015 - April 30, 2016 | | | | | | | | | | |
| Commercial Rate (G-41) | | | | | | | | | | |
| PROPOSED | | | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Winter Nov-Apr | |
| average Usage (Therms) | | | 99 | 261 | 353 | 424 | 401 | 273 | 1,812 | |
| Winter: 7/1/2015 12/1/2014 | | | | | | | | | | |
| Cust. Chg | \$48.24 | \$46.71 | \$48.24 | \$48.24 | \$48.24 | \$48.24 | \$48.24 | \$48.24 | \$289.44 | |
| Headblock | \$0.3956 | \$0.3727 | \$39.27 | \$39.56 | \$39.56 | \$39.56 | \$39.56 | \$39.56 | \$237.07 | |
| Tailblock | \$0.2657 | \$0.2424 | \$0.00 | \$42.88 | \$67.26 | \$86.18 | \$79.95 | \$46.01 | \$322.28 | |
| HB Threshold | 100 | 100 | | | | | | | | |
| Summer: | | | | | | | | | | |
| Cust. Chg | \$48.24 | \$46.71 | | | | | | | | |
| Headblock | \$0.3956 | \$0.3727 | | | | | | | | |
| Tailblock | \$0.2657 | \$0.2424 | | | | | | | | |
| HB Threshold | 20 | 20 | | | | | | | | |
| Total Base Rate Amount | | | \$87.51 | \$130.68 | \$155.06 | \$173.98 | \$167.75 | \$133.81 | \$848.80 | |
| COG Rate - (Seasonal) | | | \$0.7454 | \$0.7454 | \$0.7454 | \$0.7454 | \$0.7454 | \$0.7454 | \$0.7454 | |
| COG amount | | | \$74.00 | \$194.83 | \$263.24 | \$316.31 | \$298.84 | \$203.61 | \$1,350.85 | |
| LDAC | | | \$0.0685 | \$0.0685 | \$0.0685 | \$0.0685 | \$0.0685 | \$0.0685 | \$0.0685 | |
| LDAC amount | | | \$6.80 | \$17.90 | \$24.19 | \$29.07 | \$27.46 | \$18.71 | \$124.14 | |
| Total Bill | | | \$168.32 | \$343.42 | \$442.49 | \$519.36 | \$494.06 | \$356.13 | \$2,323.78 | |

November 1, 2014 - April 30, 2015

Commercial Rate (G-41)

| CURRENT | | | | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | Apr-15 | Winter Nov-Apr |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------|
| average Usage (Therms) | | | | 99 | 261 | 353 | 424 | 401 | 273 | 1,812 |
| Winter: | | | | | | | | | | |
| Cust. Chg | 7/1/2013 | 7/1/2014 | 7/1/2015 | \$40.94 | \$41.19 | \$40.94 | \$41.19 | \$40.94 | \$41.19 | \$274.74 |
| Headblock | | | | \$0.3267 | \$0.3287 | \$0.3267 | \$0.3267 | \$0.3267 | \$0.3267 | \$218.98 |
| Tailblock | | | | \$0.2125 | \$0.2138 | \$0.2125 | \$0.2125 | \$0.2125 | \$0.2125 | \$294.02 |
| HB Threshold | 100 | 100 | 100 | | | | | | | |
| Summer: | | | | | | | | | | |
| Cust. Chg | | | | \$40.94 | \$41.19 | \$40.94 | \$41.19 | \$40.94 | \$41.19 | \$274.74 |
| Headblock | | | | \$0.3267 | \$0.3287 | \$0.3267 | \$0.3267 | \$0.3267 | \$0.3267 | \$218.98 |
| Tailblock | | | | \$0.2125 | \$0.2138 | \$0.2125 | \$0.2125 | \$0.2125 | \$0.2125 | \$294.02 |
| HB Threshold | 20 | 20 | 20 | | | | | | | |
| Total Base Rate Amount | | | | \$73.82 | \$123.10 | \$145.34 | \$162.60 | \$156.92 | \$125.95 | \$787.75 |
| COG Rate - (Seasonal) | | | | \$1.1666 | \$1.1666 | \$1.0735 | \$0.9275 | \$0.8758 | \$0.6491 | \$0.9501 |
| COG amount | | | | \$115.82 | \$304.93 | \$379.11 | \$393.59 | \$351.12 | \$177.31 | \$1,721.87 |
| LDAC | | | | \$0.0628 | \$0.0628 | \$0.0628 | \$0.0628 | \$0.0628 | \$0.0628 | \$0.0628 |
| LDAC amount | | | | \$6.23 | \$16.41 | \$22.18 | \$26.65 | \$25.18 | \$17.15 | \$113.81 |
| Total Bill | | | | \$195.87 | \$444.44 | \$546.63 | \$582.84 | \$533.22 | \$320.42 | \$2,623.43 |

DIFFERENCE:

| | | | | | | | |
|------------|-----------|------------|------------|-----------|-----------|---------|------------|
| Total Bill | (\$27.56) | (\$101.02) | (\$104.14) | (\$63.48) | (\$39.16) | \$35.72 | (\$299.64) |
| % Change | -14.07% | -22.73% | -19.05% | -10.89% | -7.34% | 11.15% | -11.42% |
| Base Rate | | | | | | | |
| % Change | 18.55% | 6.16% | 6.69% | 7.00% | 6.90% | 6.24% | 7.75% |
| COG & LDAC | | | | | | | |
| % Change | (\$41.25) | (\$108.60) | (\$113.86) | (\$74.86) | (\$49.99) | \$27.86 | (\$360.70) |
| check | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

May 1, 2015 - October 31, 2015

| May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Summer May-Oct | Total Nov-Oct |
|----------|----------|----------|----------|----------|----------|----------------|---------------|
| 167 | 63 | 35 | 33 | 18 | 42 | 358 | 2,170 |
| \$46.71 | \$46.71 | \$48.24 | \$48.24 | \$48.24 | \$48.24 | \$286.38 | \$575.82 |
| \$7.45 | \$7.45 | \$7.91 | \$7.91 | \$7.11 | \$7.91 | \$45.76 | \$282.83 |
| \$35.67 | \$10.34 | \$3.92 | \$3.37 | \$0.00 | \$5.97 | \$59.27 | \$381.56 |
| \$89.84 | \$64.51 | \$60.07 | \$59.52 | \$55.35 | \$62.12 | \$391.41 | \$1,240.21 |
| \$0.3210 | \$0.3383 | \$0.3558 | \$0.3558 | \$0.3558 | \$0.3558 | \$0.3365 | \$0.6780 |
| \$53.66 | \$21.20 | \$12.37 | \$11.62 | \$6.40 | \$15.11 | \$120.36 | \$1,471.20 |
| \$0.0628 | \$0.0628 | \$0.0793 | \$0.0793 | \$0.0793 | \$0.0793 | \$0.0687 | \$0.0685 |
| \$10.50 | \$3.94 | \$2.76 | \$2.59 | \$1.43 | \$3.37 | \$24.57 | \$148.71 |
| \$154.00 | \$89.64 | \$75.20 | \$73.73 | \$63.17 | \$80.60 | \$536.34 | \$2,860.13 |

May 1, 2014 - October 31, 2014

| May-14 | Jun-14 | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Summer May-Oct | Total Nov-Oct |
|----------|----------|----------|----------|----------|----------|----------------|---------------|
| 167 | 63 | 35 | 33 | 18 | 42 | 358 | 2,170 |
| \$40.94 | \$40.94 | \$41.19 | \$41.19 | \$41.19 | \$41.19 | \$246.64 | \$521.38 |
| \$6.53 | \$6.53 | \$6.57 | \$6.57 | \$5.91 | \$6.57 | \$38.70 | \$257.68 |
| \$31.27 | \$9.07 | \$3.16 | \$2.71 | \$0.00 | \$4.80 | \$51.01 | \$345.03 |
| \$78.75 | \$56.54 | \$50.92 | \$50.47 | \$47.10 | \$52.57 | \$336.35 | \$1,124.09 |
| \$0.5456 | \$0.5456 | \$0.5456 | \$0.5456 | \$0.3956 | \$0.3956 | \$0.5203 | \$0.8793 |
| \$91.21 | \$34.19 | \$18.97 | \$17.82 | \$7.11 | \$16.80 | \$186.10 | \$1,907.97 |
| \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0583 |
| \$5.97 | \$2.24 | \$1.24 | \$1.17 | \$0.64 | \$1.52 | \$12.77 | \$126.58 |
| \$175.92 | \$92.97 | \$71.13 | \$69.46 | \$54.85 | \$70.88 | \$535.22 | \$3,158.64 |

| | | | | | | | |
|-----------|-----------|----------|----------|--------|--------|-----------|------------|
| (\$21.93) | (\$3.33) | \$4.07 | \$4.27 | \$8.32 | \$9.72 | \$1.13 | (\$298.52) |
| -12.46% | -3.58% | 5.72% | 6.15% | 15.17% | 13.71% | 0.21% | -9.45% |
| \$11.09 | \$7.97 | \$9.15 | \$9.05 | \$8.25 | \$9.55 | \$55.06 | \$116.12 |
| 14.08% | 14.09% | 17.98% | 17.92% | 17.52% | 18.17% | 16.37% | 10.33% |
| (\$33.02) | (\$11.29) | (\$5.08) | (\$4.78) | \$0.07 | \$0.16 | (\$53.94) | (\$414.64) |
| -36.20% | -33.03% | -26.80% | -26.80% | 0.96% | 0.96% | -28.98% | -21.73% |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

1 d/b/a Liberty Utilities

2 Peak 2015 - 2016 Winter Cost of Gas Filing

4 Annual Bill Comparisons, Nov 14 - Apr 15 vs Nov 15 - Apr 16 - Commercial Rate G-42

5

6

7 November 1, 2015 - April 30, 2016

8 C&I High Winter Use Medium G-42

9 PROPOSED

| | | | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Winter Nov-Apr |
|----|------------------------|--------------------|------------|------------|------------|------------|------------|------------|-------------------|
| 11 | average Usage (Therms) | | 829 | 1,717 | 2,288 | 2,634 | 2,644 | 1,812 | 11,923 |
| 12 | | 7/1/2015 12/1/2014 | | | | | | | |
| 13 | Winter: | | | | | | | | |
| 14 | Cust. Chg | \$144.73 \$140.13 | \$144.73 | \$144.73 | \$144.73 | \$144.73 | \$144.73 | \$144.73 | \$868.38 |
| 15 | Headblock | \$0.3598 \$0.3483 | \$298.16 | \$359.80 | \$359.80 | \$359.80 | \$359.80 | \$359.80 | \$2,097.16 |
| 16 | Tailblock | \$0.2396 \$0.2302 | \$0.00 | \$171.74 | \$308.58 | \$391.53 | \$393.88 | \$194.44 | \$1,460.17 |
| 17 | HB Threshold | 1,000 1,000 | | | | | | | |
| 18 | | | | | | | | | |
| 19 | Summer: | | | | | | | | |
| 20 | Cust. Chg | \$144.73 \$140.13 | | | | | | | |
| 21 | Headblock | \$0.3598 \$0.3483 | | | | | | | |
| 22 | Tailblock | \$0.2396 \$0.2302 | | | | | | | |
| 23 | HB Threshold | 400 400 | | | | | | | |
| 24 | | | | | | | | | |
| 25 | Total Base Rate Amount | | \$442.89 | \$676.27 | \$813.11 | \$896.06 | \$898.41 | \$698.97 | \$4,425.71 |
| 26 | | | | | | | | | |
| 27 | COG Rate - (Seasonal) | | \$0.7454 | \$0.7454 | \$0.7454 | \$0.7454 | \$0.7454 | \$0.7454 | \$0.7454 |
| 28 | COG amount | | \$617.70 | \$1,279.68 | \$1,705.40 | \$1,963.46 | \$1,970.76 | \$1,350.32 | \$8,887.31 |
| 29 | | | | | | | | | |
| 30 | LDAC | | \$0.0685 | \$0.0685 | \$0.0685 | \$0.0685 | \$0.0685 | \$0.0685 | 0.0685 |
| 31 | LDAC amount | | \$56.76 | \$117.60 | \$156.72 | \$180.44 | \$181.11 | \$124.09 | \$816.72 |
| 32 | | | | | | | | | |
| 33 | Total Bill | | \$1,117.36 | \$2,073.54 | \$2,675.23 | \$3,039.95 | \$3,050.27 | \$2,173.38 | \$14,129.73 |

35 November 1, 2014 - April 30, 2015

36 C&I High Winter Use Medium G-42

37 CURRENT

| | | | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | Apr-15 | Winter Nov-Apr |
|----|------------------------|----------------------------|------------|------------|------------|------------|------------|------------|-------------------|
| 39 | average Usage (Therms) | | 829 | 1,717 | 2,288 | 2,634 | 2,644 | 1,812 | 11,923 |
| 40 | | 7/1/2013 7/1/2014 7/1/2015 | | | | | | | |
| 41 | Winter: | | | | | | | | |
| 42 | Cust. Chg | \$122.81 \$123.58 \$144.73 | \$123.58 | \$140.13 | \$140.13 | \$140.13 | \$140.13 | \$140.13 | \$824.23 |
| 43 | Headblock | \$0.3053 \$0.3072 \$0.3598 | \$254.57 | \$348.30 | \$348.30 | \$348.30 | \$348.30 | \$348.30 | \$1,996.07 |
| 44 | Tailblock | \$0.2017 \$0.2030 \$0.2396 | \$0.00 | \$165.00 | \$296.47 | \$376.17 | \$378.42 | \$186.82 | \$1,402.88 |
| 45 | HB Thresh | 1,000 1,000 1,000 | | | | | | | |
| 46 | | | | | | | | | |
| 47 | Summer: | | | | | | | | |
| 48 | Cust. Chg | \$122.81 \$123.58 \$144.73 | | | | | | | |
| 49 | Headblock | \$0.3053 \$0.3072 \$0.3598 | | | | | | | |
| 50 | Tailblock | \$0.2017 \$0.2030 \$0.2396 | | | | | | | |
| 51 | HB Thresh | 400 400 400 | | | | | | | |
| 52 | | | | | | | | | |
| 53 | Total Base Rate Amount | | \$378.15 | \$653.43 | \$784.90 | \$864.60 | \$866.85 | \$675.25 | \$4,223.18 |
| 54 | | | | | | | | | |
| 55 | COG Rate - (Seasonal) | | \$1.1666 | \$1.1666 | \$1.0735 | \$0.9275 | \$0.8758 | \$0.6491 | \$0.9528 |
| 56 | COG amount | | \$966.74 | \$2,002.78 | \$2,456.05 | \$2,443.13 | \$2,315.52 | \$1,175.87 | \$11,360.09 |
| 57 | | | | | | | | | |
| 58 | LDAC | | \$0.0628 | \$0.0628 | \$0.0628 | \$0.0628 | \$0.0628 | \$0.0628 | 0.0628 |
| 59 | LDAC amount | | \$52.04 | \$107.81 | \$143.68 | \$165.42 | \$166.04 | \$113.76 | \$748.76 |
| 60 | | | | | | | | | |
| 61 | Total Bill | | \$1,396.94 | \$2,764.02 | \$3,384.64 | \$3,473.15 | \$3,348.41 | \$1,964.88 | \$16,332.03 |

63 DIFFERENCE:

| | | | | | | | | | |
|----|------------|--|------------|------------|------------|------------|------------|----------|--------------|
| 64 | Total Bill | | (\$279.58) | (\$690.48) | (\$709.41) | (\$433.19) | (\$298.14) | \$208.50 | (\$2,202.30) |
| 65 | % Change | | -20.01% | -24.98% | -20.96% | -12.47% | -8.90% | 10.61% | -13.48% |
| 66 | | | | | | | | | |
| 67 | Base Rate | | \$64.74 | \$22.84 | \$28.21 | \$31.46 | \$31.55 | \$23.73 | \$202.52 |
| 68 | % Change | | 17.12% | 3.50% | 3.59% | 3.64% | 3.64% | 3.51% | 4.80% |
| 69 | | | | | | | | | |
| 70 | COG & LDAC | | (\$344.32) | (\$713.32) | (\$737.62) | (\$464.65) | (\$329.69) | \$184.78 | (\$2,404.82) |
| 71 | % Change | | -35.62% | -35.62% | -30.03% | -19.02% | -14.24% | 15.71% | -21.17% |
| | check | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

May 1, 2015 - October 31, 2015

| May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Summer May-Oct | Total Nov-Oct |
|----------|----------|----------|----------|----------|----------|-------------------|------------------|
| 1,239 | 541 | 286 | 535 | 254 | 400 | 3,254 | 15,176 |
| | | | | | | | |
| | | | | | | | |
| \$140.13 | \$140.13 | \$144.73 | \$144.73 | \$144.73 | \$144.73 | \$859.18 | \$1,727.56 |
| \$139.32 | \$139.32 | \$102.75 | \$143.92 | \$91.27 | \$143.76 | \$760.33 | \$2,857.49 |
| \$193.10 | \$32.41 | \$0.00 | \$32.40 | \$0.00 | \$0.00 | \$257.91 | \$1,718.08 |
| | | | | | | | |
| \$472.55 | \$311.86 | \$247.48 | \$321.05 | \$236.00 | \$288.49 | \$1,877.42 | \$6,303.13 |
| | | | | | | | |
| \$0.3210 | \$0.3383 | \$0.3558 | \$0.3558 | \$0.3558 | \$0.3558 | \$0.3396 | \$0.6584 |
| \$397.67 | \$182.95 | \$101.60 | \$190.43 | \$90.25 | \$142.16 | \$1,105.07 | \$9,992.37 |
| | | | | | | | |
| \$0.0628 | \$0.0628 | \$0.0793 | \$0.0793 | \$0.0793 | \$0.0793 | \$0.0703 | \$0.0689 |
| \$77.80 | \$33.96 | \$22.65 | \$42.44 | \$20.12 | \$31.68 | \$228.65 | \$1,045.37 |
| | | | | | | | |
| \$948.02 | \$528.77 | \$371.73 | \$553.93 | \$346.37 | \$462.33 | \$3,211.14 | \$17,340.86 |

May 1, 2014 - October 31, 2014

| May-14 | Jun-14 | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Summer May-Oct | Total Nov-Oct |
|------------|----------|----------|----------|----------|----------|-------------------|------------------|
| 1,239 | 541 | 286 | 535 | 254 | 400 | 3,254 | 15,176 |
| | | | | | | | |
| | | | | | | | |
| \$122.81 | \$122.81 | \$123.58 | \$123.58 | \$123.58 | \$123.58 | \$739.94 | \$1,564.17 |
| \$122.88 | \$122.88 | \$87.73 | \$122.88 | \$77.93 | \$122.74 | \$657.03 | \$2,653.10 |
| \$169.19 | \$28.58 | \$0.00 | \$27.45 | \$0.00 | \$0.00 | \$225.22 | \$1,628.11 |
| | | | | | | | |
| \$414.88 | \$274.27 | \$211.31 | \$273.91 | \$201.51 | \$246.32 | \$1,622.20 | \$5,845.38 |
| | | | | | | | |
| \$0.5456 | \$0.5456 | \$0.5456 | \$0.5456 | \$0.3956 | \$0.3956 | \$0.5155 | \$0.8590 |
| \$675.91 | \$295.06 | \$155.81 | \$292.02 | \$100.35 | \$158.06 | \$1,677.20 | \$13,037.29 |
| | | | | | | | |
| \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0570 |
| \$44.23 | \$19.31 | \$10.19 | \$19.11 | \$9.06 | \$14.26 | \$116.15 | \$864.91 |
| | | | | | | | |
| \$1,135.02 | \$588.63 | \$377.31 | \$585.04 | \$310.91 | \$418.64 | \$3,415.55 | \$19,747.58 |

| | | | | | | | |
|------------|-----------|-----------|-----------|---------|---------|------------|--------------|
| (\$187.00) | (\$59.86) | (\$5.58) | (\$31.11) | \$35.46 | \$43.68 | (\$204.41) | (\$2,406.71) |
| -16.48% | -10.17% | -1.48% | -5.32% | 11.40% | 10.43% | -5.98% | -12.19% |
| | | | | | | | |
| \$57.67 | \$37.59 | \$36.17 | \$47.14 | \$34.49 | \$42.17 | \$255.23 | \$457.75 |
| 13.90% | 13.71% | 17.12% | 17.21% | 17.12% | 17.12% | 15.73% | 7.83% |
| | | | | | | | |
| (\$244.67) | (\$97.45) | (\$41.75) | (\$78.25) | \$0.96 | \$1.52 | (\$459.64) | (\$2,864.46) |
| -36.20% | -33.03% | -26.80% | -26.80% | 0.96% | 0.96% | -27.41% | -21.97% |
| | | | | | | | |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

d/b/a Liberty Utilities

Peak 2015 - 2016 Winter Cost of Gas Filing

Annual Bill Comparisons, Nov 14 - Apr 15 vs Nov 15 - Apr 16 - Commercial Rate G-52

5

6

November 1, 2015 - April 30, 2016

Commercial Rate (G-52)

PROPOSED

| | | | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Winter Nov-Apr |
|------------------------|----------|-----------|------------|------------|------------|------------|------------|------------|-------------------|
| average Usage (Therms) | | | 1,123 | 1,655 | 1,861 | 1,748 | 2,049 | 1,652 | 10,088 |
| Winter: | 7/1/2015 | 12/1/2014 | | | | | | | |
| Cust. Chg | \$144.73 | \$140.13 | \$144.73 | \$144.73 | \$144.73 | \$144.73 | \$144.73 | \$144.73 | \$868.38 |
| Headblock | \$0.2047 | \$0.1929 | \$204.70 | \$204.70 | \$204.70 | \$204.70 | \$204.70 | \$204.70 | \$1,228.20 |
| Tailblock | \$0.1364 | \$0.1309 | \$16.76 | \$89.30 | \$117.45 | \$101.97 | \$143.11 | \$88.95 | \$557.54 |
| HB Threshold | 1,000 | 1,000 | | | | | | | |
| Summer: | | | | | | | | | |
| Cust. Chg | \$144.73 | \$140.13 | | | | | | | |
| Headblock | \$0.1484 | \$0.1417 | | | | | | | |
| Tailblock | \$0.0843 | \$0.0816 | | | | | | | |
| HB Threshold | 1,000 | 1,000 | | | | | | | |
| Total Base Rate Amount | | | \$366.19 | \$438.73 | \$466.88 | \$451.40 | \$492.54 | \$438.38 | \$2,654.12 |
| COG Rate - (Seasonal) | | | \$0.7647 | \$0.7647 | \$0.7647 | \$0.7647 | \$0.7647 | \$0.7647 | \$0.7647 |
| COG amount | | | \$858.66 | \$1,265.36 | \$1,423.14 | \$1,336.36 | \$1,567.04 | \$1,263.39 | \$7,713.94 |
| LDAC | | | \$0.0685 | \$0.0685 | \$0.0685 | \$0.0685 | \$0.0685 | \$0.0685 | 0.0685 |
| LDAC amount | | | \$76.92 | \$113.35 | \$127.48 | \$119.71 | \$140.37 | \$113.17 | \$691.00 |
| Total Bill | | | \$1,301.76 | \$1,817.43 | \$2,017.50 | \$1,907.47 | \$2,199.95 | \$1,814.95 | \$11,059.06 |

November 1, 2014 - April 30, 2015

Commercial Rate (G-52)

CURRENT

| | | | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | Apr-15 | Winter Nov-Apr |
|------------------------|----------|----------|------------|------------|------------|------------|------------|------------|-------------------|
| average Usage (Therms) | | | 1,123 | 1,655 | 1,861 | 1,748 | 2,049 | 1,652 | 10,088 |
| Winter: | 7/1/2013 | 7/1/2014 | 7/1/2015 | | | | | | |
| Cust. Chg | \$122.81 | \$123.58 | \$144.73 | \$123.58 | \$140.13 | \$140.13 | \$140.13 | \$140.13 | \$824.23 |
| Headblock | \$0.1691 | \$0.1701 | \$0.2047 | \$170.10 | \$192.90 | \$192.90 | \$192.90 | \$192.90 | \$1,134.60 |
| Tailblock | \$0.1147 | \$0.1154 | \$0.1364 | \$14.18 | \$85.70 | \$112.71 | \$97.86 | \$137.34 | \$533.15 |
| HB Threshold | 1,000 | 1,000 | 1,000 | | | | | | |
| Summer: | | | | | | | | | |
| Cust. Chg | \$122.81 | \$123.58 | \$144.73 | | | | | | |
| Headblock | \$0.1242 | \$0.1250 | \$0.1484 | | | | | | |
| Tailblock | \$0.0715 | \$0.0720 | \$0.0843 | | | | | | |
| HB Threshold | 1,000 | 1,000 | 1,000 | | | | | | |
| Total Base Rate Amount | | | \$307.86 | \$418.73 | \$445.74 | \$430.89 | \$470.37 | \$418.40 | \$2,491.98 |
| COG Rate - (Seasonal) | | | \$1.1384 | \$1.1384 | \$1.0453 | \$0.8993 | \$0.8476 | \$0.6209 | \$0.9360 |
| COG amount | | | \$1,278.27 | \$1,883.72 | \$1,945.35 | \$1,571.58 | \$1,736.92 | \$1,025.82 | \$9,441.66 |
| LDAC | | | \$0.0628 | \$0.0628 | \$0.0628 | \$0.0628 | \$0.0628 | \$0.0628 | 0.0628 |
| LDAC amount | | | \$70.52 | \$103.92 | \$116.87 | \$109.75 | \$128.69 | \$103.75 | \$633.50 |
| Total Bill | | | \$1,656.65 | \$2,406.37 | \$2,507.96 | \$2,112.22 | \$2,335.98 | \$1,547.97 | \$12,567.14 |

DIFFERENCE:

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|----------|--------------|
| Total Bill | (\$354.89) | (\$588.93) | (\$490.46) | (\$204.75) | (\$136.03) | \$266.98 | (\$1,508.08) |
| % Change | -21.42% | -24.47% | -19.56% | -9.69% | -5.82% | 17.25% | -12.00% |
| Base Rate | \$58.33 | \$20.00 | \$21.14 | \$20.51 | \$22.17 | \$19.99 | \$162.14 |
| % Change | 18.95% | 4.78% | 4.74% | 4.76% | 4.71% | 4.78% | 6.51% |
| COG & LDAC | (\$413.22) | (\$608.93) | (\$511.60) | (\$225.26) | (\$158.20) | \$247.00 | (\$1,670.21) |
| % Change | -32.33% | -26.30% | -14.33% | -9.11% | 24.08% | -17.69% | |
| check | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

May 1, 2015 - October 31, 2015

| May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Summer May-Oct | Total Nov-Oct |
|----------|----------|----------|----------|----------|----------|-------------------|------------------|
| 1,142 | 963 | 842 | 832 | 770 | 964 | 5,513 | 15,601 |
| \$140.13 | \$140.13 | \$144.73 | \$144.73 | \$144.73 | \$144.73 | \$859.18 | \$1,727.56 |
| \$141.70 | \$136.53 | \$124.89 | \$123.49 | \$114.21 | \$143.10 | \$783.92 | \$2,012.12 |
| \$12.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$12.00 | \$569.54 |
| \$293.83 | \$276.66 | \$269.62 | \$268.22 | \$258.94 | \$287.83 | \$1,655.09 | \$4,309.21 |
| \$0.2728 | \$0.2901 | \$0.3076 | \$0.3076 | \$0.3076 | \$0.3076 | \$0.2973 | \$0.5995 |
| \$311.62 | \$279.51 | \$258.87 | \$255.97 | \$236.73 | \$296.61 | \$1,639.31 | \$9,353.25 |
| \$0.0628 | \$0.0628 | \$0.0793 | \$0.0793 | \$0.0793 | \$0.0793 | \$0.0730 | \$0.0701 |
| \$71.74 | \$60.51 | \$66.74 | \$65.99 | \$61.03 | \$76.47 | \$402.47 | \$1,093.46 |
| \$677.18 | \$616.67 | \$595.23 | \$590.18 | \$556.70 | \$660.91 | \$3,696.87 | \$14,755.93 |

May 1, 2014 - October 31, 2014

| May-14 | Jun-14 | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Summer May-Oct | Total Nov-Oct |
|----------|----------|----------|----------|----------|----------|-------------------|------------------|
| 1,142 | 963 | 842 | 832 | 770 | 964 | 5,513 | 15,601 |
| \$122.81 | \$122.81 | \$123.58 | \$123.58 | \$123.58 | \$123.58 | \$739.94 | \$1,564.17 |
| \$124.20 | \$119.66 | \$105.20 | \$104.02 | \$96.20 | \$120.54 | \$669.82 | \$1,804.42 |
| \$10.17 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$10.17 | \$543.33 |
| \$257.18 | \$242.47 | \$228.78 | \$227.60 | \$219.78 | \$244.12 | \$1,419.93 | \$3,911.92 |
| \$0.5377 | \$0.5377 | \$0.5377 | \$0.5377 | \$0.3877 | \$0.3877 | \$0.4905 | \$0.7786 |
| \$614.21 | \$518.06 | \$452.52 | \$447.45 | \$298.38 | \$373.85 | \$2,704.47 | \$12,146.13 |
| \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0357 | \$0.0532 |
| \$40.78 | \$34.40 | \$30.04 | \$29.71 | \$27.48 | \$34.42 | \$196.83 | \$830.33 |
| \$912.17 | \$794.93 | \$711.34 | \$704.76 | \$545.64 | \$652.39 | \$4,321.23 | \$16,888.37 |

| | | | | | | | |
|------------|------------|------------|------------|-----------|-----------|------------|--------------|
| (\$235.00) | (\$178.27) | (\$116.11) | (\$114.57) | \$11.07 | \$8.52 | (\$624.36) | (\$2,132.44) |
| -25.76% | -22.43% | -16.32% | -16.26% | 2.03% | 1.31% | -14.45% | -12.63% |
| \$36.64 | \$34.18 | \$40.84 | \$40.62 | \$39.16 | \$43.71 | \$235.16 | \$397.30 |
| 14.25% | 14.10% | 17.85% | 17.85% | 17.82% | 17.91% | 16.56% | 10.16% |
| (\$271.64) | (\$212.45) | (\$156.95) | (\$155.20) | (\$28.09) | (\$35.20) | (\$859.52) | (\$2,529.74) |
| -44.23% | -41.01% | -34.68% | -34.68% | -9.41% | -9.41% | -31.78% | -20.83% |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

1 d/b/a Liberty Utilities

2 Peak 2015 - 2016 Winter Cost of Gas Filing

3 Residential Heating

| | Winter 2014-15 (Beginning December 2014) | Winter 2015-16 |
|---------------------|--|----------------|
| 4 | | |
| 5 Customer Charge | \$19.85 | \$22.04 |
| 6 First 100 Therms | \$0.3140 | \$0.3486 |
| 7 Excess 100 Therms | \$0.2594 | \$0.2885 |
| 8 LDAC | \$0.0772 | \$0.1014 |
| 9 COG | \$0.9541 | \$0.7516 |
| 10 Total Adjust | \$1.0313 | \$0.8530 |

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| | Winter 2014-15 COG @ | Winter 2015-16 COG @ |
|------------------------|----------------------|----------------------|
| | \$1.0313 | \$0.8530 |
| 18 Cooking alone | 5 \$24.05 | \$28.05 |
| 20 | 10 \$30.59 | \$34.06 |
| 22 | 20 \$43.67 | \$46.07 |
| 24 Water Heating alone | 30 \$56.76 | \$58.09 |
| 26 | 45 \$76.38 | \$76.11 |
| 28 | 50 \$82.92 | \$82.12 |
| 30 Heating Alone | 80 \$115.63 | \$112.16 |
| 32 | 125 \$189.92 | \$179.87 |
| 34 | 150 \$211.34 | \$199.28 |
| 36 | 200 \$274.34 | \$256.35 |

| Total | | Base Rate | | COG | | LDAC | |
|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| \$ Impact | % Impact | \$ Impact | % Impact | \$ Impact | % Impact | \$ Impact | % Impact |
| (\$0.18) | -17% | | | | | | |
| \$4.00 | 17% | \$4.89 | 20% | -\$1.01 | -4% | \$0.12 | 1% |
| \$3.46 | 11% | \$5.25 | 17% | -\$2.03 | -6% | \$0.24 | 1% |
| \$2.40 | 5% | \$5.96 | 14% | -\$4.05 | -9% | \$0.48 | 1% |
| \$1.33 | 2% | \$6.68 | 12% | -\$6.08 | -10% | \$0.73 | 1% |
| (\$0.27) | 0% | \$7.76 | 10% | -\$9.11 | -12% | \$1.09 | 1% |
| (\$0.80) | -1% | \$8.12 | 10% | -\$10.13 | -12% | \$1.21 | 1% |
| (\$3.47) | -3% | \$9.91 | 9% | -\$15.19 | -14% | \$1.82 | 2% |
| (\$10.05) | -5% | \$13.67 | 7% | -\$26.93 | -15% | \$3.22 | 2% |
| (\$12.06) | -6% | \$14.69 | 7% | -\$30.38 | -15% | \$3.63 | 2% |
| (\$17.99) | -7% | \$17.67 | 6% | -\$40.50 | -16% | \$4.84 | 2% |

Schedule 9

1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**

2 **d/b/a Liberty Utilities**

3 **Peak 2015 - 2016 Winter Cost of Gas Filing**

4 **Variance Analysis of the Components of the Winter 2014-15 Actual Results vs Proposed Winter 2014-15 Cost of Gas Rate**

| | WINTER 2014-15 ACTUAL RESULTS (6 months actual) | | | WINTER 2015-16 (6 months Proposed) | | |
|--|--|---------------|-----------------------------|---------------------------------------|---------------|-----------------------------|
| | THERM SENDOUT | COSTS | EFFECT ON COST OF GAS | THERM SENDOUT | COSTS | EFFECT ON COST OF GAS |
| 11 Therm Sales | 87,985,011 | | | 85,749,300 | | |
| 16 Demand Charges | | \$ 8,173,399 | \$ 0.0929 | | \$ 8,946,041 | \$ 0.1043 |
| 18 Purchased Gas | 73,366,900 | \$ 57,004,602 | 0.6479 | 60,123,217 | 51,450,609 | 0.6000 |
| 20 Storage/Produced Gas | 23,885,700 | 6,067,744 | 0.0690 | 31,979,180 | 9,037,455 | 0.1054 |
| 22 Hedging (Gain)/Loss | | 1,001,307 | 0.0114 | | 176,262 | 0.0021 |
| 25 Total Volumes and Cost | 97,252,600 | \$ 72,247,051 | \$ 0.8211 | 92,102,397 | \$ 69,610,368 | \$ 0.8118 |
| 27 Direct Costs | | | | | | |
| 28 Prior Period Balance | | \$ 9,837,568 | \$ 0.1118 | | (4,339,198) | \$ (0.0506) |
| 29 Interest | | 603,240 | 0.0069 | | (140,799) | (0.0016) |
| 30 Prior Period Adjustment | | 2,332,062 | 0.0265 | | - | - |
| 31 Broker Revenues | | (1,690,955) | (0.0192) | | (1,917,919) | (0.0224) |
| 32 Refunds from Suppliers | | - | - | | (358,691) | (0.0042) |
| 33 Fuel Financing | | - | - | | - | - |
| 34 Transportation CGA Revenues | | (162,345) | (0.0018) | | 35,761 | 0.0004 |
| 35 280 Day Margin | | - | - | | - | - |
| 36 Interruptible Sales Margin | | - | - | | - | - |
| 37 Capacity Release and Off System Sales Margins | | (3,512,740) | (0.0399) | | (3,512,739) | (0.0410) |
| 38 Hedging Costs | | - | - | | - | - |
| 39 FPO Admin Costs | | - | - | | 49,565 | 0.0006 |
| 40 Indirect Costs | | | | | | |
| 41 Misc Overhead | | 12,714 | 0.0001 | | 10,272 | 0.0001 |
| 42 Occupant Disallowance/Credits | | - | - | | - | - |
| 43 Production & Storage | | 1,980,428 | 0.0225 | | 1,980,428 | 0.0231 |
| 44 Other Indirect Gas Costs | | 1,341,865 | 0.0153 | | 3,035,552 | 0.0354 |
| 45 Cashout, Broker penalty, Canadian Managed,... | | (244,989) | (0.0028) | | 0 | 0 |
| 46 Total Adjusted Cost | | \$ 82,743,899 | \$ 0.9404 | | \$ 64,452,600 | \$ 0.7516 |

Schedule 10

Liberty Utilities (EnergyNorth Natural Gas) Corp.

d/b/a Liberty Utilities

Peak 2015 - 2016 Winter Cost of Gas Filing

Capacity Assignment Calculations 2015-2016

Derivation of Class Assignments and Weightings

Basic assumptions:

- 1 Residential class pays average seasonal gas cost rate (using MBA method to allocate costs to seasons)
- 2 Residual gas costs are allocated to C&I HLF and LLF classes based on MBA method
- 3 The MBA method allocates capacity costs based on design day demands in two pieces:
 - a The base use portion of the class design day demand based on base use
 - b The remaining portion of design day demand based on remaining design day demand
- 4 Base demand is composed solely of pipeline supplies
- 5 Remaining demand consists of a portion of pipeline and all storage and peaking supplies

| | | Column A | Column B | Column C | Column D | Column E | Column F |
|----|--------------------------|-------------------------------|--------------------------------------|------------------|---------------|-----------------------------------|-----------------------------------|
| | | Design Day Demand, Dktherm | Adjusted Design Day Demand, Dt | Percent of Total | | Avg Daily Base Use Load, Dt | Remaining Design Day Demand |
| 1 | RATE R-1-Resi Non-Htg | 445 | 499 | 0.3% | | 124 | 374 |
| 2 | RATE R-3-Resi Htg | 55,069 | 63,703 | 42.0% | | 3,749 | 59,953 |
| 3 | RATE G-41 (T) | 22,007 | 25,529 | 16.8% | | 1,078 | 24,450 |
| 4 | RATE G-51 (S) | 2,853 | 3,224 | 2.1% | | 644 | 2,581 |
| 5 | RATE G-42 (V) | 29,613 | 34,264 | 22.6% | | 1,969 | 32,295 |
| 6 | RATE G-52 | 4,073 | 4,512 | 3.0% | | 1,461 | 3,051 |
| 7 | RATE G-43 | 5,864 | 6,532 | 4.3% | | 1,891 | 4,641 |
| 8 | RATE G-53 | 5,600 | 6,047 | 4.0% | | 2,940 | 3,107 |
| 9 | RATE G-54 | 7,519 | 7,519 | 5.0% | | 7,519 | - |
| 10 | | | | | | | |
| 11 | Total | 133,041 | 151,828 | 100.0% | | 21,375 | 130,453 |
| 12 | | | | | | | - |
| 13 | Residential Total | 55,514 | 64,201 | 42.286% | | 3,874 | 60,328 |
| 14 | LLF Total | 57,484 | 66,324 | 43.684% | | 4,938 | 61,387 |
| 15 | HLF Total | 20,044 | 21,302 | 14.030% | | 12,563 | 8,739 |
| 16 | Total | 133,041 | 151,828 | 100.0% | | 21,375 | 130,453 |
| 17 | | | | | | | |
| 18 | C&I Breakdown | | | | | | |
| 19 | LLF Total | | | | | 4,938 | 61,387 |
| 20 | HLF Total | | | | | 12,563 | 8,739 |
| 21 | Total | | | | | 17,501 | 70,125 |
| 22 | | | | | | | |
| 23 | C&I Breakdown Percentage | | | | | | |
| 24 | LLF Total | | | | | 28.214% | 87.538% |
| 25 | HLF Total | | | | | 71.786% | 12.462% |
| 26 | Total | | | | | 100.0% | 100.0% |
| 27 | | | | | | | |
| 28 | | Capacity Cost | MDQ, Dt | \$/Dt-Mo. | | | |
| 29 | Pipeline | \$13,932,735 | 78,718 | \$14.7496 | | | |
| 30 | Storage | \$4,138,570 | 28,115 | \$12.2668 | | | |
| 31 | | | | | | | |
| 32 | Peaking | \$1,500,000 | | | | | |
| 33 | Peaking Additional Costs | \$0 | | | | | |
| 34 | Subtotal Peaking Costs | <u>\$1,500,000</u> | 44,995 | \$2.7781 | | | |
| 35 | Total | \$19,571,305 | 151,828 | \$10.7420 | | | |
| 36 | | | | | | | |
| 37 | | Capacity Cost | MDQ, Dt | \$/Dt-Mo. | | | |
| 38 | Pipeline - Baseload | 3,783,247 | 21,375 | \$14.7496 | | | |
| 39 | Pipeline - Remaining | 10,149,488 | 57,343 | \$14.7496 | | | |
| 40 | Storage | 4,138,570 | 28,115 | \$12.2668 | | | |
| 41 | Peaking | <u>1,500,000</u> | <u>44,995</u> | <u>\$2.7781</u> | | | |
| 42 | Total | 19,571,305 | 151,828 | \$10.7420 | | | |
| 43 | | | | | | | |
| 44 | | | | | | | |
| 45 | Residential Allocation | Capacity Cost | MDQ, Dt | \$/Dt-Mo. | | | |
| 46 | Pipeline - Base | Line 38 * Line 13 Col C | 42.286% | 1,599,784 | 9,039 | \$14.7496 | |
| 47 | Pipeline - Remaining | Line 39 * Line 13 Col C | 42.286% | 4,291,801 | 24,248 | \$14.7496 | |
| 48 | Storage | Line 40 * Line 13 Col C | 42.286% | 1,750,037 | 11,889 | \$12.2668 | |
| 49 | Peaking | Line 41 * Line 13 Col C | 42.286% | <u>634,307</u> | <u>19,027</u> | <u>\$2.7781</u> | |
| 50 | Total | | 42.286% | 8,275,946 | 64,202 | \$10.7420 | |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

d/b/a Liberty Utilities

Peak 2015 - 2016 Winter Cost of Gas Filing

Capacity Assignment Calculations 2015-2016

Derivation of Class Assignments and Weightings

| | | | | | | | | | |
|----|----------------------|-------------------------|---------------|------------|------------|-----------|--|---------------------|--|
| 51 | | | | | | | | | |
| 52 | | | | | | | | | |
| 53 | C&I Allocation | | Capacity Cost | MDQ, Dt | \$/Dt-Mo. | | | | |
| 54 | Pipeline - Base | Line 38 - Line 46 | 2,183,464 | 12,336 | \$14.7496 | | | | |
| 55 | Pipeline - Remaining | Line 39 - Line 47 | 5,857,687 | 33,095 | \$14.7497 | | | | |
| 56 | Storage | Line 40 - Line 48 | 2,388,533 | 16,226 | \$12.2668 | | | | |
| 57 | Peaking | Line 41 - Line 49 | 865,693 | 25,968 | \$2.7781 | | | | |
| 58 | Total | | 57.714% | 11,295,376 | 87,626 | \$10.7421 | | 1.0000 | |
| 59 | | | | | | | | | |
| 60 | | | | | | | | | |
| 61 | LLF - C&I Allocation | | Capacity Cost | MDQ, Dt | \$/Dt-Mo. | | | | |
| 62 | Pipeline - Base | Line 54 * Line 24 Col E | 616,051 | 3,481 | \$14.7479 | | | | |
| 63 | Pipeline - Remaining | Line 55 * Line 24 Col F | 5,127,725 | 28,971 | \$14.7496 | | | | |
| 64 | Storage | Line 56 * Line 24 Col F | 2,090,883 | 14,204 | \$12.2670 | | | | |
| 65 | Peaking | Line 57 * Line 24 Col F | 757,814 | 22,732 | \$2.7781 | | | | |
| 66 | Total | | 43.9034% | 8,592,473 | 69,388 | \$10.3194 | | 0.9607 | |
| 67 | | | 28.214% | 76% | | | | (Line 66 / Line 58) | |
| 68 | | | | | | | | | |
| 69 | HLF - C&I Allocation | | Capacity Cost | MDQ, Dt | \$/Dt-Mo. | | | | |
| 70 | Pipeline - Base | Line 54 - Line 62 | 1,567,413 | 8,855 | \$14.7507 | | | | |
| 71 | Pipeline - Remaining | Line 55 - Line 63 | 729,962 | 4,124 | \$14.7503 | | | | |
| 72 | Storage | Line 56 - Line 64 | 297,650 | 2,022 | \$12.2671 | | | | |
| 73 | Peaking | Line 57 - Line 65 | 107,879 | 3,236 | \$2.7781 | | | | |
| 74 | Total | | 13.8105% | 2,702,904 | 18,237 | \$12.3508 | | 1.1498 | |
| 75 | | | | | | | | (Line 74 / Line 58) | |
| 76 | | | | | | | | | |
| 77 | Unit Cost | | Residential | LLF C&I | HLF C&I | | | | |
| 78 | | | | | | | | | |
| 79 | Pipeline | | \$ 14.7496 | \$ 14.7496 | \$ 14.7496 | | | | |
| 80 | Storage | | \$ 12.2668 | \$ 12.2668 | \$ 12.2668 | | | | |
| 81 | Peaking | | \$ - | \$ - | \$ - | | | | |
| 82 | Total | | \$ 10.7420 | \$ 10.3194 | \$ 12.3508 | | | | |
| 83 | | | | | | | | | |
| 84 | | | | | | | | | |
| 85 | Load Makeup | | Residential | LLF C&I | HLF C&I | | | | |
| 86 | | | | | | | | | |
| 87 | Pipeline | | 51.85% | 46.77% | 71.17% | | | | |
| 88 | Storage | | 18.52% | 20.47% | 11.09% | | | | |
| 89 | Peaking | | 29.64% | 32.76% | 17.74% | | | | |
| 90 | Total | | 100.00% | 100.00% | 100.00% | | | | |
| 91 | | | | | | | | | |
| 92 | | | | | | | | | |
| 93 | Supply Makeup | | Residential | LLF C&I | HLF C&I | Total | | | |
| 94 | | | | | | | | | |
| 95 | Pipeline | | 42.29% | 41.23% | 16.49% | 100.00% | | | |
| 96 | Storage | | 42.29% | 50.52% | 7.19% | 100.00% | | | |
| 97 | Peaking | | 42.29% | 50.52% | 7.19% | 100.00% | | | |

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 d/b/a Liberty Utilities

3 2015-2016 Winter Calculation

4 Correction Factor Calculation

5

6

7

8 Data Source: Schedule 10B

9

10

11 G-41

12 G-42

13 G-43

14 High Winter Use

15

16 G-51

17 G-52

18 G-53

19 G-54

21 Low Winter Use

22

23 Gross Total

24

25

26 Total Sales

27 Low Winter Use

28 Winter Ratio for Low Winter Use

29 High Winter Use

30 Winter Ratio for High Winter Use

31

32 Correction Factor =

33 Correction Factor =

34

35

36 Allocation Calculation for Miscellaneous Overhead

37

38 Projected Winter Sales Volume

39 Projected Annual Sales Volume

40 Percentage of Winter Sales to Annual Sales

| | d | e | f | g | h | i | Total Sales |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
| | Nov | Dec | Jan | Feb | Mar | Apr | |
| G-41 | 942,674 | 1,825,246 | 2,573,546 | 2,731,489 | 2,139,483 | 1,627,582 | 11,840,021 |
| G-42 | 935,865 | 1,739,756 | 2,247,525 | 2,644,346 | 1,890,855 | 1,500,449 | 10,958,795 |
| G-43 | 217,427 | 290,591 | 360,107 | 383,731 | 281,033 | 258,516 | 1,791,406 |
| High Winter Use | 2,095,967 | 3,855,593 | 5,181,178 | 5,759,566 | 4,311,371 | 3,386,547 | 24,590,222 |
| G-51 | 351,620 | 668,742 | 957,756 | 892,195 | 834,252 | 716,590 | 4,421,156 |
| G-52 | 343,664 | 648,103 | 858,214 | 837,905 | 808,348 | 715,523 | 4,211,756 |
| G-53 | 102,591 | 179,349 | 259,491 | 254,959 | 236,295 | 222,023 | 1,254,708 |
| G-54 | 174,665 | 257,681 | 315,486 | 293,509 | 299,920 | 306,103 | 1,647,363 |
| Low Winter Use | 972,540 | 1,753,875 | 2,390,948 | 2,278,567 | 2,178,815 | 1,960,239 | 11,534,983 |
| Gross Total | 3,068,506 | 5,609,468 | 7,572,126 | 8,038,133 | 6,490,186 | 5,346,786 | 36,125,205 |

36,125,205

11,534,983

1.1498 Schedule 10A p 2, ln 74

24,590,222

0.9607 Schedule 10A p 2, ln 66

Total Sales/((Low Winter Use x Winter Ratio for Low Winter Use)+(High Winter Use x Winter Ratio for High Winter Use)

97.9355%

(11/1/15 - 4/30/16)

85,913,727 Sch.10B, ln 23

(11/1/15 - 10/31/16)

110,149,849 Sch.10B, ln 23

78.00%

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.
2 d/b/a Liberty Utilities
3 Peak 2015 - 2016 Winter Cost of Gas Filing
4 2015 - 2016 Winter Cost of Gas Filing

| Dry Therms | | | | | | | | | | | | | | | |
|-------------------------|------------|------------|------------|------------|------------|------------|-------------|------------|-----------|-----------|-----------|-----------|-----------|------------|-------------|
| 7 Firm Sales | | | | | | | Subtotal | | | | | | | Subtotal | |
| | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | PK 15-16 | May-16 | Jun-16 | Jul-16 | Aug-16 | Sep-16 | Oct-16 | OP 16 | Total |
| 9 R-1 | 55,270 | 73,809 | 91,550 | 99,032 | 86,390 | 77,129 | 483,180 | 62,750 | 51,962 | 44,865 | 41,862 | 42,207 | 47,726 | 291,372 | 774,552 |
| 10 R-3 | 3,874,644 | 7,306,248 | 9,947,611 | 9,927,210 | 8,230,076 | 6,682,212 | 45,968,001 | 3,836,662 | 2,148,309 | 1,339,841 | 1,148,534 | 1,348,387 | 2,559,355 | 12,381,088 | 58,349,089 |
| 11 R-4 | 204,363 | 407,781 | 651,605 | 766,666 | 675,530 | 631,396 | 3,337,341 | 378,893 | 209,211 | 109,909 | 80,531 | 76,059 | 123,571 | 978,174 | 4,315,515 |
| 12 Total Residential. | 4,134,277 | 7,787,838 | 10,690,766 | 10,792,908 | 8,991,996 | 7,390,737 | 49,788,522 | 4,278,304 | 2,409,481 | 1,494,615 | 1,270,928 | 1,466,653 | 2,730,652 | 13,650,633 | 63,439,156 |
| 13 | | | | | | | | | | | | | | | |
| 14 G-41 | 942,674 | 1,825,246 | 2,573,546 | 2,731,489 | 2,139,483 | 1,627,582 | 11,840,021 | 833,444 | 257,783 | 126,168 | 101,317 | 104,053 | 375,840 | 1,798,606 | 13,638,627 |
| 15 G-42 | 935,865 | 1,739,756 | 2,247,525 | 2,644,346 | 1,890,855 | 1,500,449 | 10,958,795 | 1,010,135 | 467,652 | 209,345 | 104,379 | 74,088 | 289,739 | 2,155,338 | 13,114,133 |
| 16 G-43 | 217,427 | 290,591 | 360,107 | 383,731 | 281,033 | 258,516 | 1,791,406 | 175,060 | 79,805 | 44,366 | 39,521 | 53,806 | 116,147 | 508,705 | 2,300,111 |
| 17 G-51 | 351,620 | 668,742 | 957,756 | 892,195 | 834,252 | 716,590 | 4,421,156 | 503,742 | 334,274 | 275,287 | 254,080 | 274,897 | 325,128 | 1,967,408 | 6,388,564 |
| 18 G-52 | 343,664 | 648,103 | 858,214 | 837,905 | 808,348 | 715,523 | 4,211,756 | 523,236 | 362,632 | 306,393 | 285,890 | 298,719 | 333,503 | 2,110,373 | 6,322,129 |
| 19 G-53 | 102,591 | 179,349 | 259,491 | 254,959 | 236,295 | 222,023 | 1,254,708 | 162,884 | 111,447 | 92,433 | 87,998 | 94,006 | 101,735 | 650,503 | 1,905,211 |
| 20 G-54 | 174,665 | 257,681 | 315,486 | 293,509 | 299,920 | 306,103 | 1,647,363 | 280,082 | 235,393 | 226,191 | 219,921 | 224,538 | 208,430 | 1,394,555 | 3,041,918 |
| 21 Total C/I | 3,068,506 | 5,609,468 | 7,572,126 | 8,038,133 | 6,490,186 | 5,346,786 | 36,125,205 | 3,488,583 | 1,848,985 | 1,280,183 | 1,093,107 | 1,124,108 | 1,750,523 | 10,585,488 | 46,710,693 |
| 22 | | | | | | | | | | | | | | | |
| 23 Sales Volume | 7,202,784 | 13,397,306 | 18,262,892 | 18,831,041 | 15,482,182 | 12,737,522 | 85,913,727 | 7,766,887 | 4,258,466 | 2,774,798 | 2,364,035 | 2,590,761 | 4,481,175 | 24,236,121 | 110,149,849 |
| 24 | | | | | | | | | | | | | | | |
| 25 Transportation Sales | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | |
| 27 G-41 | 446,515 | 726,048 | 952,621 | 1,102,493 | 967,149 | 784,358 | 4,979,184 | 451,940 | 261,918 | 171,595 | 161,338 | 174,781 | 263,601 | 1,485,173 | 6,464,358 |
| 28 G-42 | 1,494,069 | 2,384,245 | 3,174,888 | 3,675,371 | 3,244,363 | 2,607,818 | 16,580,755 | 1,479,111 | 849,098 | 486,705 | 405,492 | 460,710 | 787,174 | 4,468,291 | 21,049,046 |
| 29 G-43 | 609,103 | 925,371 | 1,189,479 | 1,357,509 | 1,512,464 | 1,254,974 | 6,848,900 | 854,880 | 531,784 | 307,527 | 224,045 | 240,117 | 387,829 | 2,546,182 | 9,395,082 |
| 30 G-51 | 140,158 | 146,562 | 161,472 | 168,678 | 151,396 | 158,084 | 926,350 | 160,366 | 175,117 | 190,985 | 184,719 | 171,943 | 147,347 | 1,030,477 | 1,956,827 |
| 31 G-52 | 498,547 | 510,497 | 514,495 | 520,287 | 484,063 | 482,857 | 3,010,745 | 508,459 | 583,159 | 667,577 | 647,605 | 624,275 | 550,937 | 3,582,013 | 6,592,757 |
| 32 G-53 | 575,051 | 741,704 | 887,918 | 976,502 | 935,228 | 875,744 | 4,992,146 | 793,633 | 641,266 | 470,008 | 342,783 | 327,443 | 403,190 | 2,978,323 | 7,970,469 |
| 33 G-54 | 1,834,681 | 1,928,010 | 1,943,108 | 1,857,698 | 1,808,290 | 1,707,182 | 11,078,970 | 1,635,748 | 1,567,920 | 1,539,607 | 1,547,497 | 1,638,537 | 1,806,597 | 9,735,906 | 20,814,877 |
| 34 | | | | | | | | | | | | | | | |
| 35 Total Trans. Sales | 5,598,123 | 7,362,439 | 8,823,981 | 9,658,539 | 9,102,950 | 7,871,017 | 48,417,049 | 5,884,138 | 4,610,262 | 3,834,005 | 3,513,479 | 3,637,806 | 4,346,675 | 25,826,365 | 74,243,414 |
| 36 | | | | | | | | | | | | | | | |
| 37 Total All Sales | 12,800,906 | 20,759,744 | 27,086,873 | 28,489,580 | 24,585,132 | 20,608,540 | 134,330,777 | 13,651,025 | 8,868,729 | 6,608,803 | 5,877,513 | 6,228,566 | 8,827,850 | 50,062,487 | 184,393,263 |

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Schedule 11

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 d/b/a Liberty Utilities

3 Peak 2015 - 2016 Winter Cost of Gas Filing

4 Normal and Design Year Volumes

5

6

7 Volumes (Therms)

Normal Year

8

9 For the Months of November 15 - April 15

10

11

12

13 Pipeline Gas:

14 Dawn Supply

15 Niagara Supply

16 TGP Supply (Gulf)

17 Dracut Supply 1 - Baseload

18 Dracut Supply 2 - Swing

19 City Gate Delivered Supply

20 LNG Truck

21 Propane Truck

22 PNGTS

23 TGP Supply (Z4)

24 Subtotal Pipeline Volumes

25

26 Storage Gas:

27 TGP Storage

28

29 Produced Gas:

30 LNG Vapor

31 Propane

32 Subtotal Produced Gas

33

34 Less - Gas Refills:

35 LNG Truck

36 Propane

37 TGP Storage Refill

38 Subtotal Refills

39

40 Total Sendout Volumes

41

Schedule 11A

Page 1 of 1

| | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Peak Nov - Apr |
|----------------------------|-------------|------------|-------------|------------|------------|-------------|-------------------|
| Pipeline Gas: | | | | | | | |
| Dawn Supply | 836,662 | 921,223 | 935,514 | 851,729 | 878,077 | 844,268 | 5,267,474 |
| Niagara Supply | 653,294 | 719,148 | 730,305 | 664,495 | 685,467 | 659,233 | 4,111,942 |
| TGP Supply (Gulf) | 4,768,976 | 3,122,500 | 3,170,940 | 2,887,067 | 2,976,256 | 4,151,689 | 21,077,429 |
| Dracut Supply 1 - Baseload | - | 2,751,782 | 4,657,201 | 3,180,032 | - | - | 10,589,015 |
| Dracut Supply 2 - Swing | 1,584,778 | 3,727,982 | 3,922,369 | 3,133,775 | 536,760 | 91,462 | 12,997,126 |
| City Gate Delivered Supply | - | - | - | - | - | - | 0 |
| LNG Truck | 2,789 | 2,972 | 1,083,386 | 691,663 | 81,435 | - | 1,862,243 |
| Propane Truck | - | - | 691,828 | - | - | - | 691,828 |
| PNGTS | 57,172 | 80,978 | 91,288 | 78,565 | 67,980 | 47,842 | 423,825 |
| TGP Supply (Z4) | 1,680,994 | 1,851,361 | 1,880,082 | 1,711,534 | 1,764,652 | 2,074,789 | 10,963,412 |
| Subtotal Pipeline Volumes | 9,584,666 | 13,177,947 | 17,162,912 | 13,198,860 | 6,990,626 | 7,869,283 | 67,984,295 |
| Storage Gas: | | | | | | | |
| TGP Storage | 4,585,608 | 4,690,065 | 5,075,164 | 5,110,373 | 6,589,118 | 3,345,413 | 29,395,741 |
| Produced Gas: | | | | | | | |
| LNG Vapor | 2,789 | 2,972 | 1,171,656 | 691,663 | 2,833 | 19,700 | 1,891,611 |
| Propane | - | - | 691,828 | - | - | - | 691,828 |
| Subtotal Produced Gas | 2,789 | 2,972 | 1,863,484 | 691,663 | 2,833 | 19,700 | 2,583,439 |
| Less - Gas Refills: | | | | | | | |
| LNG Truck | (2,789) | (2,972) | (1,083,386) | (691,663) | (81,435) | - | (1,862,243) |
| Propane | - | - | (691,828) | - | - | - | (691,828) |
| TGP Storage Refill | (3,551,632) | - | - | - | - | (1,755,374) | (5,307,007) |
| Subtotal Refills | (3,554,421) | (2,972) | (1,775,213) | (691,663) | (81,435) | (1,755,374) | (7,861,078) |
| Total Sendout Volumes | 10,618,641 | 17,868,013 | 22,326,346 | 18,309,233 | 13,501,142 | 9,479,022 | 92,102,397 |

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 d/b/a Liberty Utilities

3 Peak 2015 - 2016 Winter Cost of Gas Filing

42 Normal and Design Year Volumes

Schedule 11B

Page 1 of 1

43

44

45 Volumes (Therms)

Design Year

46

47 For the Months of November 15 - April 15

48

49

50

Nov-15

Dec-15

Jan-16

Feb-16

Mar-16

Apr-16

Peak
Nov - Apr

51 Pipeline Gas:

52 Dawn Supply 836,662 921,223 935,514 851,729 878,077 844,268 5,267,474

53 Niagara Supply 653,294 719,148 730,305 664,495 685,467 659,233 4,111,942

54 TGP Supply (Gulf) 4,768,279 3,122,500 3,170,940 2,887,067 2,976,256 4,199,531 21,124,574

55 Dracut Supply 1 - Baseload - 2,751,782 4,657,201 3,180,032 - 10,589,015

56 Dracut Supply 2 - Swing 4,864,495 5,213,082 3,412,363 4,553,812 6,687,548 4,454,922 29,186,223

57 City Gate Delivered Supply - - - - - - 0

58 LNG Truck 2,789 78,007 1,145,250 489,744 145,874 - 1,861,664

59 Propane Truck - - 480,583 205,590 - - 686,172

60 PNTGS 57,172 80,978 91,288 78,565 67,980 47,842 423,825

61 TGP Supply (Z4) 1,680,994 1,851,361 1,880,082 1,711,534 1,764,652 1,730,046 10,618,669

62 Subtotal Pipeline Volumes 12,863,686 14,738,083 16,503,525 14,622,569 13,205,854 11,935,842 83,869,559

63

64 Storage Gas:

65 TGP Storage 2,979,216 4,833,449 6,262,663 5,245,475 1,982,046 166,743 21,469,593

66

67 Produced Gas:

68 LNG Vapor 2,789 78,007 1,233,521 483,136 74,353 19,700 1,891,505

69 Propane - - 848,753 311,322 - - 1,160,074

70 Subtotal Produced Gas 2,789 78,007 2,082,273 794,457 74,353 19,700 3,051,579

71

72 Less - Gas Refills:

73 LNG Truck (2,789) (78,007) (1,145,250) (489,744) (145,874) - (1,861,664)

74 Propane - - (480,583) (205,590) - - (686,172)

75 TGP Storage Refill (3,521,652) - - - - (1,410,631) (4,932,283)

76 Subtotal Refills (3,524,441) (78,007) (1,625,833) (695,334) (145,874) (1,410,631) (7,480,120)

77

78 Total Sendout Volumes 12,321,250 19,571,532 23,222,629 19,967,167 15,116,379 10,711,653 100,910,611

1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**

2 **d/b/a Liberty Utilities**

3 **Peak 2015 - 2016 Winter Cost of Gas Filing**

4 **Capacity Utilization**

5 **Volumes (Therms)**

6

7

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9

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11 **Pipeline Gas:**

12 Dawn Supply 5,267,474 4,000 7,240,000 73% 5,267,474 4,000 7,240,000 73%

13 Niagara Supply 4,111,942 3,122 5,650,820 73% 4,111,942 3,122 5,650,820 73%

14 TGP Supply (Gulf + Z4) 32,040,841 21,596 39,088,760 82% 31,743,243 21,596 39,088,760 81%

15 Dracut Supply 1 & 2 23,586,142 50,000 90,500,000 26% 39,775,238 50,000 90,500,000 44%

16 LNG Truck 1,862,243 - - - 1,861,664 - - -

17 Propane Truck 691,828 - - - 686,172 - - -

18 PNGTS 423,825 1,000 1,810,000 23% 423,825 1,000 1,810,000 23%

19 Granite Ridge - - - - - - - -

20

21

22 Subtotal Pipeline Volumes 67,984,295 83,869,559

23

24 **Storage Gas:**

25 TGP Storage 29,395,741 25,791,710 114% 21,469,593 25,791,710 83%

26

27 **Produced Gas:**

28 LNG Vapor 1,891,611 1,891,505

29 Propane 691,827.8 1,160,074

30

31 Subtotal Produced Gas 2,583,439 3,051,579

32

33 **Less - Gas Refills:**

34 LNG Truck (1,862,243) (1,861,664)

35 Propane (691,828) (686,172)

36 TGP Storage Refill (5,307,007) (4,932,283)

37

38 Subtotal Refills (7,861,078) (7,480,120)

39

40 Total Sendout Volumes 92,102,397 100,910,611

Schedule 11C

Page 1 of 1

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.

Schedule 11D

2 d/b/a Liberty Utilities

3 Peak 2015 - 2016 Winter Cost of Gas Filing

4

5

Forecast of Upcoming Winter Period

6

Design Day Report

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2015 / 16 Heating Season

8

(Therms)

9

EnergyNorth Natural Gas, Inc.

10

d/b/a Liberty Utilities

11

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Requirements

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Firm Sales 1,134,863

19

Interruptible Sales 0

20

Firm Transportation 383,417

21

Interruptible Transportation 0

22

23

Total Requirements 1,518,280

24

25

26

27

Resources

28

Purchased Pipeline Gas 787,180

29

Underground Storage Gas 281,150

30

Propane Air Production 323,950

31

LNG Produced Gas 126,000

32

Third-Party Supply 0

33

34

Total Resources 1,518,280

35

36

37

Please refer to the ENGI 2013 IRP filing (DG 13-313)

38

for a complete description of the methodology and

39

assumptions used in the derivation of this data.

40

41

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Preparation of this report was supervised by:

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F. Chico DaFonte

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Vice President, Energy Procurement

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51

Note: Forecasted Firm Transportation volumes are for customers
using utility capacity only.

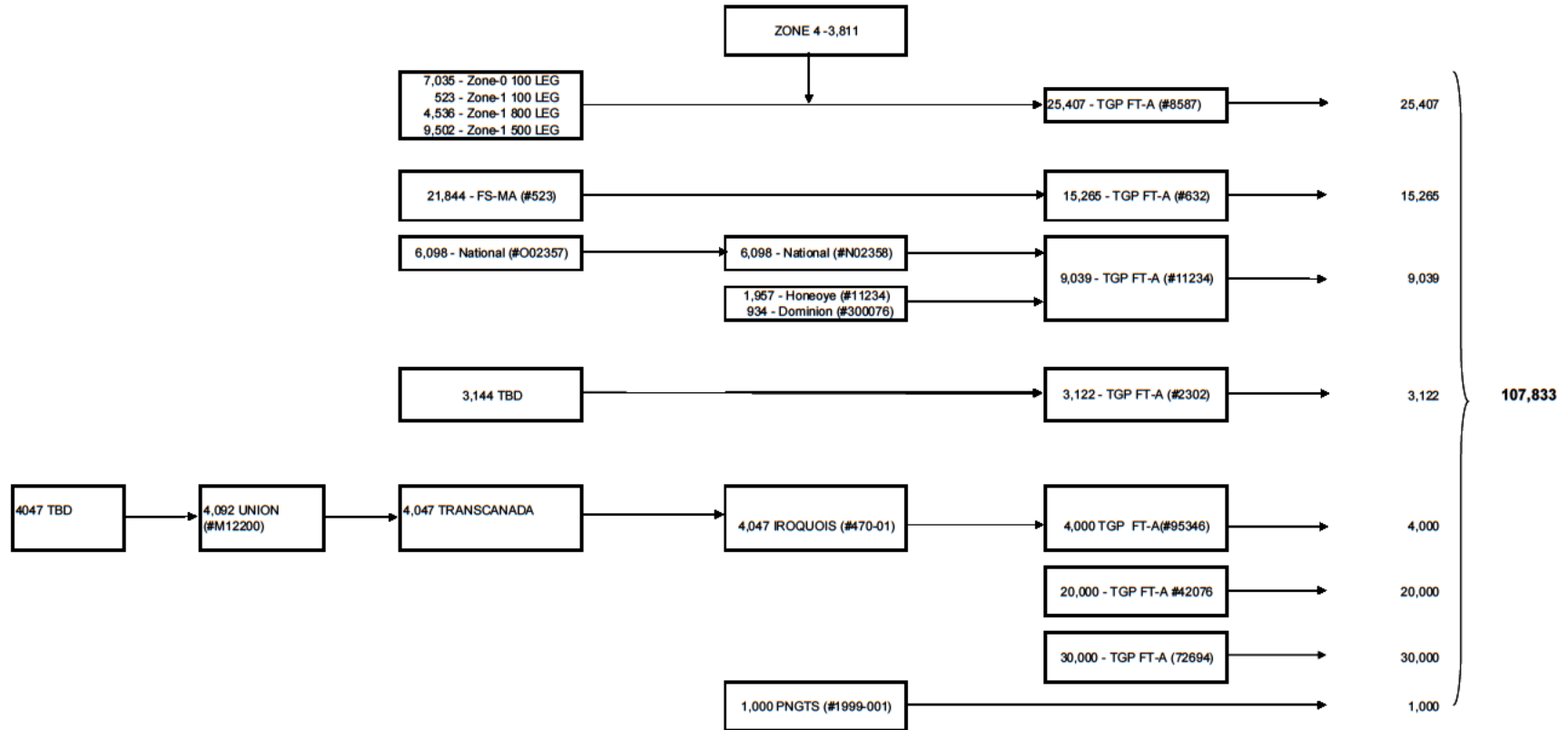
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Schedule 12

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
Peak 2015-2016 Winter Cost of Gas Filing
Transportation Available for Pipeline Supply and Storage
(MMBtu)



LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
Peak 2015-2016 Winter Cost of Gas Filing
Transportation Available for Pipeline Supply and Storage
Agreements for Gas Supply and Transportation

| SOURCE | RATE SCHEDULE | CONTRACT NUMBER | TYPE | MDQ MMBTU | MAQ * MMBTU | EXPIRATION DATE | NOTIFICATION DATE | RENEWAL OPTIONS |
|---|------------------|--------------------|----------------|--------------------|-----------------|------------------------|----------------------|-------------------------|
| Niagara | NA | NA | Supply | 3,144 | 1,147,560 | 3/31/2016 | N/a | Terminates |
| ANE | NA | NA | Supply | 4,047 | 611,097 | Peak Only | N/a | Terminates |
| GDF Suez | FLS | | Liquid Refill | Up to 5 trucks | 250,000 | 3/31/2016 Peak Only | - | Terminates |
| Dracut or Z6 | NA | NA | Supply | Up to 20,000 / day | 1,427,000 | 2/29/2016 | - | Terminates |
| TGP Long-Haul | NA | NA | Supply | 21,596 | 3,908,876 | 4/30/2015 | N/a | Terminates |
| Northern Transport | NA | NA | Trucking | 28,500 Gallons | 900,000 Gallons | | N/a | Terminates |
| Dominion Transmission Incorporated | GSS | 300076 | Storage | 934 | 102,700 | 3/31/2021 | 3/31/2019 | Mutually agreed upon |
| Honeoye Storage Corporation | SS-NY | 11234 | Storage | 1,957 | 245,380 | 3/1/2020 | 12 months notice | Evergreen Provision |
| National Fuel Gas Supply Corporation | FSS | O02358 | Storage | 6,098 | 670,800 | 3/31/2017 | 3/31/2016 | Evergreen Provision |
| National Fuel Gas Supply Corporation | FSST | N02358 | Transportation | 6,098 | 670,800 | 3/31/2017 | 3/31/2016 | Evergreen Provision |
| Iroquois Gas Transmission System | RTS-1 | 47001 | Transportation | 4,047 | 1,477,155 | 11/1/2017 | 10/31/2016 | Evergreen Provision |
| Portland Natural Gas Transmission System | FT 1999-01 | 1999-001 | Transportation | 1,000 | 365,000 | 10/31/2019 | 10/31/2018 | Evergreen Provision |
| Tennessee Gas Pipeline Company | FS-MA | 523 | Storage | 21,844 | 1,560,391 | 10/31/2020 | 10/31/2019 | Evergreen Provision |
| Tennessee Gas Pipeline Company | FTA | 8587 | Transportation | 25,407 | 9,273,555 | 10/31/2020 | 10/31/2019 | Evergreen Provision |
| Tennessee Gas Pipeline Company | FTA | 2302 | Transportation | 3,122 | 1,139,530 | 10/31/2020 | 10/31/2019 | Evergreen Provision |
| Tennessee Gas Pipeline Company | FTA | 632 | Transportation | 15,265 | 5,571,725 | 10/31/2020 | 10/31/2019 | Evergreen Provision |
| Tennessee Gas Pipeline Company | FTA | 11234 | Transportation | 9,039 | 3,299,235 | 10/31/2020 | 10/31/2019 | Evergreen Provision |
| Tennessee Gas Pipeline Company | FTA | 72694 | Transportation | 30,000 | 10,950,000 | 10/31/2029 | 10/31/2029 | Evergreen Provision |
| Tennessee Gas Pipeline Company | FTA | 95346 | Transportation | 4,000 | 1,460,000 | 11/30/2016 | 10/31/2015 | Evergreen Provision |
| Tennessee Gas Pipeline Company | FTA | 42076 | Transportation | 20,000 | 7,300,000 | 10/31/2020 | 10/31/2019 | Evergreen Provision |
| TransCanada Pipeline | FT | | Transportation | 4,047 | 1,477,155 | 10/31/2022 | 4/30/2021 | Evergreen Provision |
| Union Gas Limited | M12 | M12100 | Transportation | 4,092 | 1,493,580 | 10/31/2017 | 10/31/2015 | Evergreen Provision |

* MAQ is calculated on a 365 day calendar year.

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Schedule 13

1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**

2 **Peak 2015-2016 Winter Cost of Gas Filing**

4 **Load Migration From Sales to Transportation in the C&I High and Low Winter Use Classes**

6 **May 2014 - Apr 2015 Normalized Sales and Transportation Volumes (Therms)**

| C&I Rate Classes | Annual Sales | % of Total by Class | % of Sales to Total Volume by Class |
|-----------------------------|---------------------|----------------------------|--|
| G-41 | 15,715,808 | 38.26% | 75.22% |
| G-42 | 14,617,493 | 35.59% | 45.41% |
| G-43 | 2,582,838 | 6.29% | 22.45% |
| G-51 | 2,717,783 | 6.62% | 66.57% |
| G-52 | 2,493,304 | 6.07% | 31.95% |
| G-53 | 2,054,744 | 5.00% | 19.91% |
| G-54 | 893,924 | 2.18% | 5.08% |
| Total C/I | 41,075,893 | 100.00% | |

| | Annual Transportation | % of Total by Class | % of Transportation to Total Volume by Class |
|-----------|------------------------------|----------------------------|---|
| G-41 | 5,177,626 | 8.18% | 24.78% |
| G-42 | 17,575,734 | 27.75% | 54.59% |
| G-43 | 8,924,088 | 14.09% | 77.55% |
| G-51 | 1,364,913 | 2.16% | 33.43% |
| G-52 | 5,310,609 | 8.39% | 68.05% |
| G-53 | 8,267,983 | 13.06% | 80.09% |
| G-54 | 16,705,479 | 26.38% | 94.92% |
| Total C/I | 63,326,431 | 100.00% | |

| Sales & Transportation | Total | % of Total by Class | |
|-----------------------------------|--------------|----------------------------|---------|
| G-41 | 20,893,433 | 20.01% | 100.00% |
| G-42 | 32,193,227 | 30.84% | 100.00% |
| G-43 | 11,506,926 | 11.02% | 100.00% |
| G-51 | 4,082,696 | 3.91% | 100.00% |
| G-52 | 7,803,913 | 7.47% | 100.00% |
| G-53 | 10,322,727 | 9.89% | 100.00% |
| G-54 | 17,599,402 | 16.86% | 100.00% |
| Total C/I | 104,402,324 | 100.00% | |

Schedule 14

1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**

2 **Peak 2015-2016 Winter Cost of Gas Filing**

3

4 **Delivered Costs of Winter Supplies to Pipeline Delivered Supplies from the Prior Year**

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| | Off-Peak | Peak | Total | |
|--|-----------------|---------------|-----------------|------------|
| | May 14 - Oct 14 | Nov 14-Apr 15 | May 13 - Apr 14 | |
| | (Therms) | (Therms) | (Therms) | |
| Pipeline Deliveries | 26,228,650 | 71,208,480 | 97,437,130 | |
| All Others | - | 26,144,120 | 26,144,120 | |
| | 26,228,650 | 97,352,600 | 123,581,250 | |
| Total Winter Supplies | | | | Ratio |
| Total Pipeline Deliveries | | | | 97,352,600 |
| | | | | 97,437,130 |
| Ratio Winter Supplies to Pipeline Supplies | | | | 0.999 |

Schedule 15

1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**

2 **Peak 2015-2016 Winter Cost of Gas Filing**

3

4 **July and August Consumption of C&I High and Low Winter Classes as a Percentage of Their Annual Consumption**

5

6

7

C&I Sales

8

Normalized (Therms) Jul-14 Aug-14 Jul - Aug Total Total Annual % of Jul-Aug to Total

9

(a) (b) (c) (e)=(c)+(d) (f) (g)=(e)/(f)

10 G-41 229,458 220,497 449,956 15,715,808 2.86%

11 G-42 262,322 502,949 765,272 14,617,493 5.24%

12 G-43 76,720 275,044 351,764 2,582,838 13.62%

13 G-51 123,487 143,054 266,540 2,717,783 9.81%

14 G-52 128,845 125,267 254,112 2,493,304 10.19%

15 G-53 49,278 45,322 94,600 2,054,744 4.60%

16 G-54 34,551 33,382 67,933 893,924 7.60%

17

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19 Total C/I 904,662 1,345,516 2,250,178 41,075,893 5.48%

20

21

Schedule 16

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.
2 Peak 2015-2016 Winter Cost of Gas Filing

3
4 Storage Inventory, Underground, LPG and LNG including Calculation of Money Pool Interest Costs Associated with Natural Gas

5
6 Underground Storage Gas

| | | May-15 (Actual) | Jun-15 (Actual) | Jul-15 (Actual) | Aug-15 (Estimate) | Sep-15 (Estimate) | Oct-15 (Estimate) | Nov-15 (Estimate) | Dec-15 (Estimate) | Jan-16 (Estimate) | Feb-16 (Estimate) | Mar-16 (Estimate) | Apr-16 (Estimate) | Total |
|---|---|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|
| Beginning Balance (MMBtu) | | 388,143 | 690,035 | 932,089 | 1,210,299 | 1,483,328 | 1,756,357 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (575,647) | 388,143 |
| Injections (MMBtu) | Sch 11A In 37 /10 | 307,571 | 256,483 | 284,673 | 273,029 | 273,029 | 273,029 | - | - | - | - | - | 175,537 | 1,843,351 |
| Subtotal | | 695,714 | 946,518 | 1,216,762 | 1,483,328 | 1,756,357 | 2,029,386 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (400,109) | |
| Storage Sale | | - | - | - | - | - | - | - | - | - | - | - | - | |
| Withdrawals (MMBtu) | Sch 11A In 27 /10 | (5,679) | (14,429) | (6,463) | - | - | - | (458,561) | (469,007) | (507,516) | (511,037) | (658,912) | (334,541) | (2,966,145) |
| Ending Balance (MMBtu) | | 690,035 | 932,089 | 1,210,299 | 1,483,328 | 1,756,357 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (575,647) | (734,651) | (734,651) |
| Beginning Balance | | \$ 1,192,503 | \$ 1,671,199 | \$ 2,097,148 | \$ 2,492,339 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (1,078,708) | 1,192,503 |
| Injections | In 11 * In 36 | 482,360 | 430,490 | 401,566 | 436,846 | 436,846 | 436,846 | - | - | - | - | - | 351,075 | 2,976,030 |
| Subtotal | | \$ 1,674,863 | \$ 2,101,689 | \$ 2,498,715 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (727,633) | |
| Storage Sale | | \$ - | - | - | - | - | - | - | - | - | - | - | - | |
| Withdrawals | In 17 * In 34 | \$ (3,664) | \$ (4,540) | \$ (6,375) | \$ - | \$ - | \$ - | \$ (859,300) | \$ (878,874) | \$ (951,038) | \$ (957,636) | \$ (1,234,739) | \$ (608,392) | (5,504,558) |
| Ending Balance | | \$ 1,671,199 | \$ 2,097,148 | \$ 2,492,339 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (1,078,708) | \$ (1,336,025) | (1,336,025) |
| Average Rate For Withdrawals | In 22 /In 9 | \$2.4074 | \$2.2204 | \$2.0536 | \$1.9747 | \$1.9165 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8186 | |
| TGP Storage Rate for Injections | Actual or NYMEX plus TGP Transportation | \$1.5683 | \$1.6784 | \$1.4106 | \$1.6000 | \$1.6000 | \$1.6000 | \$1.6000 | \$3.4383 | \$3.5435 | \$3.5378 | \$3.4934 | \$2.0000 | |
| For Informational Purposes | | | | | | | | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Total |
| Summer Hedge Contracts - Vols Dth | | | | | | | | - | - | - | - | - | - | - |
| Average Hedge Price | | | | | | | | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | |
| NYMEX | | | | | | | | \$2.9163 | \$3.0743 | \$3.1769 | \$3.1714 | \$3.1281 | \$2.9695 | |
| Hedged Volumes at Hedged Price | | | | | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Less Hedged Volumes at NYMEX | | | | | | | | - | - | - | - | - | - | - |
| Hedge (Savings)/Loss | | | | | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Month Dollar Average | In (22 + In 32) /2 | | | | \$ 2,710,762 | \$ 3,147,609 | \$ 3,584,455 | \$ 3,373,229 | \$ 2,504,142 | \$ 1,589,186 | \$ 634,849 | \$ (461,339) | \$ (1,207,367) | |
| Money Pool Finance Rate (per Nov 10 - Apr 11 Actuals) | | | | | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Inventory Finance Charge | In 47 * In 49 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | - |
| Financial Expenses | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Inventory Finance Charges | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | - |

1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**

2 **Peak 2015-2016 Winter Cost of Gas Filing**

3

4 **July and August Consumption of C&I High and Low Winter Classes as a Percentage of Their Annual Consumption**

5

6

7

C&I Sales

8

Normalized (Therms) Jul-14 Aug-14 Jul - Aug Total Total Annual % of Jul-Aug to Total

9

(a) (b) (c) (e)=(c)+(d) (f) (g)=(e)/(f)

10 G-41 229,458 220,497 449,956 15,715,808 2.86%

11 G-42 262,322 502,949 765,272 14,617,493 5.24%

12 G-43 76,720 275,044 351,764 2,582,838 13.62%

13 G-51 123,487 143,054 266,540 2,717,783 9.81%

14 G-52 128,845 125,267 254,112 2,493,304 10.19%

15 G-53 49,278 45,322 94,600 2,054,744 4.60%

16 G-54 34,551 33,382 67,933 893,924 7.60%

17

18

19 Total C/I 904,662 1,345,516 2,250,178 41,075,893 5.48%

20

21

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.
2 Peak 2015-2016 Winter Cost of Gas Filing

3
4 Storage Inventory, Underground, LPG and LNG including Calculation of Money Pool Interest Costs Associated with Natural Gas

5
6 Underground Storage Gas

| | | May-15 (Actual) | Jun-15 (Actual) | Jul-15 (Actual) | Aug-15 (Estimate) | Sep-15 (Estimate) | Oct-15 (Estimate) | Nov-15 (Estimate) | Dec-15 (Estimate) | Jan-16 (Estimate) | Feb-16 (Estimate) | Mar-16 (Estimate) | Apr-16 (Estimate) | Total |
|---|---|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|
| Beginning Balance (MMBtu) | | 388,143 | 690,035 | 932,089 | 1,210,299 | 1,483,328 | 1,756,357 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (575,647) | 388,143 |
| Injections (MMBtu) | Sch 11A In 37 /10 | 307,571 | 256,483 | 284,673 | 273,029 | 273,029 | 273,029 | - | - | - | - | - | 175,537 | 1,843,351 |
| Subtotal | | 695,714 | 946,518 | 1,216,762 | 1,483,328 | 1,756,357 | 2,029,386 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (400,109) | |
| Storage Sale | | - | - | - | - | - | - | - | - | - | - | - | - | |
| Withdrawals (MMBtu) | Sch 11A In 27 /10 | (5,679) | (14,429) | (6,463) | - | - | - | (458,561) | (469,007) | (507,516) | (511,037) | (658,912) | (334,541) | (2,966,145) |
| Ending Balance (MMBtu) | | 690,035 | 932,089 | 1,210,299 | 1,483,328 | 1,756,357 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (575,647) | (734,651) | (734,651) |
| Beginning Balance | | \$ 1,192,503 | \$ 1,671,199 | \$ 2,097,148 | \$ 2,492,339 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (1,078,708) | 1,192,503 |
| Injections | In 11 * In 36 | 482,360 | 430,490 | 401,566 | 436,846 | 436,846 | 436,846 | - | - | - | - | - | 351,075 | 2,976,030 |
| Subtotal | | \$ 1,674,863 | \$ 2,101,689 | \$ 2,498,715 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (727,633) | |
| Storage Sale | | \$ - | - | - | - | - | - | - | - | - | - | - | - | |
| Withdrawals | In 17 * In 34 | \$ (3,664) | \$ (4,540) | \$ (6,375) | \$ - | \$ - | \$ - | \$ (859,300) | \$ (878,874) | \$ (951,038) | \$ (957,636) | \$ (1,234,739) | \$ (608,392) | (5,504,558) |
| Ending Balance | | \$ 1,671,199 | \$ 2,097,148 | \$ 2,492,339 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (1,078,708) | \$ (1,336,025) | (1,336,025) |
| Average Rate For Withdrawals | In 22 /In 9 | \$2.4074 | \$2.2204 | \$2.0536 | \$1.9747 | \$1.9165 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8186 | |
| TGP Storage Rate for Injections | Actual or NYMEX plus TGP Transportation | \$1.5683 | \$1.6784 | \$1.4106 | \$1.6000 | \$1.6000 | \$1.6000 | \$1.6000 | \$3.4383 | \$3.5435 | \$3.5378 | \$3.4934 | \$2.0000 | |
| For Informational Purposes | | | | | | | | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Total |
| Summer Hedge Contracts - Vols Dth | | | | | | | | - | - | - | - | - | - | - |
| Average Hedge Price | | | | | | | | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | |
| NYMEX | | | | | | | | \$2.9163 | \$3.0743 | \$3.1769 | \$3.1714 | \$3.1281 | \$2.9695 | |
| Hedged Volumes at Hedged Price | | | | | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Less Hedged Volumes at NYMEX | | | | | | | | - | - | - | - | - | - | - |
| Hedge (Savings)/Loss | | | | | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Month Dollar Average | In (22 + In 32) /2 | | | | \$ 2,710,762 | \$ 3,147,609 | \$ 3,584,455 | \$ 3,373,229 | \$ 2,504,142 | \$ 1,589,186 | \$ 634,849 | \$ (461,339) | \$ (1,207,367) | |
| Money Pool Finance Rate (per Nov 10 - Apr 11 Actuals) | | | | | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Inventory Finance Charge | In 47 * In 49 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | - |
| Financial Expenses | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Inventory Finance Charges | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | - |

| | | | | | | | | | | | | | | | |
|----|---|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|------------|
| 39 | | | | | | | | | | | | | | | |
| 40 | Liquid Propane Gas (LPG) | | | | | | | | | | | | | | |
| 41 | | | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Total |
| 42 | | | (Actual) | (Actual) | (Actual) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | |
| 43 | Beginning Balance | | 56,324 | 66,458 | 97,541 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 56,324 |
| 44 | | | | | | | | | | | | | | | |
| 45 | Injections | Sch 11A In 36 /10 | 10,134 | 46,917 | - | - | - | - | - | - | 69,183 | - | - | - | 126,234 |
| 46 | | | | | | | | | | | | | | | |
| 47 | Subtotal | | 66,458 | 113,375 | 97,541 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 166,466 | 97,283 | 97,283 | 97,283 | |
| 48 | | | | | | | | | | | | | | | |
| 49 | Withdrawals | Sch 11A In 31 /10 | - | (15,834) | (258) | - | - | - | - | - | (69,183) | - | - | - | (85,275) |
| 50 | | | | | | | | | | | | | | | |
| 51 | Adjustment for change in temperature | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 52 | Adjustment for Transfer | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 53 | Ending Balance | | 66,458 | 97,541 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 |
| 54 | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | |
| 56 | Beginning Balance | | \$ 914,904 | \$ 1,066,509 | \$ 1,204,518 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 702,061 | \$ 702,061 | \$ 702,061 | \$ 914,904 |
| 57 | | | | | | | | | | | | | | | |
| 58 | Injections | In 45 * In 68 | 151,605 | 392,109 | - | - | - | - | - | - | - | - | - | - | 543,714 |
| 59 | | | | | | | | | | | | | | | |
| 60 | Subtotal | | \$ 1,066,509 | \$ 1,458,618 | \$ 1,204,518 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 702,061 | \$ 702,061 | \$ 702,061 | |
| 61 | | | | | | | | | | | | | | | |
| 62 | Withdrawals | In 51 * In 66 | - | (254,101) | (3,186) | - | - | - | - | - | (499,271) | - | - | - | (756,557) |
| 63 | | | | | | | | | | | | | | | |
| 64 | Ending Balance | | \$ 1,066,509 | \$ 1,204,518 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 702,061 | \$ 702,061 | \$ 702,061 | \$ 702,061 | \$ 702,061 |
| 65 | | | | | | | | | | | | | | | |
| 66 | Average Rate For Withdrawals | | \$16.0479 | \$12.8654 | \$12.3488 | \$12.3488 | \$12.3488 | \$12.3488 | \$12.3488 | \$12.3488 | \$7.2167 | \$7.2167 | \$7.2167 | \$7.2167 | |
| 67 | | | | | | | | | | | | | | | |
| 68 | Propane Rate for | | | | | | | | | | | | | | |
| 69 | Injections | Actual or Sch. 6, In 151 * 10 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | |
| 70 | | | | | | | | | | | | | | | |
| 71 | Month Dollar Average | In (56 + In 64) /2 | | | | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 951,696 | \$ 702,061 | \$ 702,061 | \$ 702,061 | |
| 72 | | | | | | | | | | | | | | | |
| 73 | Money Pool Finance Rate (per Nov 10 - Apr 11 Actuals) | | | | | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 74 | | | | | | | | | | | | | | | |
| 75 | Inventory Finance Charge | In 71 * In 73 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ |
| 76 | | | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | | | | |

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.
2 Peak 2015-2016 Winter Cost of Gas Filing

3
4 Storage Inventory, Underground, LPG and LNG including Calculation of Money Pool Interest Costs Associated with Natural Gas

5
6 Underground Storage Gas

| | | May-15 (Actual) | Jun-15 (Actual) | Jul-15 (Actual) | Aug-15 (Estimate) | Sep-15 (Estimate) | Oct-15 (Estimate) | Nov-15 (Estimate) | Dec-15 (Estimate) | Jan-16 (Estimate) | Feb-16 (Estimate) | Mar-16 (Estimate) | Apr-16 (Estimate) | Total |
|---|---|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|
| Beginning Balance (MMBtu) | | 388,143 | 690,035 | 932,089 | 1,210,299 | 1,483,328 | 1,756,357 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (575,647) | 388,143 |
| Injections (MMBtu) | Sch 11A In 37 /10 | 307,571 | 256,483 | 284,673 | 273,029 | 273,029 | 273,029 | - | - | - | - | - | 175,537 | 1,843,351 |
| Subtotal | | 695,714 | 946,518 | 1,216,762 | 1,483,328 | 1,756,357 | 2,029,386 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (400,109) | |
| Storage Sale | | - | - | - | - | - | - | - | - | - | - | - | - | |
| Withdrawals (MMBtu) | Sch 11A In 27 /10 | (5,679) | (14,429) | (6,463) | - | - | - | (458,561) | (469,007) | (507,516) | (511,037) | (658,912) | (334,541) | (2,966,145) |
| Ending Balance (MMBtu) | | 690,035 | 932,089 | 1,210,299 | 1,483,328 | 1,756,357 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (575,647) | (734,651) | (734,651) |
| Beginning Balance | | \$ 1,192,503 | \$ 1,671,199 | \$ 2,097,148 | \$ 2,492,339 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (1,078,708) | 1,192,503 |
| Injections | In 11 * In 36 | 482,360 | 430,490 | 401,566 | 436,846 | 436,846 | 436,846 | - | - | - | - | - | 351,075 | 2,976,030 |
| Subtotal | | \$ 1,674,863 | \$ 2,101,689 | \$ 2,498,715 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (727,633) | |
| Storage Sale | | \$ - | - | - | - | - | - | - | - | - | - | - | - | |
| Withdrawals | In 17 * In 34 | \$ (3,664) | \$ (4,540) | \$ (6,375) | \$ - | \$ - | \$ - | \$ (859,300) | \$ (878,874) | \$ (951,038) | \$ (957,636) | \$ (1,234,739) | \$ (608,392) | (5,504,558) |
| Ending Balance | | \$ 1,671,199 | \$ 2,097,148 | \$ 2,492,339 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (1,078,708) | \$ (1,336,025) | (1,336,025) |
| Average Rate For Withdrawals | In 22 /In 9 | \$2.4074 | \$2.2204 | \$2.0536 | \$1.9747 | \$1.9165 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8186 | |
| TGP Storage Rate for Injections | Actual or NYMEX plus TGP Transportation | \$1.5683 | \$1.6784 | \$1.4106 | \$1.6000 | \$1.6000 | \$1.6000 | \$1.6000 | \$3.4383 | \$3.5435 | \$3.5378 | \$3.4934 | \$2.0000 | |
| For Informational Purposes | | | | | | | | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Total |
| Summer Hedge Contracts - Vols Dth | | | | | | | | - | - | - | - | - | - | - |
| Average Hedge Price | | | | | | | | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | |
| NYMEX | | | | | | | | \$2.9163 | \$3.0743 | \$3.1769 | \$3.1714 | \$3.1281 | \$2.9695 | |
| Hedged Volumes at Hedged Price | | | | | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Less Hedged Volumes at NYMEX | | | | | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Hedge (Savings)/Loss | | | | | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Month Dollar Average | In (22 + In 32) /2 | | | | \$ 2,710,762 | \$ 3,147,609 | \$ 3,584,455 | \$ 3,373,229 | \$ 2,504,142 | \$ 1,589,186 | \$ 634,849 | \$ (461,339) | \$ (1,207,367) | |
| Money Pool Finance Rate (per Nov 10 - Apr 11 Actuals) | | | | | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Inventory Finance Charge | In 47 * In 49 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | - |
| Financial Expenses | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Inventory Finance Charges | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | - |

1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**

2 **Peak 2015-2016 Winter Cost of Gas Filing**

3

4 **July and August Consumption of C&I High and Low Winter Classes as a Percentage of Their Annual Consumption**

5

6

7

C&I Sales

8

Normalized (Therms) Jul-14 Aug-14 Jul - Aug Total Total Annual % of Jul-Aug to Total

9

(a) (b) (c) (e)=(c)+(d) (f) (g)=(e)/(f)

10 G-41 229,458 220,497 449,956 15,715,808 2.86%

11 G-42 262,322 502,949 765,272 14,617,493 5.24%

12 G-43 76,720 275,044 351,764 2,582,838 13.62%

13 G-51 123,487 143,054 266,540 2,717,783 9.81%

14 G-52 128,845 125,267 254,112 2,493,304 10.19%

15 G-53 49,278 45,322 94,600 2,054,744 4.60%

16 G-54 34,551 33,382 67,933 893,924 7.60%

17

18

19 Total C/I 904,662 1,345,516 2,250,178 41,075,893 5.48%

20

21

1 Liberty Utilities (EnergyNorth Natural Gas) Corp.
2 Peak 2015-2016 Winter Cost of Gas Filing

3
4 Storage Inventory, Underground, LPG and LNG including Calculation of Money Pool Interest Costs Associated with Natural Gas

5
6 Underground Storage Gas

| | | May-15 (Actual) | Jun-15 (Actual) | Jul-15 (Actual) | Aug-15 (Estimate) | Sep-15 (Estimate) | Oct-15 (Estimate) | Nov-15 (Estimate) | Dec-15 (Estimate) | Jan-16 (Estimate) | Feb-16 (Estimate) | Mar-16 (Estimate) | Apr-16 (Estimate) | Total |
|---|---|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|
| Beginning Balance (MMBtu) | | 388,143 | 690,035 | 932,089 | 1,210,299 | 1,483,328 | 1,756,357 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (575,647) | 388,143 |
| Injections (MMBtu) | Sch 11A In 37 /10 | 307,571 | 256,483 | 284,673 | 273,029 | 273,029 | 273,029 | - | - | - | - | - | 175,537 | 1,843,351 |
| Subtotal | | 695,714 | 946,518 | 1,216,762 | 1,483,328 | 1,756,357 | 2,029,386 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (400,109) | |
| Storage Sale | | - | - | - | - | - | - | - | - | - | - | - | - | |
| Withdrawals (MMBtu) | Sch 11A In 27 /10 | (5,679) | (14,429) | (6,463) | - | - | - | (458,561) | (469,007) | (507,516) | (511,037) | (658,912) | (334,541) | (2,966,145) |
| Ending Balance (MMBtu) | | 690,035 | 932,089 | 1,210,299 | 1,483,328 | 1,756,357 | 2,029,386 | 1,570,825 | 1,101,819 | 594,302 | 83,265 | (575,647) | (734,651) | (734,651) |
| Beginning Balance | | \$ 1,192,503 | \$ 1,671,199 | \$ 2,097,148 | \$ 2,492,339 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (1,078,708) | 1,192,503 |
| Injections | In 11 * In 36 | 482,360 | 430,490 | 401,566 | 436,846 | 436,846 | 436,846 | - | - | - | - | - | 351,075 | 2,976,030 |
| Subtotal | | \$ 1,674,863 | \$ 2,101,689 | \$ 2,498,715 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (727,633) | |
| Storage Sale | | \$ - | - | - | - | - | - | - | - | - | - | - | - | |
| Withdrawals | In 17 * In 34 | \$ (3,664) | \$ (4,540) | \$ (6,375) | \$ - | \$ - | \$ - | \$ (859,300) | \$ (878,874) | \$ (951,038) | \$ (957,636) | \$ (1,234,739) | \$ (608,392) | (5,504,558) |
| Ending Balance | | \$ 1,671,199 | \$ 2,097,148 | \$ 2,492,339 | \$ 2,929,186 | \$ 3,366,032 | \$ 3,802,878 | \$ 2,943,579 | \$ 2,064,705 | \$ 1,113,667 | \$ 156,031 | \$ (1,078,708) | \$ (1,336,025) | (1,336,025) |
| Average Rate For Withdrawals | In 22 /In 9 | \$2.4074 | \$2.2204 | \$2.0536 | \$1.9747 | \$1.9165 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8739 | \$1.8186 | |
| TGP Storage Rate for Injections | Actual or NYMEX plus TGP Transportation | \$1.5683 | \$1.6784 | \$1.4106 | \$1.6000 | \$1.6000 | \$1.6000 | \$1.6000 | \$3.4383 | \$3.5435 | \$3.5378 | \$3.4934 | \$2.0000 | |
| For Informational Purposes | | | | | | | | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Total |
| Summer Hedge Contracts - Vols Dth | | | | | | | | - | - | - | - | - | - | - |
| Average Hedge Price | | | | | | | | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | |
| NYMEX | | | | | | | | \$2.9163 | \$3.0743 | \$3.1769 | \$3.1714 | \$3.1281 | \$2.9695 | |
| Hedged Volumes at Hedged Price | | | | | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Less Hedged Volumes at NYMEX | | | | | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Hedge (Savings)/Loss | | | | | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Month Dollar Average | In (22 + In 32) /2 | | | | \$ 2,710,762 | \$ 3,147,609 | \$ 3,584,455 | \$ 3,373,229 | \$ 2,504,142 | \$ 1,589,186 | \$ 634,849 | \$ (461,339) | \$ (1,207,367) | |
| Money Pool Finance Rate (per Nov 10 - Apr 11 Actuals) | | | | | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Inventory Finance Charge | In 47 * In 49 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | - |
| Financial Expenses | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Inventory Finance Charges | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | - |

| | | | | | | | | | | | | | | | |
|----|---|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|------------|
| 39 | | | | | | | | | | | | | | | |
| 40 | Liquid Propane Gas (LPG) | | | | | | | | | | | | | | |
| 41 | | | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Total |
| 42 | | | (Actual) | (Actual) | (Actual) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | |
| 43 | Beginning Balance | | 56,324 | 66,458 | 97,541 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 56,324 |
| 44 | | | | | | | | | | | | | | | |
| 45 | Injections | Sch 11A In 36 /10 | 10,134 | 46,917 | - | - | - | - | - | - | 69,183 | - | - | - | 126,234 |
| 46 | | | | | | | | | | | | | | | |
| 47 | Subtotal | | 66,458 | 113,375 | 97,541 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 166,466 | 97,283 | 97,283 | 97,283 | |
| 48 | | | | | | | | | | | | | | | |
| 49 | Withdrawals | Sch 11A In 31 /10 | - | (15,834) | (258) | - | - | - | - | - | (69,183) | - | - | - | (85,275) |
| 50 | | | | | | | | | | | | | | | |
| 51 | Adjustment for change in temperature | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 52 | Adjustment for Transfer | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 53 | Ending Balance | | 66,458 | 97,541 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 |
| 54 | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | |
| 56 | Beginning Balance | | \$ 914,904 | \$ 1,066,509 | \$ 1,204,518 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 702,061 | \$ 702,061 | \$ 702,061 | \$ 914,904 |
| 57 | | | | | | | | | | | | | | | |
| 58 | Injections | In 45 * In 68 | 151,605 | 392,109 | - | - | - | - | - | - | - | - | - | - | 543,714 |
| 59 | | | | | | | | | | | | | | | |
| 60 | Subtotal | | \$ 1,066,509 | \$ 1,458,618 | \$ 1,204,518 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 702,061 | \$ 702,061 | \$ 702,061 | |
| 61 | | | | | | | | | | | | | | | |
| 62 | Withdrawals | In 51 * In 66 | - | (254,101) | (3,186) | - | - | - | - | - | (499,271) | - | - | - | (756,557) |
| 63 | | | | | | | | | | | | | | | |
| 64 | Ending Balance | | \$ 1,066,509 | \$ 1,204,518 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 702,061 | \$ 702,061 | \$ 702,061 | \$ 702,061 | \$ 702,061 |
| 65 | | | | | | | | | | | | | | | |
| 66 | Average Rate For Withdrawals | | \$16.0479 | \$12.8654 | \$12.3488 | \$12.3488 | \$12.3488 | \$12.3488 | \$12.3488 | \$12.3488 | \$7.2167 | \$7.2167 | \$7.2167 | \$7.2167 | |
| 67 | | | | | | | | | | | | | | | |
| 68 | Propane Rate for | | | | | | | | | | | | | | |
| 69 | Injections | Actual or Sch. 6, In 151 * 10 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | |
| 70 | | | | | | | | | | | | | | | |
| 71 | Month Dollar Average | In (56 + In 64) /2 | | | | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 951,696 | \$ 702,061 | \$ 702,061 | \$ 702,061 | |
| 72 | | | | | | | | | | | | | | | |
| 73 | Money Pool Finance Rate (per Nov 10 - Apr 11 Actuals) | | | | | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 74 | | | | | | | | | | | | | | | |
| 75 | Inventory Finance Charge | In 71 * In 73 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ |
| 76 | | | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|----|---|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|------------|
| 39 | | | | | | | | | | | | | | | |
| 40 | Liquid Propane Gas (LPG) | | | | | | | | | | | | | | |
| 41 | | | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Total |
| 42 | | | (Actual) | (Actual) | (Actual) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | |
| 43 | Beginning Balance | | 56,324 | 66,458 | 97,541 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 56,324 |
| 44 | | | | | | | | | | | | | | | |
| 45 | Injections | Sch 11A In 36 /10 | 10,134 | 46,917 | - | - | - | - | - | - | 69,183 | - | - | - | 126,234 |
| 46 | | | | | | | | | | | | | | | |
| 47 | Subtotal | | 66,458 | 113,375 | 97,541 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 166,466 | 97,283 | 97,283 | 97,283 | |
| 48 | | | | | | | | | | | | | | | |
| 49 | Withdrawals | Sch 11A In 31 /10 | - | (15,834) | (258) | - | - | - | - | - | (69,183) | - | - | - | (85,275) |
| 50 | | | | | | | | | | | | | | | |
| 51 | Adjustment for change in temperature | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 52 | Adjustment for Transfer | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 53 | Ending Balance | | 66,458 | 97,541 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 | 97,283 |
| 54 | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | |
| 56 | Beginning Balance | | \$ 914,904 | \$ 1,066,509 | \$ 1,204,518 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 702,061 | \$ 702,061 | \$ 702,061 | \$ 914,904 |
| 57 | | | | | | | | | | | | | | | |
| 58 | Injections | In 45 * In 68 | 151,605 | 392,109 | - | - | - | - | - | - | - | - | - | - | 543,714 |
| 59 | | | | | | | | | | | | | | | |
| 60 | Subtotal | | \$ 1,066,509 | \$ 1,458,618 | \$ 1,204,518 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 702,061 | \$ 702,061 | \$ 702,061 | |
| 61 | | | | | | | | | | | | | | | |
| 62 | Withdrawals | In 51 * In 66 | - | (254,101) | (3,186) | - | - | - | - | - | (499,271) | - | - | - | (756,557) |
| 63 | | | | | | | | | | | | | | | |
| 64 | Ending Balance | | \$ 1,066,509 | \$ 1,204,518 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 702,061 | \$ 702,061 | \$ 702,061 | \$ 702,061 | \$ 702,061 |
| 65 | | | | | | | | | | | | | | | |
| 66 | Average Rate For Withdrawals | | \$16.0479 | \$12.8654 | \$12.3488 | \$12.3488 | \$12.3488 | \$12.3488 | \$12.3488 | \$12.3488 | \$7.2167 | \$7.2167 | \$7.2167 | \$7.2167 | |
| 67 | | | | | | | | | | | | | | | |
| 68 | Propane Rate for | | | | | | | | | | | | | | |
| 69 | Injections | Actual or Sch. 6, In 151 * 10 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | |
| 70 | | | | | | | | | | | | | | | |
| 71 | Month Dollar Average | In (56 + In 64) /2 | | | | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 1,201,332 | \$ 951,696 | \$ 702,061 | \$ 702,061 | \$ 702,061 | |
| 72 | | | | | | | | | | | | | | | |
| 73 | Money Pool Finance Rate (per Nov 10 - Apr 11 Actuals) | | | | | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 74 | | | | | | | | | | | | | | | |
| 75 | Inventory Finance Charge | In 71 * In 73 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ |
| 76 | | | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|-----|---|-------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|-------------|
| 71 | | | | | | | | | | | | | | | |
| 72 | Liquid Natural Gas (LNG) | | | | | | | | | | | | | | |
| 73 | | | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | Total |
| 74 | | | (Actual) | (Actual) | (Actual) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | |
| 75 | Beginning Balance | | 10,798 | 8,312 | 6,674 | 10,259 | 10,259 | 10,259 | 10,259 | 10,259 | 10,259 | 1,432 | 1,432 | 9,292 | 10,798 |
| 76 | Injections | Sch 11A In 35 /10 | - | - | 4,566 | - | - | - | 279 | 297 | 108,339 | 69,166 | 8,143 | - | 190,790 |
| 77 | | | | | | | | | | | | | | | |
| 78 | Subtotal | | 10,798 | 8,312 | 11,240 | 10,259 | 10,259 | 10,259 | 10,538 | 10,556 | 118,598 | 70,598 | 9,575 | 9,292 | |
| 79 | | | | | | | | | | | | | | | |
| 80 | Withdrawals | Sch 11A In 30 /10 | (2,486) | (1,638) | (981) | - | - | - | (279) | (297) | (117,166) | (69,166) | (283) | (1,970) | (194,266) |
| 81 | | | | | | | | | | | | | | | |
| 82 | Ending Balance | | 8,312 | 6,674 | 10,259 | 10,259 | 10,259 | 10,259 | 10,259 | 10,259 | 1,432 | 1,432 | 9,292 | 7,322 | 7,322 |
| 83 | | | | | | | | | | | | | | | |
| 84 | | | | | | | | | | | | | | | |
| 85 | Beginning Balance | | \$ 144,434 | \$ 110,775 | \$ 88,937 | \$ 125,197 | \$ 125,197 | \$ 125,197 | \$ 125,197 | \$ 126,761 | \$ 125,971 | \$ 17,934 | \$ 17,753 | \$ 161,015 | \$ 144,434 |
| 86 | | | | | | | | | | | | | | | |
| 87 | Injections | In 76 * In 97 | - | - | 48,363 | - | - | - | 5,009 | 2,859 | 1,359,324 | 857,316 | 148,170 | - | 2,421,042 |
| 88 | | | | | | | | | | | | | | | |
| 89 | Subtotal | | \$ 144,434 | \$ 110,775 | \$ 137,300 | \$ 125,197 | \$ 125,197 | \$ 125,197 | \$ 130,206 | \$ 129,620 | \$ 1,485,295 | \$ 875,249 | \$ 165,923 | \$ 161,015 | |
| 90 | | | | | | | | | | | | | | | |
| 91 | Withdrawals | In 80 * In 95 | (33,659) | (21,838) | (12,103) | - | - | - | (3,446) | (3,649) | (1,467,361) | (857,496) | (4,908) | (34,135) | (2,438,596) |
| 92 | | | | | | | | | | | | | | | |
| 93 | Ending Balance | | \$ 110,775 | \$ 88,937 | \$ 125,197 | \$ 125,197 | \$ 125,197 | \$ 125,197 | \$ 126,761 | \$ 125,971 | \$ 17,934 | \$ 17,753 | \$ 161,015 | \$ 126,880 | \$ 126,880 |
| 94 | | | | | | | | | | | | | | | |
| 95 | Average Rate For Withdrawals | | \$13.3759 | \$13.3271 | \$12.2153 | \$12.2036 | \$12.2036 | \$12.2036 | \$12.3560 | \$12.2790 | \$12.5238 | \$12.3976 | \$17.3280 | \$17.3280 | |
| 96 | | | | | | | | | | | | | | | |
| 97 | LNG Rate for Injections | Actual or Sch. 6, In 150 * 10 | #DIV/0! | #DIV/0! | \$10.5920 | \$10.5920 | \$10.5920 | \$10.5920 | \$17.9620 | \$9.6210 | \$12.5470 | \$12.3950 | \$18.1950 | \$18.0450 | |
| 98 | | | | | | | | | | | | | | | |
| 99 | | | | | | | | | | | | | | | |
| 100 | Month Dollar Average | In (85 + In 93) /2 | | | | \$ 125,197 | \$ 125,197 | \$ 125,197 | \$ 125,979 | \$ 126,366 | \$ 71,952 | \$ 17,843 | \$ 89,384 | \$ 143,947 | |
| 101 | | | | | | | | | | | | | | | |
| 102 | Money Pool Finance Rate (per Nov 10 - Apr 11 Actuals) | | | | | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| 103 | | | | | | | | | | | | | | | |
| 104 | Inventory Finance Charge | In 100 * In 102 | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 105 | | | | | | | | | | | | | | | |
| 106 | | | | | | | | | | | | | | | |
| 107 | Total Fuel Financing | Ins 53 + 75 + 104 | | | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |

Schedule 17

1 **Liberty Utilities (EnergyNorth Natural Gas) Corp.**
2 **Peak 2015-2016 Winter Cost of Gas Filing**
3 **Peak 2015 - 2016 Winter Cost of Gas Filing**
4 **Forecast of Firm Transportation Volumes and Cost of Gas Revenues**

5
6
7 **Firm Transportation**
8
9

| | Therms 1/ | Cost of Gas Rate 2/ | Cost of Gas Revenue |
|--------|--------------------------|------------------------|---------------------------|
| Nov-15 | 5,598,123 | -\$0.0007 | \$ (4,135) |
| Dec-15 | 7,362,439 | -0.0007 | (5,438) |
| Jan-16 | 8,823,981 | -0.0007 | (6,517) |
| Feb-16 | 9,658,539 | -0.0007 | (7,134) |
| Mar-16 | 9,102,950 | -0.0007 | (6,724) |
| Apr-16 | <u>7,871,017</u> | -0.0007 | <u>(5,814)</u> |
| Total | <u>48,417,049</u> | | <u>\$ (35,761)</u> |

20
21
22
23
24 1/ Per Schedule 10B, line 35. Excludes special contract volumes subject to transportation cost of gas.

25 2/ Refer to Proposed First Revised Page 79 for calculation of rate.

Schedule 18

NO LONGER INCLUDED IN COG FILING

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Schedule 19

Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Utilities
 Local Distribution Adjustment Charge (LDAC) increase due to Rate Case Expense and Recoupment
 For LDAC effective November 1, 2015 - December 31, 2016
 Docket No. DG 14-180

Schedule 19
 RCE
 Page 1 of 2

| | | |
|----|--|--------------------|
| 1 | Rate Case Expense in Docket No. DG 14-180 | \$411,782 |
| 2 | Recoupment in Docket No. DG 14-180 | <u>\$2,990,348</u> |
| 3 | | \$3,402,130 |
| 4 | | |
| 5 | Rate Case Expense Overcollection in Docket No. DG 10-017 | (\$129,262) |
| 6 | | |
| 7 | Estimated July 2015 - October 2015 Recoveries | (\$281,992) |
| 8 | | |
| 9 | Estimated November 2015 - December 2016 Remaining Recovery | \$2,990,876 |
| 10 | Estimated November 2015 - December 2016 Interest | <u>\$50,283</u> |
| 11 | | |
| 12 | Total Remaining Recovery | \$3,041,159 |
| 13 | | |
| 14 | Estimated November 2015 - December 2016 Sales (therms) | 217,953,914 |
| 15 | | |
| 16 | RCE rate per therm November 2015 - December 2016 | \$0.0140 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

JULY 2015 THROUGH DECEMBER 2016
RATE CASE EXPENSE AND RECOUPMENT PROJECTION

| | (Actual) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) | (Estimate) |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| 1 FOR THE MONTH OF: | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | May-16 | Jun-16 | Jul-16 | Aug-16 | Sep-16 | Oct-16 | Nov-16 | Dec-16 | Total |
| 2 DAYS IN MONTH | 31 | 31 | 30 | 31 | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | |
| 3 Beginning Balance | \$ 3,272,868 | \$ 3,268,697 | \$ 3,192,378 | \$ 3,110,471 | \$ 2,990,876 | \$ 2,820,054 | \$ 2,537,840 | \$ 2,166,462 | \$ 1,773,938 | \$ 1,435,399 | \$ 1,151,360 | \$ 963,843 | \$ 842,534 | \$ 752,540 | \$ 672,512 | \$ 587,304 | \$ 465,607 | \$ 963,843 | \$ 3,272,868 |
| 4 Add Actual Costs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 Less Collected Revenue | (13,186) | (85,224) | (90,314) | (128,004) | (178,573) | (289,598) | (377,862) | (397,430) | (342,963) | (287,489) | (190,432) | (123,719) | (92,193) | (81,991) | (86,889) | (123,149) | (178,573) | (289,598) | (3,357,186) |
| 6 Add Administrative and Start Up Costs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7 Ending Balance Pre-Interest | \$ 3,259,681 | \$ 3,183,473 | \$ 3,102,064 | \$ 2,982,467 | \$ 2,812,303 | \$ 2,530,456 | \$ 2,159,978 | \$ 1,769,032 | \$ 1,430,975 | \$ 1,147,910 | \$ 960,928 | \$ 840,125 | \$ 750,341 | \$ 670,548 | \$ 585,624 | \$ 464,156 | \$ 287,034 | \$ 674,245 | \$ (84,318) |
| 8 Month's Average Balance | \$ 3,266,274 | \$ 3,226,085 | \$ 3,147,221 | \$ 3,046,469 | \$ 2,901,590 | \$ 2,675,255 | \$ 2,348,909 | \$ 1,967,747 | \$ 1,602,457 | \$ 1,291,654 | \$ 1,056,144 | \$ 901,984 | \$ 796,438 | \$ 711,544 | \$ 629,068 | \$ 525,730 | \$ 376,321 | \$ 819,044 | |
| 9 Interest Rate | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | 3.25% | |
| 10 Interest Applied | \$ 9,016 | \$ 8,905 | \$ 8,407 | \$ 8,409 | \$ 7,751 | \$ 7,384 | \$ 6,484 | \$ 4,906 | \$ 4,423 | \$ 3,450 | \$ 2,915 | \$ 2,409 | \$ 2,198 | \$ 1,964 | \$ 1,680 | \$ 1,451 | \$ 1,005 | \$ 2,261 | \$ 85,020 |
| 11 Ending Balance | \$ 3,268,697 | \$ 3,192,378 | \$ 3,110,471 | \$ 2,990,876 | \$ 2,820,054 | \$ 2,537,840 | \$ 2,166,462 | \$ 1,773,938 | \$ 1,435,399 | \$ 1,151,360 | \$ 963,843 | \$ 842,534 | \$ 752,540 | \$ 672,512 | \$ 587,304 | \$ 465,607 | \$ 288,039 | \$ 676,506 | \$ 702 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Residential Low Income Assistance Program (RLIAP)

Schedule 19
RLIAP
Page 1 of 2

| | Customer Charge | First Block | Last Block | Total |
|---|------------------------|--------------------|-------------------|------------------|
| Peak Period | | | | |
| R-3 Base Rates | \$ 22.0400 | \$ 0.3486 | \$ 0.2885 | |
| R-4 Rate at 40% of R-3 | \$ 8.8200 | \$ 0.1394 | \$ 0.1153 | |
| Program Subsidy | \$ 13.2200 | \$ 0.2092 | \$ 0.1732 | |
| Average Annual Therms | | 519 | 45 | 564 |
| Peak Period RLIAP Subsidy | \$ 79.32 | \$ 108.51 | \$ 7.83 | \$ 195.66 |
| Off Peak Period | | | | |
| R-3 Base Rates | \$ 22.0400 | \$ 0.3486 | \$ 0.2885 | |
| R-4 Rate at 40% of R-3 | \$ 8.8200 | \$ 0.1394 | \$ 0.1153 | |
| Program Subsidy | \$ 13.2200 | \$ 0.2092 | \$ 0.1732 | |
| Average Annual Therms | | 108 | 69 | 176 |
| Off Peak Period RLIAP Subsidy | \$ 79.32 | \$ 22.49 | \$ 11.88 | \$ 113.69 |
| Estimated Annual Subsidy | \$ 158.64 | \$ 131.00 | \$ 19.71 | \$ 309.35 |
| Number of Estimated 2015/16 Participants | | | | 8,142 1/ |
| Annual Subsidy times Number of Participants (Ln 17 * Ln 19) | | | | \$ 2,518,737 |
| Prior Year Ending Balance - RLIAP Page 2 | | | | 155,815 |
| Estimated Annual Administrative Costs | | | | - |
| Total Program Costs | | | | \$ 2,674,553 |
| Estimated weather normalized firm therms billed for the twelve months ended 10/31/16 sales and transportation | | | | 184,393,263 |
| Total Residential Low Income Program Charge | | | | \$ 0.0145 |

1/

Estimated number of participants for 2015-16 is based on the actual number participants as of June 2015.

Liberty Utilities (EnergyNorth Natural Gas) Corp.

NOVEMBER 2014 THROUGH OCTOBER 2015
RESIDENTIAL LOW INCOME ASSISTANCE PROGRAM RECONCILIATION
ACCOUNT 175.39

| | | (Actual) | (Actual) | (Actual) | (Actual) | (Actual) | (Actual) | (Actual) | (Actual) | (Actual) | (Estimate) | (Estimate) | (Estimate) | |
|----|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|------------|------------|--------------|
| 1 | FOR THE MONTH OF: | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Total |
| 2 | DAYS IN MONTH | 30 | 31 | 31 | 29 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | |
| 3 | Beginning Balance | \$ (389,301) | \$ (385,902) | \$ (385,855) | \$ (561,561) | \$ (321,138) | \$ (285,593) | \$ (192,274) | \$ (114,714) | \$ (34,079) | \$ 27,710 | \$ 72,219 | \$ 114,380 | \$ (389,301) |
| 4 | | | | | | | | | | | | | | |
| 5 | Add: Actual Costs | 82,641 | 126,208 | - | 439,519 | 252,744 | 237,268 | 148,479 | 137,757 | 108,805 | 79,220 | 79,538 | 88,501 | 1,780,681 |
| 6 | | | | | | | | | | | | | | |
| 7 | Less: Collected Revenue | (78,208) | (125,097) | (174,400) | (197,997) | (216,444) | (143,311) | (70,496) | (56,924) | (47,008) | (34,849) | (37,627) | (47,438) | (1,229,798) |
| 8 | | | | | | | | | | | | | | |
| 9 | Add: Administrative and Start Up Costs | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | | | | | | | | | | | | | | |
| 11 | Ending Balance Pre-Interest | \$ (384,868) | \$ (384,791) | \$ (560,255) | \$ (320,039) | \$ (284,838) | \$ (191,637) | \$ (114,290) | \$ (33,881) | \$ 27,719 | \$ 72,081 | \$ 114,131 | \$ 155,443 | \$ 161,581 |
| 12 | | | | | | | | | | | | | | |
| 13 | Month's Average Balance | \$ (387,085) | \$ (385,347) | \$ (473,055) | \$ (440,800) | \$ (302,988) | \$ (238,615) | \$ (153,282) | \$ (74,297) | \$ (3,180) | \$ 49,896 | \$ 93,175 | \$ 134,911 | |
| 14 | | | | | | | | | | | | | | |
| 15 | Interest Rate | 3 25% | 3 25% | 3 25% | 3 25% | 3 25% | 3 25% | 3 25% | 3 25% | 3 25% | 3 25% | 3 25% | 3 25% | |
| 16 | | | | | | | | | | | | | | |
| 17 | Interest Applied | \$ (1,034) | \$ (1,064) | \$ (1,306) | \$ (1,099) | \$ (755) | \$ (637) | \$ (423) | \$ (198) | \$ (9) | \$ 138 | \$ 249 | \$ 372 | \$ (5,766) |
| 18 | | | | | | | | | | | | | | |
| 19 | Ending Balance | \$ (385,902) | \$ (385,855) | \$ (561,561) | \$ (321,138) | \$ (285,593) | \$ (192,274) | \$ (114,714) | \$ (34,079) | \$ 27,710 | \$ 72,219 | \$ 114,380 | \$ 155,815 | \$ 155,815 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.
 Energy Efficiency Programs
 For Residential Non-Heating and Heating Classes
 November 1, 2015 - October 31, 2016
 Energy Efficiency Charge

Schedule 19
 Energy Efficiency
 Page 1 of 3

| Month | Actual or Forecast | Beginning Balance (Over)/Under | Residential DSM Rate Per Therm | DSM Collections | Forecasted DSM Expenditures | Actual DSM Expenditures | | Incentive | Ending Balance (Over)/Under | Average Balance (Over)/Under | Interest Monthly Federal Prime Rate | Interest @ Fed Reserve Bank Loan Rate | Ending Bal. Plus Interest (Over)/Under | Forecasted Residential Therm Sales | Residential Therm Sales | # of Days |
|--------------|--------------------|--------------------------------|--------------------------------|-----------------|-----------------------------|-------------------------|------------|-----------|-----------------------------|------------------------------|-------------------------------------|---------------------------------------|--|------------------------------------|-------------------------|-----------|
| | | | | | | Residential | Low-Income | | | | | | | | | |
| May 15 | Actual | 590,504 | (\$0.0646) | (215,490) | 192,391 | 140,585 | 36,274 | 14,209 | 566,082 | 578,293 | 3.25% | 1,641 | 567,723 | 3,349,634 | 3,349,991 | 31 |
| June 15 | Actual | 567,723 | (\$0.0646) | (140,646) | 192,391 | 153,076 | 48,277 | 14,209 | 642,641 | 605,182 | 3.25% | 1,660 | 644,301 | 1,984,898 | 2,175,297 | 30 |
| July 15 | Forecast | 644,301 | (\$0.0646) | (80,922) | 192,391 | 0 | 0 | | 755,770 | 700,035 | 3.25% | 1,932 | 757,702 | 1,252,661 | 0 | 31 |
| August 15 | Forecast | 757,702 | (\$0.0646) | (68,261) | 192,391 | 0 | 0 | | 881,832 | 819,767 | 3.25% | 2,263 | 884,094 | 1,056,675 | 0 | 31 |
| September 15 | Forecast | 884,094 | (\$0.0646) | (73,845) | 192,391 | 0 | 0 | | 1,002,640 | 943,367 | 3.25% | 2,520 | 1,005,160 | 1,143,113 | 0 | 30 |
| October 15 | Forecast | 1,005,160 | (\$0.0646) | (109,402) | 192,391 | 0 | 0 | | 1,088,148 | 1,046,654 | 3.25% | 2,889 | 1,091,037 | 1,693,533 | 0 | 31 |
| November 15 | Forecast | 1,091,037 | \$0.0585 | 241,649 | 192,391 | 0 | 0 | | 1,525,077 | 1,308,057 | 3.25% | 3,494 | 1,528,571 | 4,134,277 | 0 | 30 |
| December 15 | Forecast | 1,528,571 | \$0.0585 | 455,199 | 192,391 | 0 | 0 | | 2,176,160 | 1,852,366 | 3.25% | 5,113 | 2,181,274 | 7,787,838 | 0 | 31 |
| January 16 | Forecast | 2,181,274 | \$0.0585 | 624,875 | 207,932 | 0 | 0 | | 3,014,081 | 2,597,677 | 3.25% | 7,170 | 3,021,251 | 10,690,766 | 0 | 31 |
| February 16 | Forecast | 3,021,251 | \$0.0585 | 630,845 | 207,932 | 0 | 0 | | 3,860,029 | 3,440,640 | 3.25% | 8,578 | 3,868,607 | 10,792,908 | 0 | 28 |
| March 16 | Forecast | 3,868,607 | \$0.0585 | 525,582 | 207,932 | 0 | 0 | | 4,602,121 | 4,235,364 | 3.25% | 11,691 | 4,613,812 | 8,991,996 | 0 | 31 |
| April 16 | Forecast | 4,613,812 | \$0.0585 | 431,989 | 207,932 | 0 | 0 | | 5,253,733 | 4,933,773 | 3.25% | 13,179 | 5,266,912 | 7,390,737 | 0 | 30 |
| May 16 | Forecast | 5,266,912 | \$0.0585 | 250,067 | 207,932 | 0 | 0 | | 5,724,911 | 5,495,912 | 3.25% | 15,170 | 5,740,082 | 4,278,304 | 0 | 31 |
| June 16 | Forecast | 5,740,082 | \$0.0585 | 140,834 | 207,932 | 0 | 0 | | 6,088,848 | 5,914,465 | 3.25% | 15,799 | 6,104,647 | 2,409,481 | 0 | 30 |
| July 16 | Forecast | 6,104,647 | \$0.0585 | 87,360 | 207,932 | 0 | 0 | | 6,399,939 | 6,252,293 | 3.25% | 17,258 | 6,417,197 | 1,494,615 | 0 | 31 |
| August 16 | Forecast | 6,417,197 | \$0.0585 | 74,286 | 207,932 | 0 | 0 | | 6,699,415 | 6,558,306 | 3.25% | 18,103 | 6,717,518 | 1,270,928 | 0 | 31 |
| September 16 | Forecast | 6,717,518 | \$0.0585 | 85,726 | 207,932 | 0 | 0 | | 7,011,176 | 6,864,347 | 3.25% | 18,336 | 7,029,512 | 1,466,653 | 0 | 30 |
| October 16 | Forecast | 7,029,512 | \$0.0585 | 159,607 | 207,932 | 0 | 0 | | 7,397,051 | 7,213,282 | 3.25% | 19,911 | 7,416,962 | 2,730,652 | 0 | 31 |
| November 16 | Forecast | 7,416,962 | \$0.0585 | 241,649 | 207,932 | 0 | 0 | | 7,866,543 | 7,641,752 | 3.25% | 20,413 | 7,886,956 | 4,134,277 | 0 | 30 |
| December 16 | Forecast | 7,886,956 | \$0.0585 | 455,199 | 207,932 | 0 | 0 | | 8,550,087 | 8,218,521 | 3.25% | 22,685 | 8,572,772 | 7,787,838 | 0 | 31 |

| Estimated Residential Conservation Charge Effective November 1, 2015 - October 31, 2016 | | |
|--|-----------|-------------------|
| Beginning Balance | \$ | 1,091,037 |
| Program Budget Nov 15-Oct 16 | | 2,464,104 |
| Projected Interest | | 153,802 |
| Projected Budget with Interest | \$ | 3,708,943 |
| Total Charges | \$ | 3,708,943 |
| Projected Therm Sales | | 63,439,156 |
| Residential Rate | | \$0.0585 |
| Total Charges with Interest | \$ | 3,711,191 |
| Projected Therm Sales | | 63,439,156 |
| Residential Rate | | \$0.0585 |

| | | | | |
|---|------|---------------|---------------|------|
| Residential Non Heating Therm Sales | 0% | 829,589 | 774,552 | 0% |
| Residential Heating Therm Sales | 37% | 61,254,757 | 62,664,604 | 34% |
| C&I Therm Sales | 63% | 104,438,722 | 120,954,108 | 66% |
| Total Therms | 100% | 166,523,068 | 184,393,263 | 100% |
| | | <u>Budget</u> | <u>Budget</u> | |
| | | 2015 | 2016 | |
| Low-Income Program Budget | | \$ 921,250 | \$ 895,000 | |
| Other Refund | | - | - | |
| Total Shared Budget | | \$ 921,250 | \$ 895,000 | |
| Residential Program Budget | | \$ 2,206,100 | \$ 2,023,815 | |
| Residential Program Incentive @ 70% | | \$158,693 | \$163,454 | |
| Total Residential Program Budget | | \$ 2,364,793 | \$ 2,187,269 | |
| Commercial/Industrial Program Budget | | \$ 2,493,010 | \$ 2,703,000 | |
| Commercial/Industrial Program Incentive at 70% | | \$139,609 | \$143,772 | |
| Total Commercial/Industrial Program Budget | | \$ 2,632,619 | \$ 2,846,772 | |
| Total Program Budget | | \$ 5,918,662 | \$ 5,929,040 | |
| Shared Expenses Allocation to Residential | | \$ 343,467 | \$ 307,918 | |
| Shared Expenses Allocation to C&I | | 577,783 | 587,082 | |
| Total Allocated Shared Expenses | | \$ 921,250 | \$ 895,000 | |
| Total Residential (including allocation of Shared Budget) | | \$ 2,708,260 | \$ 2,495,187 | |
| Total C&I (including allocation of Shared Budget) | | 3,210,402 | 3,433,853 | |
| Total Budget | | \$ 5,918,662 | \$ 5,929,040 | |

Liberty Utilities (EnergyNorth Natural Gas) Corp.
 Energy Efficiency Programs
 For Commercial/Industrial Classes
 November 1, 2015 - October 31, 2016
 Energy Efficiency Charge

Schedule 19
 Energy Efficiency
 Page 2 of 3

| Month | Actual or Forecast | Beginning Balance (Over)/Under | DSM Rate Per Therm | DSM Collections | Forecasted DSM Expenditures | Actual DSM Expenditures | | Incentive | Ending Balance (Over)/Under | Average Balance (Over)/Under | Interest Fed Reserve Prime Rate | Interest @ Fed Reserve Bank Loan Rate | Ending Bal. Plus Interest (Over)/Under | Forecasted Commercial/Industrial Therm Sales | Actual Commercial/Industrial Therm Sales | # of Days |
|--------------|--------------------|-----------------------------------|-----------------------|-----------------|-----------------------------|-------------------------|------------|-----------|--------------------------------|---------------------------------|------------------------------------|--|---|--|--|-----------|
| | | | | | | C&I | Low-Income | | | | | | | | | |
| May 15 | Actual | (492,279) | (\$0.0502) | (330,091) | 251,510 | 167,137 | 48,084 | 12,425 | (594,725) | (543,502) | 3.25% | (1,461) | (596,185) | 6,537,363 | 6,591,542 | 31 |
| June 15 | Actual | (596,185) | (\$0.0502) | (293,062) | 251,510 | 298,880 | 63,996 | 12,425 | (513,946) | (555,066) | 3.25% | (1,444) | (515,391) | 5,092,563 | 5,835,765 | 30 |
| July 15 | Forecast | (515,391) | (\$0.0502) | (201,239) | 251,510 | 0 | 0 | | (465,120) | (490,255) | 3.25% | (1,353) | (466,473) | 4,008,754 | 0 | 31 |
| August 15 | Forecast | (466,473) | (\$0.0502) | (193,349) | 251,510 | 0 | 0 | | (408,312) | (437,392) | 3.25% | (1,207) | (409,519) | 3,851,567 | 0 | 31 |
| September 15 | Forecast | (409,519) | (\$0.0502) | (208,652) | 251,510 | 0 | 0 | | (366,661) | (388,090) | 3.25% | (1,037) | (367,697) | 4,156,413 | 0 | 30 |
| October 15 | Forecast | (367,697) | (\$0.0502) | (250,391) | 251,510 | 0 | 0 | | (366,578) | (367,138) | 3.25% | (1,013) | (367,591) | 4,987,864 | 0 | 31 |
| November 15 | Forecast | (367,591) | \$0.0256 | 221,866 | 251,510 | 0 | 0 | | 105,785 | (130,903) | 3.25% | (350) | 105,435 | 8,666,629 | 0 | 30 |
| December 15 | Forecast | 105,435 | \$0.0256 | 332,081 | 251,510 | 0 | 0 | | 689,026 | 397,230 | 3.25% | 1,096 | 690,122 | 12,971,907 | 0 | 31 |
| January 16 | Forecast | 690,122 | \$0.0256 | 419,740 | 286,154 | 0 | 0 | | 1,396,017 | 1,043,070 | 3.25% | 2,879 | 1,398,896 | 16,396,107 | 0 | 31 |
| February 16 | Forecast | 1,398,896 | \$0.0256 | 453,035 | 286,154 | 0 | 0 | | 2,138,086 | 1,768,491 | 3.25% | 4,409 | 2,142,495 | 17,696,673 | 0 | 28 |
| March 16 | Forecast | 2,142,495 | \$0.0256 | 399,184 | 286,154 | 0 | 0 | | 2,827,834 | 2,485,164 | 3.25% | 6,860 | 2,834,693 | 15,593,136 | 0 | 31 |
| April 16 | Forecast | 2,834,693 | \$0.0256 | 338,376 | 286,154 | 0 | 0 | | 3,459,223 | 3,146,958 | 3.25% | 8,406 | 3,467,630 | 13,217,803 | 0 | 30 |
| May 16 | Forecast | 3,467,630 | \$0.0256 | 239,942 | 286,154 | 0 | 0 | | 3,993,726 | 3,730,678 | 3.25% | 10,298 | 4,004,024 | 9,372,720 | 0 | 31 |
| June 16 | Forecast | 4,004,024 | \$0.0256 | 165,357 | 286,154 | 0 | 0 | | 4,455,535 | 4,229,779 | 3.25% | 11,299 | 4,466,833 | 6,459,248 | 0 | 30 |
| July 16 | Forecast | 4,466,833 | \$0.0256 | 130,923 | 286,154 | 0 | 0 | | 4,883,911 | 4,675,372 | 3.25% | 12,905 | 4,896,816 | 5,114,188 | 0 | 31 |
| August 16 | Forecast | 4,896,816 | \$0.0256 | 117,929 | 286,154 | 0 | 0 | | 5,300,899 | 5,098,858 | 3.25% | 14,074 | 5,314,974 | 4,606,586 | 0 | 31 |
| September 16 | Forecast | 5,314,974 | \$0.0256 | 121,905 | 286,154 | 0 | 0 | | 5,723,033 | 5,519,003 | 3.25% | 14,743 | 5,737,776 | 4,761,914 | 0 | 30 |
| October 16 | Forecast | 5,737,776 | \$0.0256 | 156,088 | 286,154 | 0 | 0 | | 6,180,018 | 5,958,897 | 3.25% | 16,448 | 6,196,467 | 6,097,198 | 0 | 31 |
| November 16 | Forecast | 6,196,467 | \$0.0256 | 221,866 | 286,154 | 0 | 0 | | 6,704,487 | 6,450,477 | 3.25% | 17,231 | 6,721,718 | 8,666,629 | 0 | 30 |
| December 16 | Forecast | 6,721,718 | \$0.0256 | 332,081 | 286,154 | 0 | 0 | | 7,339,953 | 7,030,835 | 3.25% | 19,407 | 7,359,360 | 12,971,907 | 0 | 31 |

0

| Estimated C&I Conservation Charge November 1, 2015 - October 31, 2016 | |
|--|--------------------|
| Beginning Balance | (367,591) |
| Program Budget Nov 15-Oct 16 | 3,364,565 |
| Projected Interest | 103,068 |
| Program Budget with Interest | 3,100,041 |
| Total Charges | \$3,100,041 |
| Projected Therm Sales | 120,954,108 |
| C&I Rate | \$0.0256 |
| Total Charges with Interest | \$3,096,425 |
| Projected Therm Sales | 120,954,108 |
| C&I Rate | \$0.0256 |
| C&I Rate from Prior Programs (1) | \$0.0000 |
| Combined C&I Rate | \$0.0256 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.
 Energy Efficiency Programs
 For Residential and Commercial/Industrial Classes
 November 1, 2015 - October 31, 2016
 Energy Efficiency Charge

Schedule 19
 Energy Efficiency
 Page 3 of 3

| Month | Actual or Forecast | Beginning Balance (Over)/Under | DSM Rate Per Therm | DSM Collections | Forecasted DSM Expenditures | Actual DSM Expenditures | | | | Incentive | Ending Balance (Over)/Under | Average Balance (Over)/Under | Interest Plus Interest Prime Rate | Interest @ Fed Reserve Bank Loan Rate | Ending Bal. Plus Interest (Over)/Under | Forecasted Therm Sales | Actual Therm Sales | # of Days |
|--------------|--------------------|--------------------------------|--------------------|-----------------|-----------------------------|-------------------------|---------|------------|---------|-----------|-----------------------------|------------------------------|-----------------------------------|---------------------------------------|--|------------------------|--------------------|-----------|
| | | | | | | Residential | C&I | Low-Income | Total | | | | | | | | | |
| May 15 | Actual | 98,225 | n/a | (545,581) | 443,901 | 140,585 | 167,137 | 84,358 | 392,079 | 26,634 | (28,643) | 34,791 | 3.25% | 96 | (28,547) | 9,886,997 | 9,941,533 | 31 |
| June 15 | Actual | (28,462) | n/a | (433,708) | 443,901 | 153,076 | 298,880 | 112,273 | 564,230 | 26,634 | 128,694 | 50,116 | 3.25% | 134 | 128,828 | 7,077,460 | 8,011,062 | 30 |
| July 15 | Forecast | 128,910 | n/a | (282,161) | 443,901 | 0 | 0 | 0 | 0 | | 290,650 | 209,780 | 3.25% | 579 | 291,229 | 5,261,414 | 0 | 31 |
| August 15 | Forecast | 291,229 | n/a | (261,610) | 443,901 | 0 | 0 | 0 | 0 | | 473,520 | 382,374 | 3.25% | 1,055 | 474,575 | 4,908,241 | 0 | 31 |
| September 15 | Forecast | 474,575 | n/a | (282,497) | 443,901 | 0 | 0 | 0 | 0 | | 635,979 | 555,277 | 3.25% | 1,483 | 637,463 | 5,299,526 | 0 | 30 |
| October 15 | Forecast | 637,463 | n/a | (359,793) | 443,901 | 0 | 0 | 0 | 0 | | 721,570 | 679,516 | 3.25% | 1,876 | 723,446 | 6,681,398 | 0 | 31 |
| November 15 | Forecast | 723,446 | n/a | 463,514 | 443,901 | 0 | 0 | 0 | 0 | | 1,630,861 | 1,177,154 | 3.25% | 3,144 | 1,634,006 | 12,800,906 | 0 | 30 |
| December 15 | Forecast | 1,634,006 | n/a | 787,280 | 443,901 | 0 | 0 | 0 | 0 | | 2,865,187 | 2,249,596 | 3.25% | 6,210 | 2,871,396 | 20,759,744 | 0 | 31 |
| January 16 | Forecast | 2,871,396 | n/a | 1,044,616 | 494,087 | 0 | 0 | 0 | 0 | | 4,410,098 | 3,640,747 | 3.25% | 10,049 | 4,420,148 | 27,086,873 | 0 | 31 |
| February 16 | Forecast | 4,420,148 | n/a | 1,083,880 | 494,087 | 0 | 0 | 0 | 0 | | 5,998,115 | 5,209,131 | 3.25% | 12,987 | 6,011,102 | 28,489,580 | 0 | 28 |
| March 16 | Forecast | 6,011,102 | n/a | 924,766 | 494,087 | 0 | 0 | 0 | 0 | | 7,429,955 | 6,720,528 | 3.25% | 18,550 | 7,448,506 | 24,585,132 | 0 | 31 |
| April 16 | Forecast | 7,448,506 | n/a | 770,364 | 494,087 | 0 | 0 | 0 | 0 | | 8,712,957 | 8,080,731 | 3.25% | 21,586 | 8,734,542 | 20,608,540 | 0 | 30 |
| May 16 | Forecast | 8,734,542 | n/a | 490,009 | 494,087 | 0 | 0 | 0 | 0 | | 9,718,637 | 9,226,590 | 3.25% | 25,468 | 9,744,105 | 13,651,025 | 0 | 31 |
| June 16 | Forecast | 9,744,105 | n/a | 306,191 | 494,087 | 0 | 0 | 0 | 0 | | 10,544,383 | 10,144,244 | 3.25% | 27,098 | 10,571,480 | 8,868,729 | 0 | 30 |
| July 16 | Forecast | 10,571,480 | n/a | 218,283 | 494,087 | 0 | 0 | 0 | 0 | | 11,283,851 | 10,927,665 | 3.25% | 30,163 | 11,314,014 | 6,608,803 | 0 | 31 |
| August 16 | Forecast | 11,314,014 | n/a | 192,214 | 494,087 | 0 | 0 | 0 | 0 | | 12,000,315 | 11,657,164 | 3.25% | 32,177 | 12,032,492 | 5,877,513 | 0 | 31 |
| September 16 | Forecast | 12,032,492 | n/a | 207,631 | 494,087 | 0 | 0 | 0 | 0 | | 12,734,209 | 12,383,351 | 3.25% | 33,079 | 12,767,288 | 6,228,566 | 0 | 30 |
| October 16 | Forecast | 12,767,288 | n/a | 315,695 | 494,087 | 0 | 0 | 0 | 0 | | 13,577,070 | 13,172,179 | 3.25% | 36,359 | 13,613,429 | 8,827,850 | 0 | 31 |
| November 16 | Forecast | 13,613,429 | n/a | 463,515 | 494,087 | 0 | 0 | 0 | 0 | | 14,571,030 | 14,092,229 | 3.25% | 37,644 | 14,608,673 | 12,800,906 | 0 | 30 |
| December 16 | Forecast | 14,608,673 | n/a | 787,280 | 494,087 | 0 | 0 | 0 | 0 | | 15,890,040 | 15,249,357 | 3.25% | 42,092 | 15,932,133 | 20,759,744 | 0 | 31 |

0

| Residential (R-1 & R-3) and C & I Conservation Charge November 1, 2015 - October 31, 2016 | |
|--|--------------------|
| Beginning Balance | \$ 723,446 |
| Program Budget Nov 15-Oct 16 | \$ 5,828,669 |
| Projected Interest | \$ 256,870 |
| Program Budget with Interest | \$ 6,808,985 |
| Total Charges | \$6,808,985 |

Schedule 20

Environmental Surcharge - Manufactured Gas Plants

Manufactured Gas Plants

| | |
|--|-------------------------------|
| Required annual Environmental increase | \$2,651,933 |
| DG 10-17 Base Rate Revision Collections | \$0 |
| Environmental Subtotal | \$2,651,933 |
| Overall Annual Net Increase to Rates | \$2,651,933 |
| Estimated weather normalized firm therms billed for the twelve months ended 10/31/16 - sales and transportation | 184,393,263 therms |
| Surcharge per therm | <u>\$0.0144</u> per therm |
| <u>Total Environmental Surcharge</u> | <u><u>\$0.0144</u></u> |

LIBERTYUTILITIES (ENERGYNORTH NATURAL GAS) CORP.
d/b/a LIBERTY UTILITIES

CONCORD FORMER MGP

LINE
NO.

1. SITE LOCATION: One Gas Street, Concord, New Hampshire.
2. DATE SITE WAS FIRST INVESTIGATED: EnergyNorth Natural Gas, Inc. (ENGI) received a Notice Letter from the New Hampshire Department of Environmental Services (NHDES) in September 1992. The Notice related primarily to contamination identified in the pond adjacent to Exit 13 off Interstate 93, although it was broad enough to also include the former manufactured gas plant (MGP) site itself.
3. NATURE AND SCOPE OF SITE CONTAMINATION: Residual materials from the historic operation of the MGP were discovered in the area of the Exit 13 pond, as the NHDOT began site preparation work for the reconfiguration of that interchange. Subsequent investigations by ENGI and others indicate that contaminants originating from the MGP on Gas Street are present in soil and groundwater between the MGP and the Merrimack River, including within the Exit 13 pond.
4. SUMMARY OF MATERIAL DEVELOPMENTS AND INTERACTIONS WITH ENVIRONMENTAL AUTHORITIES:

Concord MGP: The New Hampshire Department of Transportation (NHDOT) contacted ENGI in August 2001 and February 2002 regarding possible coal tar-related impacts in a sewer line on a parcel adjacent to the former gas plant. NHDOT is currently conducting groundwater monitoring as part of a Groundwater Management Zone Permit on this parcel. ENGI met with NHDOT and NHDES in January 2003 to review the results of its 2002 site investigation. Limited coal tar impacts were observed in groundwater and subsurface soils at select locations.

On July 15, 2003, NHDES issued a letter to ENGI requesting submission of a schedule and scope of work for a site investigation of the MGP site by mid-September 2003. ENGI proposed a May 2005 date for submission of a Site Investigation Report for the MGP site on Gas Street to NHDES by way of a letter dated October 6, 2003. NHDES agreed to the proposed schedule in their response letter dated October 31, 2003.

ENGI submitted the work plan for the MGP site investigation to NHDES on May 20, 2004. NHDES accepted the work plan on June 16, 2004. The investigation took place between September 2004 and March 2005, and the Site Investigation Report was submitted to NHDES on June 6, 2005. The report indicated that subsurface impacts are present at the MGP, and additional investigation as well as limited remediation will

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
d/b/a LIBERTY UTILITIES

CONCORD FORMER MGP

LINE
NO.

be required. NHDES accepted the report on August 12, 2005, and requested ENGI submit a supplemental scope of work to complete the delineation of MGP-related impacts on and off Site. The document was submitted in November 2005. Site investigation activities at and downgradient of the MGP were conducted in 2006. ENGI submitted an additional supplemental scope of work to further delineate MGP impacts on May 31, 2007 and NHDES subsequently approved the scope on June 5, 2007. ENGI bid the NHDES-approved scope of work in June 2008 and awarded the contract in late July 2008. ENGI met with NHDES at the site in August 2008 to discuss the additional supplemental site investigation activities. The field work took place during October through December 2008, during which time 8 groundwater monitoring wells were installed at 4 off-site locations. The Additional Supplemental Site Investigation Report was submitted to NHDES in September 2009. ENGI met with NHDES to discuss the report findings and strategy for moving forward in October 2009. NHDES issued an approval letter for the Supplemental Site Investigation Report on February 9, 2010. The correspondence approved the report and requested that certain additional activities be completed by ENGI. These requested activities include the following: a) preparation and submission of an Initial Response Action Work Plan to remove approximately 3,500 gallons of liquid and sludge from historic subsurface drip pots and tar wells at the MGP property on Gas Street; b) evaluation of the groundwater conditions in the vicinity of the "Tar Pond" which is depicted on a referenced NHDOT site plan; and c) evaluation of potential indoor air impacts at select locations identified during the additional SSI work.

ENGI submitted the Initial Response Work Plan to NHDES in July 2010 to remove approximately 3,500 gallons of liquid and sludge from historic subsurface drip pots. NHDES issued an approval letter for this Work Plan on August 3, 2010 and the work was completed in June 2011. In addition, ENGI submitted a Supplemental Data Collection Work Plan for the additional off-ENGI-owned property investigation activities (items b and c above) to NHDES in August 2010. NHDES approved of the Work Plan on September 16, 2010. ENGI obtained access to 4 properties in the vicinity of the site in order to conduct the supplemental investigation activities, which included soil, ground water and soil vapor sampling, along with further investigation of the brick tar sewer. ENGI submitted a revised Work Plan with revised sampling locations to NHDES in November 2011; the revision was necessary because site access was not granted by the property owners for some of the originally proposed locations. The investigation work was completed in July 2012, and summarized in a Supplement Data Collection Report that was submitted in August 2013, in preparation for submittal of the Remedial Action Plan. This Supplement Data Collection Report was accepted by NHDES on October 24, 2013, and ENGI was authorized to prepare a RAP and Groundwater Management Permit (GMP) application. **The GMP application was submitted on September 4, 2014, and the permit was received on December 1, 2014. On March 31, 2015, ENGI submitted a proposed Remedial Action Plan involving removal of shallow soils displaying MGP-related residual impacts, investigation and**

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LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
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CONCORD FORMER MGP

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remediation of remaining known subsurface structures, capping of components of the local storm water drainage system, site capping design, and continued monitoring of groundwater on the site. NHDES approved the RAP on May 29, 2015, with the condition that roof of the brick gas holder either be restored, or the holder be razed and the soils beneath it remediated. Both options are being weighed presently. A Remedial Design Report is to be provided to NHDES by December 31, 2015 summarizing pre-design investigations to be completed in 2015.

On June 16, 2013, wind during a thunderstorm caused a tree to fall on the northern side of the roof of the Holder House located on the former Concord MGP property. Damage to the slate roof and brick was sustained. In a letter dated February 24, 2014 NHDES stated that the holder structure "...serves as a physical barrier to prevent infiltration of precipitation into the foundation and thereby limits the amount of MGP byproducts that may be released to the environment." **ENGI has evaluated damage to the roof and structure of the holder, and will be using this information to determine whether the holder will be restored or razed.**

Concord Pond: ENGI has continued to monitor groundwater semiannually at the Exit 13 pond, in May and November, as required by the Groundwater Management Zone Permit that was issued in 1999 as part of the overall remedy following the remediation of the southern end of the Exit 13 pond. The permit was renewed in 2003, 2007 and 2012, and NHDES specified semiannual collection of surface water samples from the pond as an additional condition of the permit.

When the Exit 13 pond was remediated in 1999, NHDES required that the northern portion remained untouched, allowing for storm water input to the pond, with the knowledge that some contamination remained and may require remediation in the future. In 2006, NHDES requested ENGI address the residual contamination in the pond, and in response, ENGI submitted an Interim Data Collection Report and Scope of Work in May 2006, which was approved in July 2006. This Scope of Work was implemented in 2006 and the results were to be used to prepare the Remedial Action Plan (RAP) which NHDES requested be submitted by August 31, 2006. In July 2006, NHDES extended the deadline for submittal of the RAP to June 30, 2007, to allow ENGI additional time for data collection and design. ENGI submitted an Interim Data Collection Report to NHDES in September 2006, and a Conceptual Remedial Design in March 2007. On March 25, 2009, ENGI submitted a Presumptive Remedy Approval Request to NHDES, in order to allow for the design and implementation of an engineered cap without the need to prepare a RAP. On May 4, 2009, NHDES granted the Presumptive Remedy Approval, and the project moved into the remedial design phase. The proposed remedial work is to be performed on city-owned land and within a NHDOT right-of-way; therefore ENGI is working with these parties to come to agreement on the design features, negotiate access and clarify the responsibilities of

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LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
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CONCORD FORMER MGP

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the three parties. In April 2010, ENGI met with representatives from NHDES, the City of Concord, and NHDOT to present the proposed remedy, and ENGI submitted the draft design plans to the parties in June 2010. ENGI met with the regulatory permitting agencies in October 2010. The agencies requested that ENGI modify the remedial design to include an upland cap versus a wetland cap to minimize the impacts of the project. The cap was redesigned and ENGI met with the stakeholders in December 2010. At a subsequent meeting in January 2011, the City of Concord requested that the design be further modified to relocate the City's storm water outfall location. ENGI met with the City in March 2011 to present the feasibility evaluation that was conducted for several alternatives, and concluded that the original design was the appropriate design. Contact was reconvened with the City in 2013, and adjustments to the original design are being made presently to address outfall maintenance and access concerns of the City and NHDOT, respectively.

Semiannual groundwater monitoring at the pond is ongoing, as is recovery of separate phase coal tar from a monitoring well in the vicinity of the pond.

During May 19, 2009 through May 22, 2009, ENGI implemented a NHDES-approved sediment sampling program in the Merrimack River to evaluate potential MGP-related impacts. ENGI met with NHDES in October 2009 to present the results of the sediment investigation, and submitted the sediment sampling data report to NHDES in October 2009. The investigation indicated limited site-related impacts to the shallow near-shore sediments of the Merrimack River. Based upon the results of the sediment investigation, it is unlikely that remedial actions will be necessary in the river. ENGI met with NHDES on February 20, 2013 to discuss all sampling activities to date, summarized in an SIR Addendum Report, submitted in June 2013.

5. NEW HAMPSHIRE SITE REMEDIATION PROGRAM PHASE:

Concord MGP: In July 2003, NHDES requested that ENGI submit a schedule and scope of work for completion of a site investigation of the MGP site. ENGI submitted the scope to NHDES in May 2004 and implemented the work between September 2004 and March 2005. The results of the investigation were documented in the Site Investigation Report, dated June 6, 2005, which was subsequently approved by NHDES. Supplemental investigation activities were performed in 2006. Additional investigation activities were performed in 2008. The additional SSI report was submitted to NHDES in September 2009. In addition, ENGI submitted the Initial Response Work Plan to NHDES in July 2010 to remove approximately 3,500 gallons of liquid and sludge from historic subsurface drip pots. NHDES issued an approval letter for this Work Plan on August 3, 2010 and the work was completed in June 2011. The Supplemental Data Collection report summarizing the investigation activities was accepted in October 2013, authorizing ENGI to prepare a RAP and GMP Application.

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The GMP application was submitted on September 4, 2014, and the permit was received on December 1, 2014. On March 31, 2015, ENGI submitted a proposed RAP, and NHDES approved the RAP with conditions. A Remedial Design Report, summarizing pre-design investigations, is to be provided to NHDES by the end of 2015.

Concord Pond: ENGI submitted an application for a five-year Groundwater Management Zone Permit to the NHDES in April 2002 for the Exit 13 pond. The permit was renewed in October 2007, with the collection of pond surface water samples as an additional condition. Under that permit, groundwater monitoring is expected to be required for the foreseeable future. In addition, as requested by NHDES, ENGI undertook a review of remedial technologies to address the residual contamination remaining in the pond. A conceptual remedial design was submitted to NHDES in March 2007, a Presumptive Remedy Approval was granted by NHDES in May 2009, and the engineered cap design has been drafted. The work will be undertaken pending agreement between the City, NHDOT and ENGI. ENGI met with these parties on several occasions in 2010 and 2011. The Company reinitiated discussion with the City in July 2014 regarding access to the site to implement the approved design of the wetland cap. **The design is currently being adjusted for final approval.**

A renewal application for the Groundwater Management Permit was submitted on July 20, 2012, and the renewed permit was granted by NHDES on December 11, 2012. Groundwater and surface water monitoring continues under this permit every May and November.

6. HISTORY AND CURRENT STATUS OF USE AND OWNERSHIP: The Concord MGP operated from approximately 1850 to 1952, when the natural gas pipeline was extended to Concord. The plant was constructed and operated by predecessors of the Concord Gas Company, which later became known as the Concord Natural Gas Company. By virtue of a merger, ENGI acquired Concord Natural Gas. As has been reported previously by ENGI, it filed a contribution claim in the United States District Court for the District of New Hampshire against the successor to the United Gas Improvement Company. In that claim, ENGI alleged that under the federal Superfund statute, the United Gas Improvement Company exercised control over the operations of the Concord Gas Plant to the extent that the United Gas Improvement Company should be considered an "operator" under the statute. That matter was settled in 1997.
7. LISTING AND STATUS OF INSURANCE AND 3RD PARTY LAWSUITS AND SETTLEMENTS: Numerous confidential settlements with insurance carriers and with

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one private party have been entered into. *Insurance recovery efforts at the Concord Site are complete.*

Note: This summary is an overview only and is not intended to be a comprehensive recitation of all relevant information relating to the site and the associated liability.

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LACONIA FORMER MGP AND LIBERTY HILL DISPOSAL AREA

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1. SITE LOCATION: The former MGP was located on Messer Street in Laconia. Sometime in the early 1950s, during decommissioning of the MGP, wastes from the MGP were disposed of at a location on Liberty Hill Road in Gilford. At the time of the disposal, the property was utilized as a gravel pit, and the disposal reportedly occurred with the permission of the gravel pit owner. The property currently comprises part of a residential neighborhood.
2. DATE SITE WAS FIRST INVESTIGATED: In 1994 and 1995, Public Service Company of New Hampshire (PSNH), one of the former owners and operators of the Laconia Manufactured Gas Plant (MGP), conducted limited site investigations at the plant. In 1996, the New Hampshire Department of Environmental Services (NHDES) sent a "Notification of Site Listing and Request for Site Investigation" for the former Laconia MGP to PSNH and its parent company, Northeast Utilities Services Company (NU), and to EnergyNorth Natural Gas, Inc. (ENGI), another former owner. NHDES designated the site DES #199312038. ENGI and PSNH reached a settlement, reported previously to the New Hampshire Public Utilities Commission (NHPUC), in September 1999. As a result of that settlement, PSNH has had responsibility for the MGP site remediation and interactions with NHDES.

Per the aforementioned settlement, ENGI retained responsibility for any decommissioning-related liabilities, including off-site disposal. Therefore, in October 2004, ENGI notified NHDES of the possibility that wastes from the MGP were disposed of at a location on Liberty Hill Road sometime in the early 1950s during decommissioning of the plant. Drinking water samples were collected from two residential properties in the vicinity in December 2004, and from three additional properties in June and July 2005 by the NHDES; no MGP-related contaminants were detected. At the request of NHDES, ENGI began preliminary site investigations in July 2005 that culminated in the submission of a Site Investigation Report to NHDES in June 2006. As detailed in the report, MGP-related constituents have been detected in soil and shallow groundwater on four residential properties, and in the abutting brook. The report concluded that further investigations were necessary to determine the extent of the contamination. Additional investigation activities were completed between 2006 and 2009.

3. NATURE AND SCOPE OF SITE CONTAMINATION: Residual materials from the former MGP have been identified at the Laconia MGP site and in the adjacent Winnepesaukee River. Please contact PSNH and refer to PSNH filings with NHDES for complete information on the nature and extent of site contamination at the MGP. Residual materials from the former MGP were disposed of at the Liberty Hill disposal area, and MGP-related constituents have been detected in soil and ground water.

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4. SUMMARY OF MATERIAL DEVELOPMENTS AND INTERACTIONS WITH ENVIRONMENTAL AUTHORITIES: Based on the settlement with PSNH that has previously been reported to the Commission, ENGI has had no further involvement with the MGP site since the summer of 1999, except with regard to the Liberty Hill disposal area. Please contact PSNH and refer to PSNH filings with NHDES for complete information on material developments and interactions with environmental authorities.

With respect to the Liberty Hill disposal area, in October 2004, ENGI notified NHDES of the possible existence of this disposal site; the site was assigned disposal site number 200411113 by NHDES. NHDES collected drinking water samples from two residential wells in the vicinity in December 2004 and from three additional residential wells in June and July 2005; no MGP-related contaminants were detected. In January 2005, NHDES requested that ENGI conduct a preliminary site investigation on the two residential properties. ENGI submitted a scope of work for the investigation to NHDES on March 2, 2005. The investigation began in July 2005 and was completed in June 2006 with the submission of the Site Investigation Report.

Additional site investigations were conducted in 2006 and summarized in the December 20, 2006 Interim Data Report #2 submitted to NHDES. Based upon the results of the investigations, remediation is required at the site. In response, a Remedial Action Plan (RAP) was submitted to NHDES on February 28, 2007. The RAP presented NHDES with several remedial alternatives to address soil and groundwater contamination at the site. The February 2007 RAP identified soil excavation (to a depth of 3 feet), construction of a containment wall and impermeable cap on the four residential properties purchased by ENGI as the recommended alternative. In September 2007, NHDES responded to the February 2007 RAP and required that ENGI evaluate additional remedial alternatives that included further soil removal. In November 2007, a RAP Addendum was submitted to NHDES. The revised RAP recommended a remedial alternative that included removal of tar-saturated soils to a depth of approximately 45 feet, construction of a containment wall and impermeable cap on the four residential properties owned by ENGI. On February 29, 2008, NHDES issued a letter to ENGI indicating that NHDES had reached a preliminary determination that the remedy recommended in the November 2007 RAP met the NHDES requirements and that a final decision would be reached following a public meeting and comment period.

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On March 24, 2008, NHDES held a public comment meeting to discuss the recommended alternative and began 30-day public comment period. In April 2008, NHDES received a request to extend the public comment period closing date to May 8, 2008, to allow the Town time to provide technical comment. On June 26, 2008, NHDES issued a letter deferring its final decision on the recommended remedial alternative for the Liberty Hill site pending further data analysis following the development of a scope prepared collaboratively between the Town of Gilford and ENGI. In July and August 2008, technical representatives from ENGI, the Town of Gilford, the Liberty Hill neighborhood and NHDES met twice to discuss the comments provided to NHDES during the public comment period and discuss the scope for additional groundwater modeling activities and limited additional site data collection. The Company submitted Scopes of Work for additional data collection and groundwater modeling to NHDES in September and October 2008, respectively. The field activities were completed between November 2008 and January 2009. Modeling efforts began in late 2008 and were completed in May 2009. In March and May 2009, technical representatives from ENGI, the Town of Gilford, the Liberty Hill neighborhood and NHDES met to discuss the results of the field investigations and the modeling activities. One topic discussed with the technical team was that the modelling results indicate that low-flow pumping would need to be added to the selected remedy meet the remedial goals for the site. On June 30, 2009, NHDES issued a letter to ENGI requesting that a second RAP Addendum be prepared for the site to evaluate the technical changes (mainly the addition of low-flow pumping) to the proposed remedy that resulted from the modeling effort. ENGI submitted the second RAP Addendum to NHDES on August 17, 2009 and presented the findings at a public meeting held in Gilford on September 10, 2009. In October 2009, NHDES hired a third party consultant to review the RAP cost estimates and the results were presented in a report to NHDES in April 2010. In October 2010, NHDES issued a Preliminary Decision on RAP Addendum No. 2, in which NHDES indicated that it did not concur with ENGI's recommended remedial alternative and further recommended the complete removal of coal tar-impacted soils at the site. On January 28, 2011, ENGI submitted a comment letter to NHDES further explaining its rationale for the remedial alternative recommended in RAP Addendum No. 2. On November 2, 2011 NHDES announced a Final Decision indicating that it did not concur with ENGI's recommended remedial approach and selecting the full removal option as the remedy for the site. On December 2, 2011, ENGI filed an appeal of the NHDES Final Decision with the New Hampshire Waste Management Council. In March 2012, ENGI attended the Pre-Conference Hearing with the Council related to the appeal. Hearings on the matter were scheduled for October 18 and November 15, 2012. On July 26, 2012, the Hearing Officer granted an Assented to Motion to Continue the hearing until a date after January 3, 2013.

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During the period of time the appeal was subject to the continuance, the company, the New Hampshire Department of Justice and NHDES engaged in settlement discussions on a confidential basis. At the conclusion of those negotiations, NHDES and the company agreed on a final remedy for the site, which was approved by NHDES. That approval allowed ENGI to withdraw its appeal as of December 19, 2012, and proceed with implementation of the remedy. The town of Gilford was briefed on the agreed-upon remedy concurrently with NHDES approval and ENGI's withdrawal of the appeal.

ENGI has also performed numerous other activities requested by NHDES between 2008 and 2011, including remediation of the groundwater seep area near Jewett Brook in accordance with NHDES-approved September 2008 Initial Response Action Plan; evaluation of options for providing financial assurances to NHDES for the site remediation activities; coal tar recovery; semi-annual groundwater and surface water sampling activities; and drinking water well sampling. Groundwater sampling is reported to the NHDES in semi-annual reports. In addition, ENGI developed a Liberty Hill Road site website to assist in updating interested parties.

In conjunction with the Site Investigation work, ENGI has acquired 4 properties on Liberty Hill Road to facilitate remediation activities, and eliminate any potential risk to residents associated with a significant remediation and construction project. The properties were obtained based upon arms-length negotiations, and in one instance to settle potential litigation.

5. NEW HAMPSHIRE SITE REMEDIATION PROGRAM PHASE: On December 10, 2012, ENGI submitted a Conceptual Remedial Design Report to NHDES describing the approach for full removal. NHDES approved this Conceptual RAP Addendum design on December 18, 2012, and ENGI withdrew their appeal before the New Hampshire Waste Management Council on December 19, 2012. A public meeting was held in the Town of Gilford to present the approved Conceptual Remedial Design on January 23, 2013. The pre-design investigation to confirm extent and depth of contamination commenced on February 20, 2013 and was completed first week in April 2013. A public meeting was held on September 25, 2013 to present the design to the Town. The Remedial Design Report was finalized and approved by NHDES in December 2013. Plans and Specifications were developed concurrently, and the bidding process commenced in September 2013 with a Request for Information to ten (10) prospective contractors. On October 28, six (6) contractors were selected to participate in the bidding for the construction, with bids due back on December 6, 2013. On January 9, 2014, three (3) of the bidders were interviewed and Charter Environmental of Boston, MA (the Contractor) was selected for the project. A public meeting took place on February 12, 2014 to further

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explain details of the anticipated construction and to introduce the project team to the community. The Contractor mobilized to the site and began set-up in May 2014, with the first load of soil being hauled from the site on June 6, 2014. **Construction began to remove tar-impacted soil on the south side of the site in the first season, with little to no impact to the surrounding community. In 2014, approximately 65% of the impacted soil was removed for treatment. On April 8, 2015, ENGI presented the results of the first season of construction at a Gilford Town Select Board meeting, and presented expectations for the second season to the community. Starting on April 13, 2015, the north side of the site is being remediated this year, with the removal of all tar-impacted soil expected by July 31, 2015. The entire project is expected to be complete in the last half of September 2015.**

6. HISTORY AND CURRENT STATUS OF USE AND OWNERSHIP: ENGI is the successor by merger to Gas Service, Inc. (GSI). In 1945, GSI acquired the gas manufacturing assets of PSNH. The Laconia MGP, which began operating in 1894, was included in that transaction. Gas manufacturing took place at the property until 1952, when the MGP was converted to propane. Half of the property is now owned by Robert Irwin and maintained as an open field, and the other half is owned by PSNH, which operates an electric substation on the parcel.

The Liberty Hill Road parcel on which disposal was believed to have occurred was utilized as a gravel pit at the time of the disposal. It was subdivided in May 1970, and currently constitutes part of a residential subdivision.

7. LISTING AND STATUS OF INSURANCE AND 3RD PARTY LAWSUITS AND SETTLEMENTS: ENGI and PSNH entered into a confidential settlement in 1999. Under this agreement, PSNH took the lead on the MGP site investigation and remediation and all communications with NHDES. ENGI retained responsibility for any decommissioning-related liabilities, including off-site disposal.

Insurance recovery efforts are complete with respect to the MGP, and numerous confidential settlements have been entered into. In 2003 the United States District Court certified a question to the New Hampshire Supreme Court asking what “trigger of coverage” should be applied to the insurance policies issued by Lloyds of London to ENGI’s predecessor, Gas Service, Inc. In May, 2004 the Supreme Court responded that a “continuous injury-in-fact” trigger should be applied. The federal court conducted a jury trial against Lloyds of London - the only remaining defendant – in October 5, 2004. At the end of that trial the jury returned a verdict in favor of ENGI. Subsequent to the verdict, ENGI and Lloyds of London entered into a confidential settlement.

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With respect to Liberty Hill, insurance carriers have been placed on notice of a potential claim, but no litigation has been initiated. The Company does not expect to pursue any insurance litigation.

Note: This summary is an overview only and is not intended to be a comprehensive recitation of all relevant information relating to the site and the associated liability.

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1. SITE LOCATION: 130 Elm Street, Manchester, New Hampshire.
2. DATE SITE WAS FIRST INVESTIGATED: The New Hampshire Department of Environmental Services (NHDES) compiled a list of all former Manufactured Gas Plants (MGPs) in New Hampshire that were not already subject to a site investigation or remediation. In March of 2000, NHDES sent out notice letters to all parties it deemed responsible for the sites. EnergyNorth Natural Gas, Inc. (ENGI) received a "Notification of Site Listing and Request for Site Investigation" for the former Manchester MGP from NHDES, which designated the site DES #200003011.
3. NATURE AND SCOPE OF SITE CONTAMINATION: Residual materials from the former MGP have been identified at the site. These residuals, which include tars and oils, have been found mainly in subsurface soil at discrete locations and in groundwater at the former MGP, as well as in the downgradient Singer Park and river sediment.
4. SUMMARY OF MATERIAL DEVELOPMENTS AND INTERACTIONS WITH ENVIRONMENTAL AUTHORITIES:
 - On behalf of ENGI, Harding ESE, Inc. (Harding ESE), submitted a Scoping Phase Field Investigation Scope of Work to NHDES in March 2000.
 - NHDES approved the Scoping Phase Field Investigation Scope of Work in June 2000.
 - During the summer and fall of 2000, ENGI and Harding ESE conducted the Scoping Phase Field Investigation, collecting site background information and soil, groundwater, surface water and sediment samples from the former Manchester MGP and the nearby Merrimack River.
 - On August 31, 2000 an underground tank containing MGP residuals was discovered at the site. As required by NHDES regulations, the tank contents were removed and disposed of subject to a permit from NHDES. Harding ESE, on behalf of ENGI, submitted a summary report to NHDES in January 2001 documenting the response action.
 - ENGI and Harding ESE submitted the Scoping Phase Field Investigation Report to NHDES in February 2001.

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- NHDES provided comments to ENGI and Harding ESE in April 2001 on the Scoping Phase Field Investigation Report and requested a Phase II Investigation Scope of Work.
- ENGI responded to NHDES' comments on the Scoping Phase Investigation Report and indicated that ENGI planned to solicit bids for the Phase II Scope of Work.
- In July 2001, on behalf of ENGI, Harding ESE submitted a Scope of Work to NHDES to fence the ravine near the former Manchester MGP to prevent access to impacted sediments. In October 2001, NHDES accepted ENGI's fence installation plan, but requested clarification on the fence location and signage. In correspondence dated April 3, 2002, ENGI provided proposed language to NHDES for the signs to be attached to the ravine fence. NHDES approved the ravine sign language in April 2002.
- On May 1, 2002, ENGI issued a Request for Proposals to eight environmental consultants for the Phase II Site Investigation and Risk Characterization. ENGI received six proposals for the Phase II work in June 2002.
- In June 2002, the City of Manchester approved the ravine fence location and granted access to City property to install. The work was completed in August 2002.
- URS Consultants were awarded the contract to undertake the next phase of work. A Phase II Site Investigation Scope of Work was submitted in September 2002.
- Phase II field investigations began in the fall of 2002.
- In June 2003, the City of Manchester approved a proposal to construct a minor league ballpark, retail shops, parking garage, hotel and high-rise condominium complex on the Singer Park site, in the same general areas that MGP impacts were detected in ongoing Phase II investigations. Following supplemental ravine investigations during the spring and summer of 2003, the Drainage Ravine Engineering Evaluation was submitted to NHDES in January 2004, and presented four potential remedial alternatives for the ravine, which is located on a portion of Singer Park.
- ENGI had been a regular participant in monthly Singer Park redevelopment meetings with NHDES, the City of Manchester and the various developers from April 2003 until the regular meetings ended on November 15, 2004. ENGI had

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attended these coordination meetings to ensure that the environmental and construction aspects of the redevelopment were being addressed concurrently and that ENGI avoided incurring costs associated with another entity's contamination.

- ENGI entered into confidential agreements with Manchester Parkside Place (the owner of the ravine property) for access and cleanup of MGP byproducts in the ravine in January 2005.
- In January 2005, ENGI submitted a Remedial Design Report to NHDES selecting excavation and off-site disposal of source material and impacted soils as the remedial alternative for the ravine. NHDES approved of this alternative via a letter dated February 7, 2005. Eleven contractors were invited to bid on the ravine remediation in January 2005. The contract was awarded to the low bidder (ENTACT) in February 2005. Remediation of the ravine began in March and was completed in July 2005. A remedial completion report was submitted to NHDES on September 2, 2005.
- ENGI submitted a Phase II Site Investigation Report to NHDES in March 2004. The report concluded that MGP impacts (including impacted soil and groundwater and separate phase coal tar) were present in the subsurface beneath the 130 Elm Street property, portions of Singer Park at depth and the Merrimack River sediment. Further investigations were recommended by ENGI to further assess the nature and extent of this contamination and a work plan proposing those investigations was submitted to NHDES in May 2004 and approved in July 2004. These supplemental investigations were completed and documented in the Supplemental Phase II Investigation Report and the Stage I Ecological Screening Report for the Merrimack River, submitted to NHDES in February and March 2005, respectively. The reports concluded that Remedial Action Plans for the upland and Merrimack River portions of the site were required. On September 15, 2005, NHDES issued a letter accepting the reports and requested ENGI prepare a Remedial Action Plan (RAP) to address impacted sediments in the Merrimack River, as well as MGP-related impacts on the upland portion of the site. Preparation of the RAPs began in August 2006.
- Additional Merrimack River investigations were completed in 2007 and the Remedial Design Report for dredging approximately 9,000 cubic yards of coal tar-impacted sediments from the river was submitted to NHDES on May 11, 2007. ENGI applied for, and was granted, a Dredge and Fill Permit for the remedial dredging from NHDES and the United States Army Corps of Engineers on May 18, 2007. Dredging of the river commenced in June 2007 and was substantially completed by the end of the year. Final site restoration activities associated with

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- the sediment remediation were complete in May 2008. A Remedial Action Implementation Report documenting the sediment remediation activities was submitted to NHDES in May 2008.
- Certain pre-design investigations were completed on the upland portion of the site in 2008/2009. ENGI also completed interim Phase I Corrective Actions at the site, including pilot scale light non-aqueous phase liquid (LNAPL) recovery, pilot scale dense non-aqueous phase (DNAPL) recovery, and design for repair/replacement of a deteriorated portion of the site drainage system located within a known LNAPL area of the site. Limited surface soil removal activities were conducted during the summer/fall of 2008 in an area with detected Upper Concentration Limit exceedences in shallow soils.
 - ENGI was issued a Groundwater Management Zone (GMZ) permit No. GWP-200003011-M-001 for the former MGP site on June 15, 2009. The permit establishes a groundwater management zone in the vicinity of the former MGP site with associated notification/groundwater monitoring requirements. Groundwater monitoring events to support this GMZ permit have been ongoing, every April and October.
 - ENGI submitted an RAP for the upland portion of the site to NHDES on June 30, 2010. The remedial objectives for the site include control of mobile DNAPL, reduction in contaminant mass (where practicable), and management of residual contamination through the use of administrative controls. The recommended remedial alternative includes removal of the contents of certain subsurface structures where removal is anticipated to provide a reduction in the potential for the further release of DNAPL to the subsurface; NAPL recovery from the subsurface; construction of a barrier wall proximate to the Merrimack River to mitigate potential DNAPL migration; and use of administrative controls to address potential human exposure to residual soil and groundwater contamination. Additional investigation activities were recommended to support the preparation of Design Plans and Construction Specifications following NHDES approval of the RAP and to confirm the appropriateness of certain remedial alternatives recommended in the RAP.
 - In Fall 2010, ENGI performed storm drain rehabilitation activities on a deteriorated portion of the site drainage system that is located within a known LNAPL area. This work was performed to mitigate the migration of LNAPL to the Merrimack River via the storm drain system. These activities were mainly completed in late 2010.

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- In April 2011, NHDES approved of the upland RAP and requested that ENGI proceed with the additional investigation activities recommended in the June 2010 RAP. In addition, ENGI was contacted by both the developer and condominium association associated with the property directly downgradient of the site regarding potential impacts to the property, as well as the proposed remedy; ENGI met with both parties in early and mid-2011.
- After meeting with the developer of the property directly downgradient of the site at the potential location of the barrier wall regarding potential impacts to the property in September/October 2011, access was obtained to conduct certain approved pre-design off-site investigation activities as recommended in the June 2010 RAP. The off-property investigations were substantially completed in December 2011. A meeting was held with NHDES in December 2011 to discuss the results. A Remedial Design Report for the off-site property is currently being finalized.
- On-site pre-design investigation activities were conducted during the spring and summer of 2012 including: additional groundwater quality monitoring, former gas holder foundation test pit excavations, supplemental LNAPL delineation, cyanide source investigation test pit excavations, cyanide delineation and source investigation monitoring well installation, and storm drain inspection.
- Further storm drain inspections occurred during July and August 2013. The remedial design and construction specifications report was drafted including a summary of the design investigation activities and findings. The remedial design includes the monitoring and practicable recovery of NAPL at strategic on-site and off-site locations, as well as excavation of subsurface structures with concurrent source removal if encountered. The Remedial Design Report also summarizes the results of cyanide source investigation and delineation work, with further source delineation work anticipated. In addition to routine Groundwater Management Permit (GMP) sampling and reporting, an application for GMP renewal was also submitted to NHDES during June 2014. **The Remedial Design Report was submitted to NHDES on December 19, 2014.**

5. NEW HAMPSHIRE SITE REMEDIATION PHASE: Phase I Site Investigation complete. Phase II Site Investigation complete and supplemental report submitted to NHDES in February 2005. Remedial Action Plan (RAP) for the ravine submitted and approved by NHDES in 2005; remediation of ravine completed in July 2005. Remediation of the river sediment was completed in 2007. A RAP for the upland portion of the site was submitted to NHDES for review on June 30, 2010. NHDES issued its approval of the RAP for the upland portion of the site in a letter dated April 11, 2011. **The Remedial Design Report**

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summarizing the activities for addressing on-site and off-site impacts was submitted on December 19, 2014.

6. HISTORY AND CURRENT STATUS OF USE AND OWNERSHIP: The former Manchester MGP is believed to have started producing coal gas in 1852. Gas was produced at the site by the Manchester Gas Company and its predecessors until the MGP was shut down in 1952 when natural gas was supplied to the city via pipeline. ENGI is the successor by merger to the Manchester Gas Company. ENGI continues to own and operate the 130 Elm Street property as an operations center.
7. LISTING AND STATUS OF INSURANCE AND 3RD PARTY LAWSUITS AND SETTLEMENTS: In late 2000, ENGI filed suit against UGI Utilities, Inc. in the United States District Court for the District of New Hampshire, alleging that during much of the early part of the 20th century, a predecessor to that entity "operated" the Manchester Gas Plant, as defined by the Comprehensive Environmental Response, Compensation and Liability Act (commonly referred to as "CERCLA" or "Superfund"). This claim was similar to a claim litigated and ultimately settled by the parties in the late 1990s, related to the former gas plant in Concord, NH. The case went to trial in June 2003 and was settled after 8 days of trial.

Insurance recovery efforts are complete, and confidential settlements have been entered into with all insurance company defendants. An agreement with the last remaining insurance carrier was negotiated in August 2008, under which that carrier paid ENGI's attorneys fees incurred in the litigation. That settlement came about after a ruling from the New Hampshire Supreme Court, in response to a question certified by the United States District Court, on allocation of coverage, and the scope and meaning of NH RSA 491:22-a, as it relates to awards of attorneys fees. *EnergyNorth Natural Gas, Inc. v. Certain Underwriters at Lloyds*, 156 N.H. 333 (2007). As to allocation, the Court ruled as proposed by the carrier that insurance coverage should be allocated on a *pro rata* basis when multiple policies are triggered by an ongoing event. ENGI had argued for an "all sums" allocation approach in which the insured could choose the policy years from which to obtain indemnity. With respect to attorneys fees, the Court held that "[i]f the insured has obtained rulings that require the excess insurer to indemnify it, the insured has prevailed within the meaning of RSA 491:22-b, and is immediately entitled to recover its reasonable attorneys' fees and costs. Recovery of these fees and costs does not depend on whether, after all is said and done; the excess insurer actually has to pay any indemnification. The insured becomes entitled to the fees and costs once it obtains rulings that demonstrate there is coverage under the excess insurance policy." Under that finding, the insurance carrier was obligated to reimburse attorneys fees even if the *pro rata* allocation analysis resulted in the carrier owning no indemnity.

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MANCHESTER FORMER MGP

LINE
NO.

Note: This summary is an overview and is not intended to be a comprehensive recitation of all relevant information relating to the site and the associated liability.

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d/b/a LIBERTY UTILITIES

NASHUA FORMER MGP

LINE
NO.

1. SITE LOCATION: 38 Bridge Street, Nashua, New Hampshire.
2. DATE SITE WAS FIRST INVESTIGATED: At the end of 1998, the New Hampshire Department of Environmental Services (NHDES) sent a "Notification of Site Listing and Request for Site Investigation" for the former Nashua Manufactured Gas Plant (MGP) to the former plant owners/operators: EnergyNorth Natural Gas, Inc. d/b/a National Grid (ENGI), and Public Service Company of New Hampshire (PSNH) and its parent company, Northeast Utilities Services Company (NU). NHDES designated the site DES #199810022.
3. NATURE AND SCOPE OF SITE CONTAMINATION: Residual materials from the former MGP have been identified at the site and in the adjacent Nashua River. These residuals, which include tars and oils, have been found mainly in subsurface soil at discrete locations, in groundwater, and in localized river sediments.
4. SUMMARY OF MATERIAL DEVELOPMENTS AND INTERACTIONS WITH ENVIRONMENTAL AUTHORITIES:
 - Prior to the time NHDES issued its notice letter to ENGI, the US Environmental Protection Agency (EPA) was remediating contamination (asbestos) at the former Johns Manville plant located adjacent to, and downstream from the 38 Bridge Street property. In the course of that work, EPA detected what it determined to be MGP related residuals in Nashua River sediments containing asbestos. EPA sought reimbursement from ENGI and PSNH of only those incremental additional costs it incurred to dispose of sediments containing MGP related wastes in addition to asbestos. ENGI and PSNH entered into a settlement agreement with the EPA at the end of September 2000. Under the terms of the agreement, each company received a release from liability associated with the so-called Nashua River Superfund Site and contribution protection against future claims associated with that site. The settlement agreement made it clear that EPA does not contend that ENGI or PSNH contributed any asbestos to the Nashua River.
 - In response to the 1998 notice from NHDES, QST Environmental, Inc. (QST, subsequently Environmental Science and Engineering, Inc. (ESE), and later Harding ESE, Inc. (Harding ESE)), submitted a Scoping Phase Field Investigation Scope of Work to NHDES on behalf of ENGI in February 1999.
 - In response to comments from NHDES, QST and ENGI refined the Scope of Work for the Scoping Phase Field Investigation and resubmitted to NHDES in April 1999.

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LINE
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- NHDES approved the refined Scoping Phase Field Investigation Scope of Work in May 1999.
- During the summer of 1999, ENGI and QST conducted the Scoping Phase Field Investigation, collecting site background information and soil, groundwater, surface water and sediment samples from the former Nashua MGP and the adjacent Nashua River.
- ENGI and ESE submitted the Scoping Phase Field Investigation Report to NHDES in December 1999.
- NHDES provided comments to ENGI and ESE in February 2000 on the Scoping Phase Field Investigation Report and requested a Phase II Investigation Scope of Work.
- On behalf of ENGI, ESE submitted a Draft Phase II Investigation Work Plan to NHDES in April 2000.
- ENGI and ESE met with the NHDES site manager in April 2000 to discuss the Draft Phase II Investigation Work Plan.
- NHDES provided written comments on the Draft Phase II Investigation Work Plan in June 2000.
- ENGI and ESE met with NHDES in August 2000 to discuss NHDES' comments on the Phase II Work Plan.
- ENGI submitted a letter to NHDES in August 2000 discussing revisions to the Draft Phase II Investigation Work Plan in response to comments from NHDES and PSNH/NU, along with a proposed schedule for implementation of the work.
- NHDES approved the Revised Phase II Work Plan for the site at the end of August 2000.
- NHDES provided comments to ENGI and Harding ESE on the proposed schedule for Phase II Work Plan implementation in September 2000.
- ENGI submitted an addendum to the Phase II Work Plan, including a proposed approach for risk evaluation, to NHDES in November 2000.

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LINE
NO.

- Subsequent to meetings and discussions throughout 2000, ENGI and PSNH reached agreement in late 2000 regarding sharing of costs for the remediation work and transfer of management of the remediation work to ENGI.
- Harding ESE implemented the Phase II Work Plan during the fall and winter of 2000/2001. Work entailed a comprehensive field program that included the advancement of river borings and collection of sediment samples as well as the installation of borings and monitoring wells on and off the property.
- NHDES provided comments on the Phase II Work Plan addendum in February 2001.
- Harding ESE responded to NHDES comments on the Phase II Work Plan addendum in March 2001.
- In May 2001, ENGI submitted to NHDES a Draft Site Conceptual Model to assist with finalization of the Phase II Work Plan Addendum and met with NHDES to discuss.
- ENGI and Harding ESE revised the Draft Site Conceptual Model and outlined supplemental field activities to be included in the Phase II Work Plan Addendum and submitted to NHDES in June 2001.
- In July 2001, ENGI and Harding ESE met with NHDES to review the Site Conceptual Model and proposed Phase II supplemental investigation activities.
- ENGI and NHDES met in August 2001 to discuss the overall site objectives.
- In September 2001, Harding ESE, on behalf of ENGI, submitted a Phase IIB Supplemental Site Investigation (SI) Scope of Work to NHDES.
- NHDES provided verbal approval for the Phase IIB Supplemental SI, and Harding ESE initiated the field program on behalf of ENGI in October 2001.
- NHDES provided written approval of the Phase IIB Supplemental SI in October 2001. A modification to the proposed scope of work relating to investigations adjacent to the gas lines was proposed and verbal approval was obtained from NHDES on November 19, 2001.

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NASHUA FORMER MGP

LINE
NO.

- Property owners north of the Nashua River did not provide access to install monitoring wells proposed in the Phase IIB SOW. Harding ESE completed all on-site work outlined in the Phase IIB SOW in February 2002.
- ENGI received access from PSNH to install Phase IIB monitoring wells west of the site in March 2002.
- Harding ESE installed additional groundwater monitoring wells west of the site in March and sampled all newly installed monitoring wells in April 2002. All work outlined in the Phase IIB SOW was completed except for the proposed monitoring wells north of the Nashua River where access was denied.
- The Phase II Report was submitted to NHDES in February 2003. The report was approved by NHDES in August 2003. At the time of approval, NHDES required ENGI to begin work on the Remedial Action Plan for the site, due in 2004.
- ENGI met with NHDES on November 3, 2003, to review the proposed remedial schedule, which called for the Remedial Action Plan to be submitted in July 2004, and remediation to occur in 2005. NHDES approved the schedule by letter dated December 1, 2003. In that letter they concurred with ENGI's request to divide the site into terrestrial and aquatic portions, to facilitate remediation of sediments concurrent with re-armoring of ENGI's gas mains crossing the river.
- By way of a May 5, 2004 letter, ENGI requested that NHDES waive the Remedial Action Plan (RAP) requirement for the aquatic portion of the site and allow ENGI to proceed with capping sediments in conjunction with gas main rearmoring, which was scheduled for completion in 2004. NHDES approved the request by letter dated May 14, 2004.
- ENGI held pre-application meetings with state and federal agencies (NHDES Wetlands Bureau, United States Army Corps of Engineers, United States Department of Fish and Wildlife, United States Environmental Protection Agency and National Oceanic and Atmospheric Administration) in June 2004. These meetings were held in advance of permit application submission for the capping/rearmoring project, to review the project and expedite the approval process. The application was submitted to these agencies as well as the City of Nashua on July 1, 2004. On July 6, 2004, NHDES deemed the permit application administratively complete. The hearing was closed on July 26, 2004 and the permit was issued in September 2004. The capping and re-armoring was

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NASHUA FORMER MGP

LINE
NO.

completed in October 2004 and the Remedial Completion Report, submitted to NHDES in January 2005, was subsequently approved.

- In October 2005, ENGI submitted the Terrestrial Remedial Action Plan to NHDES, and the document was deemed complete by NHDES in March 2006. NHDES requested supplemental information to be submitted before ENGI proceeded with remediation, and in 2007 ENGI gathered the requested data.
- In November 2007, ENGI submitted a Workplan for DNAPL Recovery Pilot Test to NHDES and the document was approved by NHDES on November 14, 2007.
- ENGI applied for three permits required for the implementation of the NHDES-approved DNAPL pilot testing activities: Nashua Conservation Commission Permit, Nashua Zoning Board of Appeals Permit and NHDES Dredge and Fill Permit. ENGI attended numerous hearings related to obtaining the permits and obtained the three permits on April 21, 2008, April 23, 2008 and May 31, 2008, respectively.
- In June 2008, ENGI installed six extraction wells for DNAPL recovery pilot testing at the site. ENGI completed the construction of the coal tar recovery system trailer (i.e., the equipment that will be used to pump, collect and temporarily store the coal tar) in December 2008. Trenching for the subsurface piping and final system installation was delayed in late 2008 due to weather. ENGI performed manual DNAPL recovery throughout 2008 and the first three quarters of 2009.
- In Spring 2009, ENGI began trenching and final system installation activities for the DNAPL recovery pilot testing. The trenching, pump installations and system electrical work were completed in July 2009. Electrical service was installed in late August 2009. The system was started up in November 2009 and has been operational since that time.
- In September 2010, ENGI submitted an Installation Summary and DNAPL Recovery Pilot test summary report to NHDES. This report recommended that DNAPL extraction activities continue. In October 2010, a work plan for an off-site groundwater investigation program to support the delineation of a Groundwater Management Zone was submitted to NHDES. This work plan was approved by NHDES in a letter dated November 5, 2010. Access negotiations and environmental permitting for the NHDES-approved investigation were completed in June 2011.

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LINE
NO.

- The NHDES-approved subsurface soil and groundwater investigation program was initiated on September 26, 2011. The goal of this program was to delineate a Groundwater Management Zone for the site, and allow for the filing of a Groundwater Management Permit (GMP). Due to known asbestos in the off-site area to be investigated, ENGI submitted an "In-active Asbestos Disposal Site (ADS) Work Plan"; NHDES approved the asbestos work plan in October 2011. Soil boring and well installation work was performed between October and December 2011. An In-active ADS Site Completion Report was submitted to and accepted by NHDES on May 4, 2012. Groundwater sampling events were conducted in February and May 2012. A meeting to discuss the preliminary results of the Groundwater Management Zone (GMZ) investigation program with NHDES took place on August 16, 2012. It was agreed that two more rounds of groundwater sampling should occur before a delineation of the GMZ is considered.
- On November 27, 2012 and December 6, 2012, 8.25 feet and 10.83 feet of DNAPL appeared in MW-106, situated in the foot print of historical Holder #2. A weekly monitoring and removal plan was initiated at this time and is ongoing as of July 2013. To date, 109 gallons of DNAPL has been removed manually, in addition to the system removal discussed above.
- In January 2013, a Supplemental Investigation Report (SIR) and DNAPL Recovery System Pilot Test Progress report was submitted to NHDES reporting on additional investigation activities, including the installation of sixteen additional wells in 2011, and the May and September 2012 (second and third of three) rounds of sampling to define groundwater quality and hydrogeologic conditions at the site, so that the GMZ can be delineated. Additionally, the report includes information regarding DNAPL recovery system O&M activities and DNAPL recovery rates demonstrating that the system still effectively recovers DNAPL. A meeting with NHDES took place on March 22, 2013 to discuss these results and next steps.
- NHDES responded to the January 2013 submittal via letter dated May 21, 2013 accepting the SI Report and authorizing ENGI to proceed with the delineation of the GMZ in order to submit a Groundwater Management Permit (GMP) application, and the preparation of a revised Remedial Action Plan (RAP) for the terrestrial portion of the site.
- ENGI responded to the NHDES letter on June 19 with a schedule targeting December 31, 2013 for submittal of the GMP application and revised RAP.

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NASHUA FORMER MGP

LINE
NO.

- In December 2013 ENGI submitted a request to revise the RAP. The purpose of the request was to summarize activities conducted since submittal of the 2013 Supplemental Investigation Report and to propose a revision to the approved RAP for the area on site known as "Holder # 2."
- The RAP submitted in 2005 selected asphalt capping in the area of Holder #2. The entire area of the Holder was not designated to be capped with asphalt. At the time of the preparation of the RAP, separate phase NAPL was not considered to be present in recoverable quantities in Holder #2. In order to address what appears to be a limited area and quantity of NAPL in a monitoring well in Holder #2, continued manual NAPL recovery from two additional wells in the Holder #2 area was proposed as part of the GMP monitoring program.
- In addition to the NAPL recovery activity, the area of asphalt capping was proposed to be expanded to include all of former Holder #2. This expansion of paving will also address the asbestos contaminated material (ACM) present in this area of the site. The asphalt cap detail presented in the proposed RAP revision will be modified (as necessary) to address the relevant solid waste regulations for ACM in soil.
- On June 4, 2014, the NHDES approved of the requested RAP revision and required that a RAP Summary Report, with the necessary engineering details for the selected remedies, be provided. ENGI plans to submit this RAP Summary Report by December 31, 2014.
- The GMP Application was submitted in March 2014. The GMP proposed a list of monitoring wells and analytical methods in order to monitor the Groundwater Management Zone.
- On June 5, 2014, the NHDES approved the GMP application. This Permit was issued for a period of 5 years requiring the monitoring of groundwater quality, assessing and recovering any free product found, and visually inspecting the Nashua River sediment cap area. During the first year of the Permit, monitoring events will be conducted in October 2014 and April 2015. Annual summary reports are to be submitted to the NHDES in January of each year.
- The first groundwater monitoring annual summary report was submitted to NHDES in February 2015, and included the groundwater data from the first GMP round of sampling on October 27, 2014

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NASHUA FORMER MGP

LINE
NO.

5. NEW HAMPSHIRE SITE REMEDIATION PROGRAM PHASE: All Supplemental Phase II Site Investigation Work that could be performed (based on property access) has been completed. Phase II Report was submitted to NHDES in February 2003, and approved by NHDES on August 28, 2003. Remediation of the Nashua River sediments was completed in the fall of 2004. A Remedial Action Plan (RAP) for the upland and groundwater was submitted in October 2005, and approved by NHDES in March 2006. DNAPL recovery is on-going. A Groundwater Management Permit was granted on June 5, 2014. **A RAP Summary involving the asphalt capping of the area over Holder #2 and continued groundwater monitoring was submitted on April 2, 2015. A Monitoring Summary and Progress Report was submitted by ENGI on February 7, 2015. NHDES accepted the RAP Summary on April 10, 2015, with the provisions that ENGI submit the draft Activity and Use Restriction (AUR) and final engineering design plan for the cap by September 15, 2015. ENGI is preparing these submittals.**
6. HISTORY AND CURRENT STATUS OF USE AND OWNERSHIP: The Nashua Gas Light Company built the original coal gas facility in 1852 or 1853. In 1889, the Nashua Gas Light Company merged with the Nashua Electric Company to form the Nashua Light, Heat and Power Company (NHLPC). In 1914, the NHLPC merged with the Manchester Traction Light & Power Company, and PSNH acquired the facility in 1926. The MGP facility was upgraded and expanded. In 1945, PSNH divested the gas operations to Gas Service, Inc. Gas production was eliminated in 1952 when natural gas was supplied to the city via pipeline. In 1981, Gas Service, Inc. merged with Manchester Gas Company to form ENGI. ENGI currently owns the majority of the former gas plant property.
7. LISTING AND STATUS OF INSURANCE AND 3RD PARTY LAWSUITS AND SETTLEMENTS: The EPA made a claim against ENGI and PSNH related to the so-called Nashua River Asbestos Site located adjacent to the former MGP. EPA was removing asbestos from the Nashua River, when some was found to be mixed with wastes allegedly from the MGP. Without admitting any facts or liability, by agreement effective December 21, 2000, ENGI resolved EPA's claim in exchange for a payment of \$387,371.46, plus interest accrued between settlement and final approval of an administrative consent order by EPA.

ENGI and PSNH have entered into a confidential Site Responsibility and Indemnity Agreement effective as of September 15, 2000, which governs the financial and decision-making responsibilities of the two companies through the remainder of site study and remediation. Under this agreement, ENGI will take the lead on site investigation and remediation.

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NASHUA FORMER MGP

LINE
NO.

Numerous, confidential insurance settlements have been entered into. A jury trial commenced against the London Market Insurers and Century Indemnity on November 1, 2005. On November 14, 2005, the jury returned a verdict in favor of EnergyNorth finding that the defendants were obligated to indemnify EnergyNorth for response costs incurred at the site. The Court then awarded ENGI its reasonable costs and attorneys fees to be paid by the defendants. Subsequent to the verdict, the London Market and ENGI entered into a confidential settlement. Century appealed to the First Circuit Court of Appeals in the summer of 2006. However, on the day its brief was due at the First Circuit, Century withdrew its appeal. Because the site has not yet been remediated, the jury was not asked to make a damage determination. Future proceedings will take place after the remedy has been approved by the NHDES to determine the indemnification amounts to be paid by Century. The New Hampshire Supreme Court's ruling and guidance on the proper manner in which costs are to be allocated among insurers (discussed in more detail in the Manchester MGP summary) will be used in the calculation of that figure.

Note: This summary is an overview only and is not intended to be a comprehensive recitation of all relevant information relating to the site and the associated liability.

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d/b/a LIBERTY UTILITIES

DOVER FORMER MGP

LINE
NO.

1. SITE LOCATION: Intersection of Cocheco Street and Portland Street, Dover, New Hampshire.
2. DATE SITE WAS FIRST INVESTIGATED: In 1999, NHDES sent notice letters to current and former site owners and operators including: Public Service Company of New Hampshire (PSNH) and its parent company, Northeast Utilities (NU).; EnergyNorth Natural Gas, Inc. (ENGI); Northern Utilities, Inc.; and Central Vermont Public Service Company (CVPS). It is the company's understanding that NHDES sent a notice to the current site owner, Estelle Maglaras, earlier. NHDES designated the site DES #198401047.
3. NATURE AND SCOPE OF SITE CONTAMINATION: According to the August 2002 Supplemental Site Investigation Report, the evaluation of the nature and extent of MGP impacts to the site has been completed. Residual materials from the former MGP have been identified at the site and in the adjacent Cocheco River. These residuals, which include tars, oils, and purifier waste, have been found in surface soil, subsurface soil, groundwater, and river sediment.
4. SUMMARY OF MATERIAL DEVELOPMENTS AND INTERACTIONS WITH ENVIRONMENTAL AUTHORITIES:
 - During late 1999 and early 2000, PSNH/NU took the lead on preparation of a Site Investigation Report. PSNH/NU submitted the report to NHDES and the other potentially responsible parties (PRPs) in February 2000.
 - The PRPs held meetings and discussions during 2000 regarding site responsibility and liability.
 - Following an October meeting between NHDES, PSNH/NU, ENGI, and CVPS, Metcalf & Eddy, Inc. (M&E) submitted a Supplemental Site Investigation Work Plan to NHDES on behalf of PSNH/NU, ENGI, and CVPS to NHDES in December 2000.
 - NHDES provided written comments on the Supplemental Site Investigation Work Plan in April, 2001.
 - M&E submitted a letter response to NHDES comments on the Work Plan to NHDES in early June 2001.

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DOVER FORMER MGP

LINE
NO.

- NHDES approved the Supplemental Site Investigation Work Plan and letter addendum in late June 2001.
 - PSNH/NU, in conjunction with CVPS and ENGI, submitted the M&E Supplemental Site Investigation Report to the DES on August 9, 2002.
 - Since 2002, PSNH has conducted work at the site without ENGI's active involvement. NHDES is aware of the situation. **Please contact PSNH or refer to PSNH/NU filings with NHDES for complete information on material developments and interactions with environmental authorities.**
5. NEW HAMPSHIRE SITE REMEDIATION PHASE: Supplemental Site Investigation completed. Please contact PSNH or NHDES for current status.
6. HISTORY AND CURRENT STATUS OF USE AND OWNERSHIP: ENGI is the successor by merger to Gas Service, Inc (GSI). In 1945, GSI acquired the gas manufacturing assets of PSNH. The Dover MGP, which began operation in 1850, was included in that transaction. GSI operated the Dover MGP until 1956, when it was sold to Allied New Hampshire Gas Company (Allied). Approximately 10 months after that sale, the MGP was shut down when natural gas arrived in Dover. Allied merged into Northern Utilities in 1969, and Northern Utilities continued to own the property until 1978. At that time, the property was sold to Estelle Maglaras, the current owner. The majority of the property is used by the Maglaras family as a marina and boatyard. Northern Utilities, Inc. maintains a regulator station on a small portion of the former MGP property.
7. LISTING AND STATUS OF INSURANCE AND 3RD PARTY LAWSUITS AND SETTLEMENTS: Mediation between PSNH, ENGI, CVPS and Northern Utilities for allocation was undertaken in the fall of 2001 but was not successful. Since that time, PSNH reached a confidential settlement and allocation with CVPS, and has taken the lead on site investigation and remediation activities. Please contact PSNH or refer to PSNH/NU filings with NHDES for complete information on material developments. PSNH and ENGI have attempted to negotiate an allocation but thus far have been unsuccessful.

Insurance recovery efforts are complete, and resulted in several confidential settlements as well as a judgment in favor of coverage. Trial was conducted in the United States District Court in February, 2005. At the close of the defendant's case, the court directed a verdict in ENGI's favor on the issue of coverage determining that the defendant is liable for environmental costs related to the site. In May, 2005, the court ordered Century Indemnity to reimburse ENGI's attorneys' fees and costs associated with the litigation. In June 2005, the Court issued an Amended Judgment awarding fees to ENGI. Century appealed the Amended Judgment and oral argument was heard in January 2006. Century's appeal was

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DOVER FORMER MGP

LINE
NO.

denied by the Court in June 2006, and ENGI was ultimately awarded its attorneys fees associated with that appeal.

Note: This summary is an overview and is not intended to be a comprehensive recitation of all relevant information relating to the site and the associated liability.

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d/b/a LIBERTY UTILITIES

KEENE FORMER MGP

LINE
NO.

1. SITE LOCATION: 207 and 227 Emerald Street, Keene, New Hampshire.
2. DATE SITE WAS FIRST INVESTIGATED: Information on site investigation activities comes from reports prepared by Public Service Company of New Hampshire (PSNH). It is apparent the New Hampshire Department of Environmental Services (NHDES) first investigated Mill Creek adjacent to the former Keene Manufactured Gas Plant (MGP) in 1986. PSNH, a former owner and operator, and its parent company, Northeast Utilities Service Company (NU), conducted several site assessments of the former MGP during the early and mid-1990s. PSNH/NU completed a Site Investigation in 1996 in response to a notice letter from the NHDES, which designated the site DES # 199412009. PSNH/NU has had responsibility for site management and interactions with NHDES since that time. Although it does not appear to have been actively involved in the site study, Keene Gas Corporation (KGC) received a notice letter from NHDES in January 1999. In response to a request from PSNH/NU, NHDES sent a notice letter to EnergyNorth Natural Gas, Inc. (ENGI) in April 2001. ENGI responded to the NHDES on April 27, 2001, indicating that it would continue to coordinate with PSNH and that it was evaluating its potential liability, if any, at the site.
3. NATURE AND SCOPE OF SITE CONTAMINATION: Residual materials from the former MGP have been identified at the site in sediments of the adjacent Mill Creek and Ashuelot River. Removal of impacted sediment areas constituting readily apparent harm and restoration of the creek bed and portions of the river bed is the likely remedial alternative for the aquatic portion of the site.
4. SUMMARY OF MATERIAL DEVELOPMENTS AND INTERACTIONS WITH ENVIRONMENTAL AUTHORITIES: ENGI entered into a confidential agreement with PSNH relative to the development and execution of a Remedial Action Plan (RAP) for the aquatic portion of the site in January 2005. Subsequently, in March 2005, ENGI and PSNH/NU submitted a Scope of Work for the ecological evaluation of the Ashuelot River Sediments to NHDES, and met with NHDES on April 25, 2005 to discuss the conceptual RAP (consisting of sediment removal and stream bed restoration) for Mill Creek/Ashuelot River. NHDES approved the scope of the ecological evaluation, and it was conducted in 2005. In February 2006, PSNH submitted a scope of work for a supplemental investigation of the Ashuelot River, which was approved by NHDES in April 2006. This work was completed and in February 2007 NHDES requested the preparation of a Remedial Action Plan (RAP) for Mill Creek and a portion of the Ashuelot River. NHDES files indicate that PSNH submitted the RAP in 2008 and completed permitting and obtaining access from private property owners for the Mill Creek and Ashuelot River remediation activities in 2010. Subsequently, a remedial contractor was a selected, and

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KEENE FORMER MGP

LINE
NO.

Phase II RAP implementation is underway. According to NHDES files, remedial actions in the Mill Creek and Ashuelot River continued in late 2011/2012. According to NHDES files, remedial actions in the Mill Creek and Ashuelot River continued through 2011. **In October 2012, NU/PSNH completed the remediation project. The tri-annual groundwater monitoring program/reporting continues.**

5. NEW HAMPSHIRE SITE REMEDIATION PROGRAM PHASE: Remediation of the terrestrial portion of the site was completed by PSNH/NU in 2004/2005. An ecological risk assessment in support of a Remedial Action Plan for the Ashuelot River and Mill Creek portions of the site was conducted jointly by ENGI and PSNH/NU in 2005. A supplemental investigation of the Ashuelot River to support the preparation of a Remedial Action Plan (RAP) was completed in 2007 and NHDES has requested PSNH/NU submit the RAP for Mill Creek and portions of the Ashuelot River in 2007. NHDES files indicate that the RAP was submitted by PSNH in 2008 and that NHDES commented and approved the Phase II RAP. NHDES and other public information sources indicate that remedial and wetland permitting is complete, necessary approvals and site access agreements with impacted landowners are complete, a remedial contractor has been selected, and Phase II RAP implementation is on-going. PSNH has taken the lead on investigation at this Site, and has conducted this work without ENGI's active involvement. NHDES is aware of the situation. **Please contact PSNH or refer to PSNH/NU filings with NHDES for complete information on material developments and interactions with environmental authorities.**
6. HISTORY AND CURRENT STATUS OF USE AND OWNERSHIP: Given its status at the site, ENGI has not yet conducted a thorough evaluation of its history. It is known that the plant became operational in approximately 1860 and operated as a manufactured gas plant until 1952, after which it was converted to butane and later to propane. Gas Service, Inc., a predecessor of ENGI, owned the former MGP between October 1945 and its closure in 1952. Gas Service continued to own the property until it was sold to KGC in 1979. KGC continues to operate a propane-air plant at the site. Please contact PSNH or refer to PSNH/NU filings with NHDES for complete information on site history, use and ownership.
7. LISTING AND STATUS OF INSURANCE AND 3RD PARTY LAWSUITS AND SETTLEMENTS: Insurance recovery claims are underway, and confidential settlements have been entered into with all but one defendant. The case is currently stayed. Trial had been scheduled for October 2006 against the sole remaining insurance company defendant, Century Indemnity, however that trial was put off while awaiting a ruling on an issue of law in the Manchester MGP litigation by the New Hampshire Supreme Court.

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KEENE FORMER MGP

LINE
NO.

The Supreme Court has since ruled on the appropriate method of allocating indemnification obligations among multiple insurers and the applicability of the New Hampshire attorneys fees statute, RSA 491:22-a, which is relevant to the Keene case. In that case, EnergyNorth Natural Gas, Inc. v. Certain Underwriters at Lloyds, 156 N.H. 333 (2007), the Court ruled as proposed by the carrier that insurance coverage should be allocated on a *pro rata* basis when multiple policies are triggered by an ongoing event. ENGI had argued for an "all sums" allocation approach in which the insured could choose the policy years from which to obtain indemnity. With respect to attorneys fees, the Court held that "[i]f the insured has obtained rulings that require the excess insurer to indemnify it, the insured has prevailed within the meaning of RSA 491:22-b, and is immediately entitled to recover its reasonable attorneys' fees and costs. Recovery of these fees and costs does not depend on whether, after all is said and done, the excess insurer actually has to pay any indemnification. The insured becomes entitled to the fees and costs once it obtains rulings that demonstrate there is coverage under the excess insurance policy." Under that finding, the insurance carrier was obligated to reimburse attorneys fees even if the *pro rata* allocation analysis resulted in the carrier owning no indemnity.

ENGI intervened in Docket DE 98-123, the proceeding in which the Commission considered the proposed transfer of operating assets from Keene Gas Corporation (KGC) to New Hampshire Gas Corporation (NHGC). ENGI opposed the proposed transfer because it was concerned that the transfer was likely to create a significant, and possibly insurmountable, obstacle to the potential for KGC customers to share in responsibility for any costs associated with environmental liabilities at the Keene MGP site. At the time, ENGI had not been named as a potentially responsible party for the Keene MGP site, nor had it been notified by any PRP of any claimed liability for the site. Nevertheless, ENGI was aware of the possibility that it would receive such a notice at some point in the future. In the KGC/NHGC proceeding, ENGI proposed that the Commission condition any approval of the proposed transfer on NHGC's willingness to assume responsibility for KGC's liability with regard to the site. The Commission ultimately approved the transfer of assets without imposing such a condition, finding among other things that liability for environmental contamination at the Keene MGP site remained speculative at that time and that assignment of any such liability to various parties was not appropriate for determination by the Commission.

On August 30, 2013, ENGI received a Demand Letter from PSNH for reimbursement of clean-up costs at the Keene former MGP plant. On February 27, 2014, ENGI and PSNH entered into a mediated cost allocation settlement that resolved the matter. Under that agreement, ENGI will pay some of the remediation expense incurred by PSNH.

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
d/b/a LIBERTY UTILITIES

KEENE FORMER MGP

LINE
NO.

Note: This summary is an overview only and is not intended to be a comprehensive recitation of all relevant information relating to the site and the associated liability.

ENERGYNORTH NATURAL GAS, INC.
MANUFACTURED GAS PLANT ENVIRONMENTAL COSTS

REDACTED

2015 SUMMARY BY SITE

| | | | 1101 | 1102 | 1105 | 1106 | 1107 | | 1108 | 1109 | |
|---------------------|----------------------|---------|----------------|---------------------|-----------------------|---------------------|----------------|----------------------------|----------------------------------|------------------------------------|---------------|
| LINE NO. | SITE | REF NO. | LEGAL EXPENSES | CONSULTING EXPENSES | REMEDICATION EXPENSES | SETTLEMENT EXPENSES | OTHER EXPENSES | 100 % RECOVERABLE EXPENSES | INSURANCE & THIRD PARTY EXPENSES | INSURANCE & THIRD PARTY RECOVERIES | TOTAL |
| | Concord Pond | DEF056 | - | 79,719.57 | - | - | 9,906.55 | 89,626.12 | | | 78,234.56 |
| | Concord MGP | DEF077 | - | 187,305.04 | - | - | 5,219.96 | 192,525.00 | | | 163,783.28 |
| | Laconia/Liberty Hill | DEF086 | 135.00 | 735,587.10 | 6,797,613.29 | - | 232,921.36 | 7,766,256.75 | | | 7,766,256.75 |
| | Manchester MGP | DEF057 | - | 71,286.12 | - | - | 45,210.24 | 116,496.36 | | | 75,439.59 |
| | Nashua MGP | DEF054 | - | 93,004.37 | - | - | 12,912.45 | 105,916.82 | | | 65,217.46 |
| | Dover MGP | DEF059 | - | - | - | - | - | - | | | - |
| | Keene MGP | DEF055 | 462.50 | - | - | - | 57.44 | 519.94 | | | 2,500,519.94 |
| | General Expenses | DEF064 | 1,184.50 | - | - | - | 15,427.77 | 16,612.27 | | | (7,637.72) |
| Total Pool Activity | | | 1,782.00 | 1,166,902.20 | 1,168,684.20 | - | 321,655.77 | 8,287,953.26 | 2,500,000.00 | (146,139.40) | 10,641,813.86 |

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
 MANUFACTURED GAS PLANT ENVIRONMENTAL COSTS
 NASHUA - REMEDIATION
 PROJECT DEF054

REDACTED

| | | | 1101 | 1102 | 1105 | 1106 | 1107 | | 1108 | 1109 | |
|----------------------------|--|-----------------|----------------|---------------------|---------------------|---------------------|------------------|-------------------|---------------------------------|------------------------------------|------------------|
| LINE NO. | VENDOR | REF NO. | LEGAL EXPENSES | CONSULTING EXPENSES | REMEDATION EXPENSES | SETTLEMENT EXPENSES | OTHER EXPENSES | SUBTOTAL EXPENSES | INSURANCE & THIRD PARTY EXPENSE | INSURANCE & THIRD PARTY RECOVERIES | TOTAL SUBMITTED |
| 1 | HILLSBOROUGH COUNTY REGISTRY OF DEEDS | Recording Fee | | | | | 98.94 | 98.94 | | | 98.94 |
| 2 | NH DEPT OF ENVIRONMENTAL SERVICES | 199810022 8323 | | | | | 986.59 | 986.59 | | | 986.59 |
| 3 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11593 | | 4,754.40 | | | | 4,754.40 | | | 4,754.40 |
| 4 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11556 | | 3,379.20 | | | | 3,379.20 | | | 3,379.20 |
| 5 | ESMI OF NH | 1011601 | | | | | 2,480.00 | 2,480.00 | | | 2,480.00 |
| 6 | ESMI OF NH | 1011478 | | | | | 2,063.75 | 2,063.75 | | | 2,063.75 |
| 8 | ESMI OF NH | 1011674 | | | | | 4,368.88 | 4,368.88 | | | 4,368.88 |
| 9 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11616 | | 3,130.50 | | | | 3,130.50 | | | 3,130.50 |
| 10 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11640 | | 3,287.04 | | | | 3,287.04 | | | 3,287.04 |
| 11 | NH DEPT OF ENVIRONMENTAL SERVICES | 199810022A | | | | | 276.92 | 276.92 | | | 276.92 |
| 13 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11672 | | 15,066.39 | | | | 15,066.39 | | | 15,066.39 |
| 14 | O'HARA INDUSTRIAL SERVICES LLC | 31321 | | | | | 2,074.00 | 2,074.00 | | | 2,074.00 |
| 15 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11712 | | 16,074.37 | | | | 16,074.37 | | | 16,074.37 |
| 16 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11786 | | 14,394.17 | | | | 14,394.17 | | | 14,394.17 |
| 17 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11758 | | 5,272.12 | | | | 5,272.12 | | | 5,272.12 |
| 18 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11797 | | 2,949.35 | | | | 2,949.35 | | | 2,949.35 |
| 20 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11831 | | 4,572.57 | | | | 4,572.57 | | | 4,572.57 |
| 21 | NH DEPT OF ENVIRONMENTAL SERVICES | 1998810022 8323 | | | | | 388.19 | 388.19 | | | 388.19 |
| 22 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11856 | | 11,785.46 | | | | 11,785.46 | | | 11,785.46 |
| 24 | INNOVATIVE ENGINEERING SOLUTIONS, INC. | 11886 | | 8,338.80 | | | | 8,338.80 | | | 8,338.80 |
| 25 | | | | | | | | 0.00 | | | 0.00 |
| 26 | Environmental Staff Time | | | | | | 175.18 | 175.18 | | | 175.18 |
| Total Pool Activity | | | - | 93,004.37 | - | - | 12,912.45 | 105,916.82 | - | (40,699.36) | 65,217.46 |

REDACTED

REDACTED

REDACTED

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
MANUFACTURED GAS PLANT ENVIRONMENTAL COSTS
CONCORD POND - REMEDIATION
PROJECT DEF056

REDACTED

| | | | 1101 | 1102 | 1105 | 1106 | 1107 | | 1108 | 1109 | |
|----------------------------|-----------------------------------|---------------------|----------------|---------------------|---------------------|---------------------|-----------------|-------------------|----------------------------------|------------------------------------|------------------|
| LINE NO. | VENDOR | REF NO. | LEGAL EXPENSES | CONSULTING EXPENSES | REMEDATION EXPENSES | SETTLEMENT EXPENSES | OTHER EXPENSES | SUBTOTAL EXPENSES | INSURANCE & THIRD PARTY EXPENSES | INSURANCE & THIRD PARTY RECOVERIES | TOTAL SUBMITTED |
| 1 | CITY OF CONCORD | 2014-50460156 | | | | | 1,020.00 | 1,020.00 | | | 1,020.00 |
| 2 | CLEAN HARBORS | 1000527632 | | | | | 1,782.66 | 1,782.66 | | | 1,782.66 |
| 3 | GEI CONSULTANTS, INC. | 59795 | | 4,224.69 | | | | 4,224.69 | | | 4,224.69 |
| 4 | CASEY MARY | 07/01 THRU 07/31/14 | | | | | 55.60 | 55.60 | | | 55.60 |
| 5 | GEI CONSULTANTS, INC. | 59886 | | 2,587.36 | | | | 2,587.36 | | | 2,587.36 |
| 7 | GEI CONSULTANTS, INC. | 60174 | | 2,156.64 | | | | 2,156.64 | | | 2,156.64 |
| 8 | GEI CONSULTANTS, INC. | 60305 | | 4,652.42 | | | | 4,652.42 | | | 4,652.42 |
| 9 | CASEY MARY | 09/01 THRU 09/30/14 | | | | | 55.10 | 55.10 | | | 55.10 |
| 10 | CLEAN HARBORS | 1000685958 | | | | | 814.00 | 814.00 | | | 814.00 |
| 11 | NH DEPT OF ENVIRONMENTAL SERVICES | 199212014A | | | | | 54.65 | 54.65 | | | 54.65 |
| 13 | ANCHOR QEA LLC | 40034 | | 5,341.80 | | | | 5,341.80 | | | 5,341.80 |
| 14 | GEI CONSULTANTS, INC. | 60508 | | 2,942.42 | | | | 2,942.42 | | | 2,942.42 |
| 15 | ANCHOR QEA LLC | 40427 | | 10,011.34 | | | | 10,011.34 | | | 10,011.34 |
| 16 | GEI CONSULTANTS, INC. | 60761 | | 4,239.85 | | | | 4,239.85 | | | 4,239.85 |
| 17 | CASEY MARY | 10/01 THRU 10/31/14 | | | | | 31.13 | 31.13 | | | 31.13 |
| 18 | GEI CONSULTANTS, INC. | 60897 | | 3,998.75 | | | | 3,998.75 | | | 3,998.75 |
| 19 | ANCHOR QEA LLC | 40758 | | 10,988.75 | | | | 10,988.75 | | | 10,988.75 |
| 20 | GEI CONSULTANTS, INC. | 61088 | | 2,576.86 | | | | 2,576.86 | | | 2,576.86 |
| 21 | ANCHOR QEA LLC | 41163 | | 9,436.00 | | | | 9,436.00 | | | 9,436.00 |
| 22 | GEI CONSULTANTS, INC. | 61321 | | 922.54 | | | | 922.54 | | | 922.54 |
| 23 | ANCHOR QEA LLC | 41579 | | 5,145.25 | | | | 5,145.25 | | | 5,145.25 |
| 25 | GEI CONSULTANTS, INC. | 61505 | | 768.99 | | | | 768.99 | | | 768.99 |
| 26 | NH DEPT OF ENVIRONMENTAL SERVICES | 199212014 4042 | | | | | 2,419.15 | 2,419.15 | | | 2,419.15 |
| 27 | CITY OF CONCORD | 2015-50460152 | | | | | 1,440.00 | 1,440.00 | | | 1,440.00 |
| 28 | GEI CONSULTANTS, INC. | 61669 | | 1,751.33 | | | | 1,751.33 | | | 1,751.33 |
| 30 | CLEAN HARBORS | 1000941568 | | | | | 1,516.26 | 1,516.26 | | | 1,516.26 |
| 31 | ANCHOR QEA LLC | 42177 | | 3,151.90 | | | | 3,151.90 | | | 3,151.90 |
| 32 | ANCHOR QEA LLC | 42581 | | 264.00 | | | | 264.00 | | | 264.00 |
| 33 | GEI CONSULTANTS, INC. | 61946 | | 4,558.68 | | | | 4,558.68 | | | 4,558.68 |
| 34 | | | | | | | | 0.00 | | | 0.00 |
| 35 | Environmental Staff Time | | | | | | 718.00 | 718.00 | | | 718.00 |
| Total Pool Activity | | | 0.00 | 79,719.57 | 0.00 | 0.00 | 9,906.55 | 89,626.12 | 0.00 | (11,391.56) | 78,234.56 |

REDACTED

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
MANUFACTURED GAS PLANT ENVIRONMENTAL COSTS
MANCHESTER - REMEDIATION
PROJECT DEF057

REDACTED

| LINE NO. | VENDOR | REF NO. | 1101 | 1102 | 1105 | 1106 | 1107 | SUBTOTAL EXPENSES | 1108 | 1109 | TOTAL SUBMITTED |
|---------------------|-----------------------------------|---------------------|----------------|---------------------|----------------------|---------------------|----------------|-------------------|---------------------------------|------------------------------------|-----------------|
| | | | LEGAL EXPENSES | CONSULTING EXPENSES | REMEDIATION EXPENSES | SETTLEMENT EXPENSES | OTHER EXPENSES | | INSURANCE & THIRD PARTY EXPENSE | INSURANCE & THIRD PARTY RECOVERIES | |
| 1 | CLEAN HARBORS | 1000527599 | | | | | 837.10 | 837.10 | | | 837.10 |
| 2 | GZA GEOENVIRONMENTAL INC | 690121 | | 9,707.03 | | | | 9,707.03 | | | 9,707.03 |
| 3 | NH DEPT OF ENVIRONMENTAL SERVICES | 200003011-9890 | | | | | 45.59 | 45.59 | | | 45.59 |
| 5 | CASEY MARY | 08/01 THRU 08/31/14 | | | | | 138.97 | 138.97 | | | 138.97 |
| 7 | CASEY MARY | 09/01 THRU 09/30/14 | | | | | 35.22 | 35.22 | | | 35.22 |
| 8 | ESMI OF NH | 1011877 | | | | | 6,863.13 | 6,863.13 | | | 6,863.13 |
| 9 | ESMI OF NH | 1011876 | | | | | 2,173.98 | 2,173.98 | | | 2,173.98 |
| 11 | NORTHPOINT CONSTRUCTION MGMT, LLC | 1554 | | | | | 3,644.49 | 3,644.49 | | | 3,644.49 |
| 12 | NORTHPOINT CONSTRUCTION MGMT, LLC | 1550 | | | | | 28,034.30 | 28,034.30 | | | 28,034.30 |
| 13 | GZA GEOENVIRONMENTAL INC | 695410 | | 22,485.37 | | | | 22,485.37 | | | 22,485.37 |
| 14 | NH DEPT OF ENVIRONMENTAL SERVICES | 200003011 9890A | | | | | 382.18 | 382.18 | | | 382.18 |
| 15 | ESMI OF NH | 1012023 | | | | | 1,601.40 | 1,601.40 | | | 1,601.40 |
| 19 | NH DEPT OF ENVIRONMENTAL SERVICES | 2000030110 9890 | | | | | 46.60 | 46.60 | | | 46.60 |
| 20 | GZA GEOENVIRONMENTAL INC | 702511 | | 30,074.62 | | | | 30,074.62 | | | 30,074.62 |
| 22 | GZA GEOENVIRONMENTAL INC | 703054 | | 9,019.10 | | | | 9,019.10 | | | 9,019.10 |
| 24 | | | | | | | | 0.00 | | | 0.00 |
| 25 | | | | | | | | 0.00 | | | 0.00 |
| 26 | | | | | | | | 0.00 | | | 0.00 |
| 27 | | | | | | | | 0.00 | | | 0.00 |
| 28 | | | | | | | | 0.00 | | | 0.00 |
| 29 | | | | | | | | 0.00 | | | 0.00 |
| 30 | | | | | | | | 0.00 | | | 0.00 |
| 31 | | | | | | | | 0.00 | | | 0.00 |
| 32 | Environmental Staff Time | | | | | | 1,407.28 | 1,407.28 | | | 1,407.28 |
| Total Pool Activity | | | 0.00 | 71,286.12 | 0.00 | 0.00 | 45,210.24 | 116,496.36 | 0.00 | (41,056.77) | 75,439.59 |

REDACTED

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
MANUFACTURED GAS PLANT ENVIRONMENTAL COSTS
GENERAL EXPENSES
PROJECT DEF064

| | | | 1101 | 1102 | 1105 | 1106 | 1107 | | | 1108 | 1109 | | |
|---------------------|--|----------------------|----------------|---------------------|-----------------------|---------------------|----------------|-------------------|---------------------------------|------------------------------------|-----------------|--|--|
| LINE NO. | VENDOR | REF NO. | LEGAL EXPENSES | CONSULTING EXPENSES | REMEDIAATION EXPENSES | SETTLEMENT EXPENSES | OTHER EXPENSES | SUBTOTAL EXPENSES | INSURANCE & THIRD PARTY EXPENSE | INSURANCE & THIRD PARTY RECOVERIES | TOTAL SUBMITTED | | |
| 1 | E&A Insurance Proceeds | Insurance check | | | | | | - | | (20,185.83) | (20,185.83) | | |
| 2 | World Marine & Gen'l Insurance payment | Check No. 0000950364 | | | | | | - | | (2,902.97) | (2,902.97) | | |
| 3 | Allegra Marketing Print Mail | 27582 | | | | | \$122.00 | 122.00 | | | 122.00 | | |
| 4 | CASEY MARY | 8/1 THRU 8/31/2014 | | | | | \$53.60 | 53.60 | | | 53.60 | | |
| 5 | World Marine & Gen'l Insurance payment | Check No. 0000850304 | | | | | | - | | (1,161.19) | (1,161.19) | | |
| 6 | CASEY MARY | 10/1 THRU 10/31/2014 | | | | | 89.38 | 89.38 | | | 89.38 | | |
| 7 | MCLANE, GRAF, RAULERSON & MIDDLETON PA | 2015051290 | \$ 1,184.50 | | | | | 1,184.50 | | | 1,184.50 | | |
| 8 | Removal of Winter 2014/2015 MGP Consortium related costs | | | | | | (3,431.24) | (3,431.24) | | | (3,431.24) | | |
| 9 | | | | | | | | - | | | 0.00 | | |
| 10 | | | | | | | | - | | | 0.00 | | |
| 11 | | | | | | | | - | | | 0.00 | | |
| 12 | | | | | | | | - | | | 0.00 | | |
| 13 | | | | | | | | - | | | 0.00 | | |
| 14 | | | | | | | | - | | | 0.00 | | |
| 15 | | | | | | | | - | | | 0.00 | | |
| 16 | Environmental Staff Time | | | | | | 18,594.03 | 18,594.03 | | | 18,594.03 | | |
| Total Pool Activity | | | 1,184.50 | - | - | - | 15,427.77 | 16,612.27 | - | (24,249.99) | (7,637.72) | | |

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
MANUFACTURED GAS PLANT ENVIRONMENTAL COSTS
CONCORD MGP - REMEDIATION
PROJECT DEF077

REDACTED

| | | | 1101 | 1102 | 1105 | 1106 | 1107 | | | 1108 | 1109 | |
|---------------------|------------------------------------|------------------|----------------|---------------------|---------------------|---------------------|----------------|-------------------|---------------------------------|------------------------------------|-----------------|--|
| LINE NO. | VENDOR | REF NO. | LEGAL EXPENSES | CONSULTING EXPENSES | REMEDATION EXPENSES | SETTLEMENT EXPENSES | OTHER EXPENSES | SUBTOTAL EXPENSES | INSURANCE & THIRD PARTY EXPENSE | INSURANCE & THIRD PARTY RECOVERIES | TOTAL SUBMITTED | |
| 1 | CITY OF CONCORD | 2014-50460156 | | | | | 1,020.00 | 1,020.00 | | | 1,020.00 | |
| 3 | CLEAN HARBORS | 1000527626 | | | | | 1,246.74 | 1,246.74 | | | 1,246.74 | |
| 4 | NH DEPT OF ENVIRONMENTAL SERVICES | 198904063 1479 | | | | | 735.26 | 735.26 | | | 735.26 | |
| | | | | | | | | | | | | |
| 6 | GZA GEOENVIRONMENTAL INC | 690126 | | 28,696.49 | | | | 28,696.49 | | | 28,696.49 | |
| 7 | GZA GEOENVIRONMENTAL INC | 690122 | | 18,812.52 | | | | 18,812.52 | | | 18,812.52 | |
| 8 | GZA GEOENVIRONMENTAL INC | 684968 | | 2,660.92 | | | | 2,660.92 | | | 2,660.92 | |
| 9 | GZA GEOENVIRONMENTAL INC | 694181 | | 72,684.79 | | | | 72,684.79 | | | 72,684.79 | |
| | | | | | | | | | | | | |
| 11 | GZA GEOENVIRONMENTAL INC | 694846 | | 7,700.48 | | | | 7,700.48 | | | 7,700.48 | |
| 12 | MERRIMACK COUNTY REGISTRY OF DEEDS | Document Fee-GMP | | | | | 144.90 | 144.90 | | | 144.90 | |
| 13 | COULOMBE JUDITH A | 2/1 THRU 2/28/15 | | | | | 52.88 | 52.88 | | | 52.88 | |
| | | | | | | | | | | | | |
| 15 | CITY OF CONCORD | 2015-50460152 | | | | | 600.00 | 600.00 | | | 600.00 | |
| 16 | GZA GEOENVIRONMENTAL INC | 702508 | | 35,768.85 | | | | 35,768.85 | | | 35,768.85 | |
| | | | | | | | | | | | | |
| 18 | GZA GEOENVIRONMENTAL INC | 703050 | | 10,425.54 | | | | 10,425.54 | | | 10,425.54 | |
| 19 | GZA GEOENVIRONMENTAL INC | 703097 | | 10,555.45 | | | | 10,555.45 | | | 10,555.45 | |
| 20 | | | | | | | | 0.00 | | | 0.00 | |
| 21 | Environmental Staff Time | | | | | | 1,420.18 | 1,420.18 | | | 1,420.18 | |
| Total Pool Activity | | | 0.00 | 187,305.04 | 0.00 | 0.00 | 5,219.96 | 192,525.00 | 0.00 | (28,741.72) | 163,783.28 | |

REDACTED

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
MANUFACTURED GAS PLANT ENVIRONMENTAL COSTS
LIBERTY HILL - REMEDIATION
PROJECT DEF086

| | | | 1101 | 1102 | 1105 | 1106 | 1107 | | 1108 | 1109 | |
|----------|-----------------------------------|---------------------|----------------|---------------------|---------------------|---------------------|----------------|--------------------|----------------------------------|------------------------------------|-----------------|
| LINE NO. | VENDOR | REF NO. | LEGAL EXPENSES | CONSULTING EXPENSES | REMEDATION EXPENSES | SETTLEMENT EXPENSES | OTHER EXPENSES | SUB-TOTAL EXPENSES | INSURANCE & THIRD PARTY EXPENSES | INSURANCE & THIRD PARTY RECOVERIES | TOTAL SUBMITTED |
| 1 | ESMI OF NH | 1011348 | | | 114,871.68 | | | 114,871.68 | | | 114,871.68 |
| 2 | BLUE CHIP FILMS LLC | 1194 | | | | | 725.00 | 725.00 | | | 725.00 |
| 3 | CASEY MARY | 06/01 THRU 06/30/14 | | | | | 166.40 | 166.40 | | | 166.40 |
| 4 | CASEY MARY | 07/01 THRU 07/01/14 | | | | | 70.85 | 70.85 | | | 70.85 |
| 5 | ESMI OF NH | 1011411 | | | 59,778.04 | | | 59,778.04 | | | 59,778.04 |
| 6 | GEI CONSULTANTS, INC. | 59627 | | 66,395.07 | | | | 66,395.07 | | | 66,395.07 |
| 7 | OSTROW & PARTNERS INC | 07 14 01 | | | | | 1,027.25 | 1,027.25 | | | 1,027.25 |
| 8 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56272196049 07 14 | | | | | 50.41 | 50.41 | | | 50.41 |
| 9 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56549986081 07 14 | | | | | 285.92 | 285.92 | | | 285.92 |
| 10 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56382976025 07 14 | | | | | 105.36 | 105.36 | | | 105.36 |
| 11 | CHARTER ENVIRONMENTAL INC | APP3 2-1055 | | | 742,430.38 | | | 742,430.38 | | | 742,430.38 |
| 12 | ESMI OF NH | 1011446 | | | 104,229.86 | | | 104,229.86 | | | 104,229.86 |
| 13 | ESMI OF NH | 1011406 | | | 132,760.11 | | | 132,760.11 | | | 132,760.11 |
| 14 | DRAGONFLY AERIALS LLC | 71 | | | | | 460.00 | 460.00 | | | 460.00 |
| 15 | DE MAXIMIS, INC. | 141654 | | | | | 34,850.70 | 34,850.70 | | | 34,850.70 |
| 16 | ESMI OF NH | 1011473 | | | 111,132.00 | | | 111,132.00 | | | 111,132.00 |
| 17 | GEI CONSULTANTS, INC. | 59793 | | 52,751.61 | | | | 52,751.61 | | | 52,751.61 |
| 18 | ESMI OF NH | 1011480 | | | 114,285.64 | | | 114,285.64 | | | 114,285.64 |
| 19 | NH DEPT OF ENVIRONMENTAL SERVICES | 200411113 14262 | | | | | 3,091.93 | 3,091.93 | | | 3,091.93 |
| 20 | ESMI OF NH | 1011505 | | | 88,205.88 | | | 88,205.88 | | | 88,205.88 |
| 21 | CHARTER ENVIRONMENTAL INC | APP 4 2-1055 | | | 528,547.10 | | | 528,547.10 | | | 528,547.10 |
| 22 | ESMI OF NH | 1011530 | | | 19,681.83 | | | 19,681.83 | | | 19,681.83 |
| 23 | ESMI OF NH | 1011537 | | | 104,035.33 | | | 104,035.33 | | | 104,035.33 |
| 24 | CASEY MARY | 07/01 THRU 07/31/14 | | | | | 771.28 | 771.28 | | | 771.28 |
| 25 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56549986081 0814 | | | | | 266.87 | 266.87 | | | 266.87 |
| 26 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56272196049 0814 | | | | | 72.51 | 72.51 | | | 72.51 |
| 27 | OSTROW & PARTNERS INC | 08 14 01 | | | | | 1,496.75 | 1,496.75 | | | 1,496.75 |
| 28 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56382976025 0814 | | | | | 195.12 | 195.12 | | | 195.12 |
| 29 | ESMI OF NH | 1011556 | | | 108,299.80 | | | 108,299.80 | | | 108,299.80 |
| 30 | GEI CONSULTANTS, INC. | 59884 | | 50,938.33 | | | | 50,938.33 | | | 50,938.33 |
| 31 | ESMI OF NH | 1011577 | | | 129,678.50 | | | 129,678.50 | | | 129,678.50 |
| 32 | DE MAXIMIS, INC. | 141918 | | 37,916.50 | | | | 37,916.50 | | | 37,916.50 |
| 33 | AIRLOGICS LLC | 691464 | | | 8,100.00 | | | 8,100.00 | | | 8,100.00 |
| 34 | BLUE CHIP FILMS LLC | 1204 | | | | | 1,937.50 | 1,937.50 | | | 1,937.50 |
| 35 | ESMI OF NH | 1011596 | | | 108,326.26 | | | 108,326.26 | | | 108,326.26 |
| 36 | CASEY MARY | 08/01 THRU 08/31/14 | | | | | 213.92 | 213.92 | | | 213.92 |
| 37 | ESMI OF NH | 1011621 | | | 97,708.94 | | | 97,708.94 | | | 97,708.94 |
| 38 | OSTROW & PARTNERS INC | 09 14 01 | | | | | 1,183.75 | 1,183.75 | | | 1,183.75 |
| 39 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56382976025 0914 | | | | | 171.85 | 171.85 | | | 171.85 |
| 40 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56272196049 0914 | | | | | 56.96 | 56.96 | | | 56.96 |
| 41 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56549986081 0914 | | | | | 266.41 | 266.41 | | | 266.41 |
| 42 | CHARTER ENVIRONMENTAL INC | APP 5 2-1055 | | | 251,983.94 | | | 251,983.94 | | | 251,983.94 |
| 43 | ESMI OF NH | 1011651 | | | 139,481.93 | | | 139,481.93 | | | 139,481.93 |
| 44 | DE MAXIMIS, INC. | 142166 | | 31,471.13 | | | | 31,471.13 | | | 31,471.13 |
| 45 | AIRLOGICS LLC | 692789 | | | 8,100.00 | | | 8,100.00 | | | 8,100.00 |
| 46 | ESMI OF NH | 1011692 | | | 160,429.43 | | | 160,429.43 | | | 160,429.43 |
| 47 | ESMI OF NH | 1011700 | | | 34,599.41 | | | 34,599.41 | | | 34,599.41 |
| 48 | GEI CONSULTANTS, INC. | 60172 | | 76,234.44 | | | | 76,234.44 | | | 76,234.44 |
| 49 | BLUE CHIP FILMS LLC | 1208 | | | | | 1,050.00 | 1,050.00 | | | 1,050.00 |
| 50 | DRAGONFLY AERIALS LLC | 83 | | | | | 460.00 | 460.00 | | | 460.00 |
| 51 | CASEY MARY | 09/16 THRU 09/16/14 | | | | | 22.05 | 22.05 | | | 22.05 |
| 52 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56549986081 1014 | | | | | 299.14 | 299.14 | | | 299.14 |
| 53 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56382976025 1014 | | | | | 104.99 | 104.99 | | | 104.99 |
| 54 | ESMI OF NH | 1011724 | | | 207,321.64 | | | 207,321.64 | | | 207,321.64 |
| 55 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56272196049 1014 | | | | | 38.24 | 38.24 | | | 38.24 |
| 56 | CHARTER ENVIRONMENTAL INC | APP 6 2-1055 | | | 312,593.57 | | | 312,593.57 | | | 312,593.57 |

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
MANUFACTURED GAS PLANT ENVIRONMENTAL COSTS
LIBERTY HILL - REMEDIATION
PROJECT DEF086

| | | | 1101 | 1102 | 1105 | 1106 | 1107 | | 1108 | 1109 | |
|----------|-----------------------------------|---------------------|----------------|---------------------|---------------------|---------------------|----------------|--------------------|----------------------------------|------------------------------------|-----------------|
| LINE NO. | VENDOR | REF NO. | LEGAL EXPENSES | CONSULTING EXPENSES | REMEDATION EXPENSES | SETTLEMENT EXPENSES | OTHER EXPENSES | SUB-TOTAL EXPENSES | INSURANCE & THIRD PARTY EXPENSES | INSURANCE & THIRD PARTY RECOVERIES | TOTAL SUBMITTED |
| 57 | ESMI OF NH | 1011749 | | | 258,972.08 | | | 258,972.08 | | | 258,972.08 |
| 58 | OSTROW & PARTNERS INC | 10 14 01 | | | | | 1,262.00 | 1,262.00 | | | 1,262.00 |
| 59 | CASEY MARY | 09/01 THRU 09/30/14 | | | | | 741.60 | 741.60 | | | 741.60 |
| 60 | GEI CONSULTANTS, INC. | 60303 | | 61,593.39 | | | | 61,593.39 | | | 61,593.39 |
| 61 | ESMI OF NH | 1011787 | | | 137,054.97 | | | 137,054.97 | | | 137,054.97 |
| 62 | DE MAXIMIS, INC. | 142409 | | 30,054.65 | | | | 30,054.65 | | | 30,054.65 |
| 63 | AIRLOGICS LLC | 694072 | | | | | 8,100.00 | 8,100.00 | | | 8,100.00 |
| 64 | Laconia Daily Sun | Public Notice | | | | | 151.75 | 151.75 | | | 151.75 |
| 65 | ESMI OF NH | 1011809 | | | 95,325.09 | | | 95,325.09 | | | 95,325.09 |
| 66 | ESMI OF NH | 1011813 | | | 118,826.96 | | | 118,826.96 | | | 118,826.96 |
| 67 | BLUE CHIP FILMS LLC | 1218 | | | | | 800.00 | 800.00 | | | 800.00 |
| 68 | OSTROW & PARTNERS INC | 11 14 01 | | | | | 1,340.25 | 1,340.25 | | | 1,340.25 |
| 69 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56549986081 1114 | | | | | 515.92 | 515.92 | | | 515.92 |
| 70 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56272196049 1114 | | | | | 88.26 | 88.26 | | | 88.26 |
| 71 | CHARTER ENVIRONMENTAL INC | APP 7 2-1055 | | | 258,314.38 | | | 258,314.38 | | | 258,314.38 |
| 72 | NH DEPT OF ENVIRONMENTAL SERVICES | 200411113 103114 | | | | | 24,473.88 | 24,473.88 | | | 24,473.88 |
| 73 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56382976025 1114 | | | | | 441.67 | 441.67 | | | 441.67 |
| 74 | ESMI OF NH | 1011870 | | | 143,072.07 | | | 143,072.07 | | | 143,072.07 |
| 75 | ESMI OF NH | 1011847 | | | 83,881.63 | | | 83,881.63 | | | 83,881.63 |
| 76 | DE MAXIMIS, INC. | 142670 | | 40,225.91 | | | | 40,225.91 | | | 40,225.91 |
| 77 | AIRLOGICS LLC | 695111 | | | | | 8,100.00 | 8,100.00 | | | 8,100.00 |
| 78 | ESMI OF NH | 1011885 | | | 145,328.90 | | | 145,328.90 | | | 145,328.90 |
| 79 | BLUE CHIP FILMS LLC | 1220 | | | | | 887.50 | 887.50 | | | 887.50 |
| 80 | ESMI OF NH | 1011899 | | | 80,514.32 | | | 80,514.32 | | | 80,514.32 |
| 81 | CASEY MARY | 10/01 THRU 10/31/14 | | | | | (70.85) | (70.85) | | | (70.85) |
| 82 | CASEY MARY | 10/01 THRU 10/31/14 | | | | | 447.13 | 447.13 | | | 447.13 |
| 83 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56272196049 1214 | | | | | 205.91 | 205.91 | | | 205.91 |
| 84 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56549986081 1214 | | | | | 941.72 | 941.72 | | | 941.72 |
| 85 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56382976025 1214 | | | | | 1,182.95 | 1,182.95 | | | 1,182.95 |
| 86 | ESMI OF NH | 1011921 | | | 10,366.96 | | | 10,366.96 | | | 10,366.96 |
| 87 | OSTROW & PARTNERS INC | 12 14 01 | | | | | 1,262.00 | 1,262.00 | | | 1,262.00 |
| 88 | TOWN OF GILFORD NH | 637 | | | | | 44,017.00 | 44,017.00 | | | 44,017.00 |
| 89 | GEI CONSULTANTS, INC. | 60506 | | 65,810.37 | | | | 65,810.37 | | | 65,810.37 |
| 90 | DRAGONFLY AERIALS LLC | 88 | | | | | 460.00 | 460.00 | | | 460.00 |
| 91 | ESMI OF NH | 1011928 | | | 11,095.80 | | | 11,095.80 | | | 11,095.80 |
| 92 | CHARTER ENVIRONMENTAL INC | APP 8 2-1055 | | | 314,574.48 | | | 314,574.48 | | | 314,574.48 |
| 93 | ESMI OF NH | 1011952 | | | 10,996.12 | | | 10,996.12 | | | 10,996.12 |
| 94 | DE MAXIMIS, INC. | 142921 | | 26,159.99 | | | | 26,159.99 | | | 26,159.99 |
| 95 | AIRLOGICS LLC | 696606 | | | 4,617.00 | | | 4,617.00 | | | 4,617.00 |
| 96 | BLUE CHIP FILMS LLC | 1225 | | | | | 1,050.00 | 1,050.00 | | | 1,050.00 |
| 97 | CASEY MARY | 12/01 THRU 12/22/14 | | | | | 177.18 | 177.18 | | | 177.18 |
| 98 | CASEY MARY | 11/01 THRU 11/30/14 | | | | | 265.24 | 265.24 | | | 265.24 |
| 99 | CHARTER ENVIRONMENTAL INC | APP 9 2-1055 | | | 169,287.90 | | | 169,287.90 | | | 169,287.90 |
| 100 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56382976025 0115 | | | | | 1,100.29 | 1,100.29 | | | 1,100.29 |
| 101 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56549986081 0115 | | | | | 609.73 | 609.73 | | | 609.73 |
| 102 | OSTROW & PARTNERS INC | 01 15 01 | | | | | 1,575.00 | 1,575.00 | | | 1,575.00 |
| 103 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56272196049 0115 | | | | | 623.62 | 623.62 | | | 623.62 |
| 104 | GEI CONSULTANTS, INC. | 60759 | | 39,260.75 | | | | 39,260.75 | | | 39,260.75 |
| 105 | AIRLOGICS LLC | 690293 | | | 8,100.00 | | | 8,100.00 | | | 8,100.00 |
| 106 | GEI CONSULTANTS, INC. | 60896 | | 39,417.64 | | | | 39,417.64 | | | 39,417.64 |
| 107 | DE MAXIMIS, INC. | 150192 | | 24,166.23 | | | | 24,166.23 | | | 24,166.23 |
| 108 | NH DEPT OF ENVIRONMENTAL SERVICES | 200411113 012315 | | | | | 27,594.58 | 27,594.58 | | | 27,594.58 |
| 109 | BLUE CHIP FILMS LLC | 1231 | | | | | 237.50 | 237.50 | | | 237.50 |
| 110 | OSTROW & PARTNERS INC | 02 15 01 | | | | | 323.00 | 323.00 | | | 323.00 |
| 111 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56549986081 0215 | | | | | 561.36 | 561.36 | | | 561.36 |
| 112 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56272196049 0215 | | | | | 574.03 | 574.03 | | | 574.03 |
| 113 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56382976025 0215 | | | | | 1,033.86 | 1,033.86 | | | 1,033.86 |
| 114 | GEI CONSULTANTS, INC. | 61086 | | 6,705.44 | | | | 6,705.44 | | | 6,705.44 |

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP.
MANUFACTURED GAS PLANT ENVIRONMENTAL COSTS
LIBERTY HILL - REMEDIATION
PROJECT DEF086

| | | | 1101 | 1102 | 1105 | 1106 | 1107 | | 1108 | 1109 | |
|--------------------------|--|----------------------|----------------|---------------------|---------------------|---------------------|----------------|--------------------|----------------------------------|------------------------------------|-----------------|
| LINE NO. | VENDOR | REF NO. | LEGAL EXPENSES | CONSULTING EXPENSES | REMEDATION EXPENSES | SETTLEMENT EXPENSES | OTHER EXPENSES | SUB-TOTAL EXPENSES | INSURANCE & THIRD PARTY EXPENSES | INSURANCE & THIRD PARTY RECOVERIES | TOTAL SUBMITTED |
| 115 | DE MAXIMIS, INC. | 150478 | | 919.98 | | | | 919.98 | | | 919.98 |
| 116 | OSTROW & PARTNERS INC | 03 15 01 | | | | | 626.00 | 626.00 | | | 626.00 |
| 117 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56549986081 0315 | | | | | 544.25 | 544.25 | | | 544.25 |
| 118 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56382976025 0315 | | | | | 1,008.75 | 1,008.75 | | | 1,008.75 |
| 119 | PUBLIC SERVICE OF NEW HAMPSHIRE | 56272196049 0315 | | | | | 1,169.50 | 1,169.50 | | | 1,169.50 |
| 120 | MCLANE, GRAF, RAULERSON & MIDDLETON PA | 2015031003 | 135.00 | | | | | 135.00 | | | 135.00 |
| 121 | DE MAXIMIS, INC. | 150731 | | 465.06 | | | | 465.06 | | | 465.06 |
| 122 | GEI CONSULTANTS, INC. | 61320 | | 9,293.93 | | | | 9,293.93 | | | 9,293.93 |
| 123 | BLUE CHIP FILMS LLC | 1240 | | | | | 150.00 | 150.00 | | | 150.00 |
| 124 | CASEY MARY | 03/01 THRU 03/31/15 | | | | | 37.08 | 37.08 | | | 37.08 |
| 125 | EVERSOURCE | 56382976025 0415 | | | | | 701.38 | 701.38 | | | 701.38 |
| 126 | EVERSOURCE | 56272196049 0415 | | | | | 905.63 | 905.63 | | | 905.63 |
| 127 | DE MAXIMIS, INC. | 150974 | | 476.68 | | | | 476.68 | | | 476.68 |
| 128 | AIRLOGICS LLC | 701650 | | | 4,779.00 | | | 4,779.00 | | | 4,779.00 |
| 129 | BLUE CHIP FILMS LLC | 1247 | | | | | 1,000.00 | 1,000.00 | | | 1,000.00 |
| 130 | CHARTER ENVIRONMENTAL INC | 2-1055 APP 10 | | | 97,691.90 | | | 97,691.90 | | | 97,691.90 |
| 131 | ESMI OF NH | 1012290 | | | 115,090.22 | | | 115,090.22 | | | 115,090.22 |
| 132 | CASEY MARY | 04/01 THRU 04/30/15 | | | | | 353.71 | 353.71 | | | 353.71 |
| 133 | CASEY MARY | 04/28 THRU 04/29/15 | | | | | 70.85 | 70.85 | | | 70.85 |
| 134 | OSTROW & PARTNERS INC | 04 15 01 | | | | | 244.75 | 244.75 | | | 244.75 |
| 135 | OSTROW & PARTNERS INC | 05 15 01 | | | | | 1,418.50 | 1,418.50 | | | 1,418.50 |
| 136 | EVERSOURCE | 56272196049 0515 | | | | | 490.90 | 490.90 | | | 490.90 |
| 137 | EVERSOURCE | 56382976025 0515 | | | | | 424.46 | 424.46 | | | 424.46 |
| 138 | GEI CONSULTANTS, INC. | 61503 | | 26,053.33 | | | | 26,053.33 | | | 26,053.33 |
| 139 | DRAGONFLY AERIALS LLC | 96 | | | | | 460.00 | 460.00 | | | 460.00 |
| 140 | DE MAXIMIS, INC. | 151240 | | 22,040.57 | | | | 22,040.57 | | | 22,040.57 |
| 141 | ESMI OF NH | 1012327 | | | 124,677.56 | | | 124,677.56 | | | 124,677.56 |
| 142 | GEI CONSULTANTS, INC. | 61668 | | 27,236.10 | | | | 27,236.10 | | | 27,236.10 |
| 143 | NH DEPT OF ENVIRONMENTAL SERVICES | 200411113 14262 0415 | | | | | 22,511.12 | 22,511.12 | | | 22,511.12 |
| 144 | ESMI OF NH | 1012342 | | | 128,873.92 | | | 128,873.92 | | | 128,873.92 |
| 145 | AIRLOGICS LLC | 703053 | | | 8,100.00 | | | 8,100.00 | | | 8,100.00 |
| 146 | ESMI OF NH | 1012369 | | | 77,108.85 | | | 77,108.85 | | | 77,108.85 |
| 147 | BLUE CHIP FILMS LLC | 1254 | | | | | 725.00 | 725.00 | | | 725.00 |
| 148 | CASEY MARY | 05/01 THRU 05/31/15 | | | | | 369.64 | 369.64 | | | 369.64 |
| 149 | EVERSOURCE | 56382976025 0615 | | | | | 260.56 | 260.56 | | | 260.56 |
| 150 | ESMI OF NH | 1012394 | | | 161,943.44 | | | 161,943.44 | | | 161,943.44 |
| 151 | OSTROW & PARTNERS INC | 06 15 01 | | | | | 1,228.75 | 1,228.75 | | | 1,228.75 |
| 152 | EVERSOURCE | 56272196049 0615 | | | | | 96.84 | 96.84 | | | 96.84 |
| 153 | CHARTER ENVIRONMENTAL INC | APP 11 LIBERTY HILL | | | 287,456.95 | | | 287,456.95 | | | 287,456.95 |
| 154 | KNOTT MICHAEL G | 03/30 THRU 06/05/15 | | | | | 13.80 | 13.80 | | | 13.80 |
| 155 | CASEY MARY | 05/26 THRU 05/27/15 | | | | | 70.85 | 70.85 | | | 70.85 |
| 156 | ESMI OF NH | 1012415 | | | 138,819.30 | | | 138,819.30 | | | 138,819.30 |
| 157 | ESMI OF NH | 1012435 | | | 116,162.22 | | | 116,162.22 | | | 116,162.22 |
| 158 | CASEY MARY | 06/16 THRU 06/17/15 | | | | | 70.85 | 70.85 | | | 70.85 |
| 159 | | | | | | | | - | | | - |
| 160 | | | | | | | | - | | | - |
| Environmental Staff Time | | | | | | | 17,452.95 | 17,452.95 | | | 17,452.95 |
| Total Pool Activity | | | 135.00 | 735,587.10 | 6,797,613.29 | 0.00 | 232,921.36 | 7,766,256.75 | | | 7,766,256.75 |

Filed under the following protective orders:
Order No. 22,853 dated February 18, 1998 in Docket No. DR 97-130
Order No. 23,316 dated October 11, 1999 in Docket No. DG 99-132

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Environmental Remediation - MGPs
Tariff page 80

| Concord Pond | | | | | | | | | | | | | | | | | DEF056 |
|---|---------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|--------|
| internal order no. 500061 (formerly acc no. 1796) | | | | | | | | | | | | | | | | | |
| (thru 3/98) | (4/98 - 9/98) | 10/98 - 9/15/99 | (9/99 - 9/00) | (9/03 - 9/04) | (9/04 - 9/05) | (9/05 - 9/06) | (9/06 - 9/07) | (9/07 - 9/08) | (9/08 - 9/09) | (9/09 - 9/10) | (9/10 - 9/11) | (9/11 - 9/12) | (9/12 - 9/13) | (9/13 - 9/14) | (9/14 - 9/15) | subtotal | |
| pool #1 | pool #2 | pool #3 | pool #4 | pool #5 | pool #6 | pool #7 | pool #8 | pool #9 | pool #10 | pool #11 | pool #12 | pool #13 | pool #14 | pool #15 | pool #16 | | |
| 1,422,811 | 1,843,806 | 2,154,235 | 129,002 | 60,293 | 21,613 | 96,293 | 155,796 | 95,374 | 128,187 | 143,000 | 249,160 | 86,412 | 78,387 | 40,314 | 89,626 | 6,794,309 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1,422,811 | 1,843,806 | 2,154,235 | 129,002 | 60,293 | 21,613 | 96,293 | 155,796 | 95,374 | 128,187 | 143,000 | 249,160 | 86,412 | 78,387 | 40,314 | 89,626 | 6,794,309 | |
| (1,080,580) | (434,476) | (499,684) | (33,204) | - | - | (14,314) | (13,446) | - | (12,608) | (6,064) | (32,417) | (5,173) | (19,318) | (7,990) | (11,392) | (2,170,665) | |
| (445,985) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (445,985) | |
| 623,784 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 623,784 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| (902,781) | (434,476) | (499,684) | (33,204) | - | - | (14,314) | (13,446) | - | (12,608) | (6,064) | (32,417) | (5,173) | (19,318) | (7,990) | (11,392) | (1,992,866) | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 520,030 | 1,409,330 | 1,654,552 | 95,798 | 60,293 | 21,613 | 81,979 | 142,350 | 95,374 | 115,579 | 136,936 | 216,743 | 81,238 | 59,069 | 32,324 | 78,235 | 4,801,443 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| (54,889) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (54,889) | |
| (287,010) | (251,133) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (538,143) | |
| (178,131) | (266,400) | (316,340) | - | - | - | - | - | - | - | - | - | - | - | - | - | (760,871) | |
| - | (292,420) | (334,194) | (13,925) | - | - | - | - | - | - | - | - | - | - | - | - | (640,539) | |
| - | (281,914) | (318,686) | (24,514) | - | - | - | - | - | - | - | - | - | - | - | - | (625,114) | |
| - | (258,347) | (334,331) | (15,197) | - | - | - | - | - | - | - | - | - | - | - | - | (607,874) | |
| - | (14,567) | (276,773) | (14,567) | - | - | - | - | - | - | - | - | - | - | - | - | (305,907) | |
| - | - | (56,719) | (14,180) | (14,180) | (14,180) | - | - | - | - | - | - | - | - | - | - | (85,078) | |
| - | - | - | (6,875) | (6,875) | - | - | - | - | - | - | - | - | - | - | - | (13,750) | |
| - | - | - | - | - | - | (14,091) | - | - | - | - | - | - | - | - | - | (14,091) | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
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| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | | | | | | | | | | | | | | | | |

1. While the recoveries are displayed on the Summary, Cash Recoveries by site, are not exclusive to a particular

Filed under the following protective orders:
Order No. 22,853 dated February 18, 1998 in Docket No. DR 97-130
Order No. 23,316 dated October 11, 1999 in Docket No. DG 99-132

REDACTED

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Environmental Remediation - MGPs
Tariff page 80

| Laconia & Liberty Hill | | | | | | | | | | | | | DEF086 | | |
|--------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------|--|
| i.o. no. 500005 (through 9/15/99) | (9/99 - 9/00) | (9/00 - 9/01) | (9/04 - 9/05) | (9/05 - 9/06) | (9/06 - 9/07) | (9/07 - 9/08) | (9/08 - 9/09) | (9/09 - 9/10) | (9/10 - 9/11) | (9/11 - 9/12) | (9/12 - 9/13) | (9/13 - 9/14) | (9/14 - 9/15) | subtotal | |
| pool #1 | pool #2 | pool #3 | pool #4 | pool #5 | pool #6 | pool #7 | pool #8 | pool #9 | pool #10 | pool #11 | pool #12 | pool #13 | pool #14 | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 1,027,747 | 3,513,285 | 700,000 | 9,702 | 2,330,555 | 2,089,199 | 428,225 | 607,876 | 262,678 | 210,532 | 269,281 | 642,986 | | | | |
| 1,027,747 | 3,513,285 | 700,000 | 9,702 | 2,330,555 | 2,089,199 | 428,225 | 607,876 | 262,678 | 210,532 | 269,281 | 642,986 | | | | |
| - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| - | - | - | - | - | - | 11,643 | 21,729 | - | - | - | - | | | | |
| - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| - | - | - | - | - | 11,643 | 21,729 | - | - | - | - | - | | | | |
| 1,027,747 | 3,513,285 | 700,000 | 9,702 | 2,330,555 | 2,100,842 | 449,954 | 607,876 | 262,678 | 210,532 | 269,281 | 642,986 | | | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| (151,933) | - | - | - | - | - | - | - | - | - | - | - | - | - | (151,933) | |
| (153,172) | (543,065) | - | - | - | - | - | - | - | - | - | - | - | - | (696,237) | |
| (159,343) | (527,057) | (110,314) | - | - | - | - | - | - | - | - | - | - | - | (796,714) | |
| (151,969) | (547,087) | (106,378) | - | - | - | - | - | - | - | - | - | - | - | (805,434) | |
| (131,103) | (466,143) | (101,969) | - | - | - | - | - | - | - | - | - | - | - | (699,215) | |
| (127,617) | (439,570) | (85,078) | - | - | - | - | - | - | - | - | - | - | - | (652,264) | |
| (141,176) | (453,736) | (96,247) | - | - | - | - | - | - | - | - | - | - | - | (691,159) | |
| - | (549,539) | (98,635) | - | (309,996) | - | - | - | - | - | - | - | - | - | (958,171) | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
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| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
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| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

1. While the recoveries are displayed on the Summary, Cash Recoveries by site, are not exclusive to a particular

Filed under the following protective orders:
Order No. 22,853 dated February 18, 1998 in Docket No. DR 97-130
Order No. 23,316 dated October 11, 1999 in Docket No. DG 99-132

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Environmental Remediation - MGPs
Tariff page 80

| Manchester | | | | | | | | | | | | | | | | | DEF057 |
|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|--------|
| (9/00 9/01) | (9/00 9/03) | (9/02 9/03) | (9/03 9/04) | (9/04 9/05) | (9/05 9/06) | (9/06 9/07) | (9/07 9/08) | (9/08 9/09) | (9/09 9/10) | (9/10 9/11) | (9/11 9/12) | (9/12 9/13) | (9/13 9/14) | (9/14 9/15) | subtotal | | |
| pool #1 | pool #2 | pool #3 | pool #4 | pool #5 | pool #6 | pool #7 | pool #8 | pool #9 | pool #10 | pool #11 | pool #12 | pool #13 | pool #14 | pool #15 | | | |
| - | - | (withdrawn 2/1/04) | | | | | Incl. Audit Corr | | | | | | | | | | |
| 495,106 | 329,986 | | 335,338 | 1,989,848 | 875,702 | 561,210 | 4,387,645 | 312,185 | 369,037 | 372,237 | 507,622 | 82,113 | 92,900 | 116,496 | 10,002,333 | 825,092 | |
| 495,106 | 329,986 | - | 335,338 | 1,989,848 | 875,702 | 561,210 | 4,387,645 | 312,185 | 369,037 | 372,237 | 507,622 | 82,113 | 92,900 | 116,496 | 10,827,425 | | |
| - | - | | | | (545,540) | (220,353) | (1,127,436) | | (40,359) | (234,648) | (65,324) | (270,732) | (31,690) | (41,057) | (2,577,139) | | |
| - | - | | 1,242,326 | | | 2,546 | - | | | | | | | | 1,244,872 | | |
| - | - | - | 1,242,326 | - | (545,540) | (217,807) | (1,127,436) | - | (40,359) | (234,648) | (65,324) | (270,732) | (31,690) | (41,057) | (1,332,267) | | |
| 495,106 | 329,986 | - | 1,577,664 | 1,989,848 | 330,162 | 343,402 | 3,260,209 | 312,185 | 328,678 | 137,589 | 442,298 | (188,619) | 61,210 | 75,440 | 9,495,158 | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| (73,543) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (73,543) | |
| (75,984) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (75,984) | |
| (72,835) | (24,416) | (41,325) | - | - | - | - | - | - | - | - | - | - | - | - | - | (138,576) | |
| (70,898) | (42,539) | - | (212,695) | - | - | - | - | - | - | - | - | - | - | - | - | (326,132) | |
| (54,998) | (41,249) | - | (206,243) | (261,242) | - | - | - | - | - | - | - | - | - | - | - | (563,732) | |
| (70,454) | (56,363) | - | (211,361) | (281,815) | (42,272) | - | - | - | - | - | - | - | - | - | - | (662,265) | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
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| - | - | - | - | - | - | - | | | | | | | | | | | |

1. While the recoveries are displayed on the Summary, Cash Recoveries by site, are not exclusive to a particular

Filed under the following protective orders:
Order No. 22,853 dated February 18, 1998 in Docket No. DR 97-130
Order No. 23,316 dated October 11, 1999 in Docket No. DG 99-132

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Environmental Remediation - MGPs
Tariff page 80

| Nashua | | | | | | | | | | | | | | | | | |
|---|------------------|-----------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|-------------|
| Corrected per 2/08 Audit | | | | | | | | | | | | | | | | | DEF054 |
| | (9/00 pool #1 | 9/01 pool #2 | 9/02 9/03 pool #3 | 9/03 9/04 pool #4 | 9/04 9/05 pool #5 | 9/05 9/06 pool #6 | 9/06 9/07 pool #7 | 9/07 9/08 pool #8 | 9/08 9/09 pool #9 | 9/09 9/10 pool #10 | 9/10 9/11 pool #11 | 9/11 9/12 pool #12 | 9/12 9/13 pool #13 | 9/13 9/14 pool #14 | 9/14 9/15 pool #15 | | subtotal |
| 1 1 Remediation costs (i.o. 500061) | - | - | - | 10,841 | 206,367 | 23,354 | 9,737 | 107,605 | 78,535 | 162,729 | 65,118 | 399,400 | 119,095 | 63,397 | 105,917 | | 1,352,095 |
| 2 Remediation costs (i.o. 500005) | 1,233,726 | 362,663 | 175,178 | | | | | | | | | | | | | | 1,771,567 |
| 3 A Subtotal - remediation costs | 1,233,726 | 362,663 | 175,178 | 10,841 | 206,367 | 23,354 | 9,737 | 107,605 | 78,535 | 162,729 | 65,118 | 399,400 | 119,095 | 63,397 | 105,917 | | 3,123,662 |
| 4 | | | | | | | | | | | | | | | | | |
| 5 Cash recoveries (i.o. 500061) | - | - | - | | | (18,581) | (4,151) | (10,414) | (62,246) | (63,753) | (31,767) | (2,990) | (199,336) | (27,447) | (40,699) | | (461,385) |
| 6 Cash recoveries (i.o. 500004) | - | - | - | | | | | | | | | | | | | | - |
| 7 Recovery costs (i.o. 500004) | - | - | - | | | 5,449 | 12,938 | - | - | | | | | | | | 18,388 |
| 8 Transfer Credit from Gas Restructuring | | | | | | - | - | - | - | | | | | | | | - |
| 9 B Subtotal - net recoveries | - | - | - | - | | (13,131) | 8,787 | (10,414) | (62,246) | (63,753) | (31,767) | (2,990) | (199,336) | (27,447) | (40,699) | | (442,998) |
| 10 | | | | | | | | | | | | | | | | | - |
| 11 A-B Total net expenses to recover | 1,233,726 | 362,663 | 175,178 | 10,841 | 206,367 | 10,223 | 18,524 | 97,191 | 16,289 | 98,975 | 33,351 | 396,411 | (80,241) | 35,950 | 65,217 | | 2,680,664 |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 Surcharge revenue: | | | | | | | | | | | | | | | | | |
| 15 Act June 1998 - October 1998 | - | - | - | - | | | | | | | | | | | | | - |
| 16 Act November 1998 - October 1999 | - | - | - | - | | | | | | | | | | | | | - |
| 17 Act November 1999 - October 2000 | - | - | - | - | | | | | | | | | | | | | - |
| 18 Act November 2000 - October 2001 | - | - | - | - | | | | | | | | | | | | | - |
| 19 Act November 2001 - October 2002 | (183,857) | - | - | - | | | | | | | | | | | | | (183,857) |
| 20 Act November 2002 - October 2003 | (182,362) | (60,787) | - | - | | | | | | | | | | | | | (243,150) |
| 21 Act November 2003 - October 2004 | (174,804) | (43,701) | (29,134) | - | | | | | | | | | | | | | (247,639) |
| 22 Act November 2004- October 2005 | (170,156) | (42,539) | (28,359) | - | | | | | | | | | | | | | (241,054) |
| 23 Act November 2005- October 2006 | (164,995) | (54,998) | (27,499) | - | (27,499) | | | - | - | - | - | - | - | - | - | | (274,991) |
| 24 Act November 2006- October 2007 | (169,089) | (56,363) | (28,181) | - | (28,181) | - | | | | | | | | | | | (281,815) |
| 25 Act November 2007- October 2008 | | | | | | | | | | | | | | | | | - |
| 26 Act November 2012- October 2013 | | | | | | | | | | | | (40,012) | | | | | (40,012) |
| 27 Act November 2013- October 2014 | | | | | | | | | | | | (38,246) | | | | | (38,246) |
| 28 Act Nov 2009-Oct 2010 Base Rate Rev | | | | | | | | | | | - | | | | | | - |
| 29 Act Nov 2010-Oct 2011 Base Rate Rev | | | | | | | | | | | - | | | | | | - |
| 30 Act Nov 2011-Oct 2012 Base Rate Rev | | | | | | | | | | | - | | | | | | - |
| 31 Act Nov 2012-Oct 2013 Base Rate Rev | | | | | | | | | | | - | (20,916) | | | | | (20,916) |
| 32 Act Nov 2013-Oct 2014 Base Rate Rev | | | | | | | | | | | | | | | | | - |
| 33 Act Nov 2014-Oct 2015 Base Rate Rev | | | | | | | | | | | | | | | | | - |
| 34 AES collections | | | | | | | | | | | | | | | | | - |
| 35 Gas Street overcollection | | | | | | | | | | | | | | | | | - |
| 36 Prior Period Pool under/overcollection | | 188,463 | 292,737 | 354,741 | 365,582 | 516,269 | 526,492 | 545,015 | - | - | - | (962) | - | - | - | | - |
| 37 | | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | |
| 39 C Surcharge Subtotal | (1,045,263) | (69,925) | 179,564 | 354,741 | 309,902 | 516,269 | 526,492 | 545,015 | - | - | - | (100,136) | - | - | - | | (1,571,680) |
| 40 | | | | | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | | | | | |
| 42 D Net balance to be recovered (A-B+C) | 188,463 | 292,737 | 354,741 | 365,582 | 516,269 | 526,492 | 545,015 | 642,206 | 16,289 | 98,975 | 33,351 | 296,275 | (80,241) | 35,950 | 65,217 | | 1,108,985 |
| 43 | | | | | | | | | | | | | | | | | |
| 44 E Allocation of Litigated Recovery | - | - | - | - | - | - | - | (642,206) | (16,289) | (98,975) | (34,313) | - | - | - | - | | (791,783) |
| 45 | | | | | | | | | | | | | | | | | |
| 46 Surcharge calculation | | | | | | | | | | | | | | | | | |
| 47 Unrecovered costs (D+E) | - | - | - | - | - | - | - | - | - | - | | 296,275 | (80,241) | 35,950 | 65,217 | | 317,201 |
| 48 remaining life | - | - | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 84 | 72 | 48 | 60 | 72 | 84 | | |
| 49 one year | - | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | |
| 50 F amortization | - | - | - | - | - | - | - | - | - | - | - | 74,069 | (16,048) | 5,992 | 9,317 | | |
| 51 | | | | | | | | | | | | | | | | | |
| 52 Required annual increase in rates: | | | | | | | | | | | | | | | | | |
| 53 smaller of D or F | - | - | - | - | - | - | - | - | - | - | - | 74,069 | (16,048) | 5,992 | 9,317 | | 73,329 |
| 54 | | | | | | | | | | | | | | | | | |
| 55 forecasted therm sales | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | | 184,393,263 |
| 56 | | | | | | | | | | | | | | | | | |
| 57 surcharge per therm | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0004 | (\$0.0001) | \$0.0000 | \$0.0001 | | \$0.0004 |

1. While the recoveries are displayed on the Summary, Cash Recoveries by site, are not exclusive to a particular

Filed under the following protective orders:
Order No. 22,853 dated February 18, 1998 in Docket No. DR 97-130
Order No. 23,316 dated October 11, 1999 in Docket No. DG 99-132

Liberty Utilities (EnergyNorth Natural Gas) Corp.
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| Dover | | | | | | | | | | | | | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|-------------|
| DEF059 | | | | | | | | | | | | | |
| | (9/02 - 9/03) pool #1 | (9/04 - 9/05) pool #2 | (9/05 - 9/06) pool #3 | (9/06 - 9/07) pool #4 | (9/07 - 9/08) pool #5 | (9/08 - 9/09) pool #6 | (9/09 - 9/10) pool #7 | (9/10 - 9/11) pool #8 | (9/11 - 9/12) pool #9 | (9/12 - 9/13) pool #10 | (9/13 - 9/14) pool #11 | (9/14 - 9/15) pool #12 | subtotal |
| 1 1 Remediation costs (i.o. 500061) | - | 18,854 | 2,288 | - | - | - | - | - | - | - | - | - | 21,142 |
| 2 Remediation costs (i.o. 500005) | 181,066 | | | | | | | | | | | | 181,066 |
| 3 A Subtotal - remediation costs | 181,066 | 18,854 | 2,288 | - | - | - | - | - | - | - | - | - | 202,208 |
| 4 | | | | | | | | | | | | | |
| 5 Cash recoveries (i.o. 500061) | - | | | | | - | - | - | - | - | - | - | - |
| 6 Cash recoveries (i.o. 500004) | - | | | | | | | | | | | | - |
| 7 Recovery costs (i.o. 500004) | - | | | | | | | | | | | | - |
| 8 Transfer Credit from Gas Restructuring | | | | | | | | | | | | | - |
| 9 B Subtotal - net recoveries | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | | | | | | | | | | | | | |
| 11 A-B Total net expenses to recover | 181,066 | 18,854 | 2,288 | - | - | - | - | - | - | - | - | - | 202,208 |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 Surcharge revenue: | | | | | | | | | | | | | |
| 15 Act June 1998 - October 1998 | - | | | | | | | | | | | | - |
| 16 Act November 1998 - October 1999 | - | | | | | | | | | | | | - |
| 17 Act November 1999 - October 2000 | - | | | | | | | | | | | | - |
| 18 Act November 2000 - October 2001 | - | | | | | | | | | | | | - |
| 19 Act November 2001 - October 2002 | - | | | | | | | | | | | | - |
| 20 Act November 2002 - October 2003 | - | | | | | | | | | | | | - |
| 21 Act November 2003 - October 2004 | (29,134) | | | | | | | | | | | | (29,134) |
| 22 Act November 2004- October 2005 | (28,359) | | | | | | | | | | | | (28,359) |
| 23 Act November 2005- October 2006 | (27,499) | | | | | - | - | - | - | - | - | - | (27,499) |
| 24 Act November 2006- October 2007 | (28,181) | - | - | | | | | | | | | | (28,181) |
| 25 Act November 2007- October 2008 | | | | | | | | | | | | | - |
| 26 Act November 2012- October 2013 | | | | | | | | | | | | | - |
| 27 Act November 2013- October 2014 | | | | | | | | | | | | | - |
| 28 Act Nov 2009-Oct 2010 Base Rate Rev | | | | | | | | | | | | | - |
| 29 Act Nov 2010-Oct 2011 Base Rate Rev | | | | | | | | | | | | | - |
| 30 Act Nov 2011-Oct 2012 Base Rate Rev | | | | | | | | | | | | | - |
| 31 Act Nov 2012-Oct 2013 Base Rate Rev | | | | | | | | | | | | | - |
| 32 Act Nov 2013-Oct 2014 Base Rate Rev | | | | | | | | | | | | | - |
| 33 Act Nov 2014-Oct 2015 Base Rate Rev | | | | | | | | | | | | | - |
| 34 AES collections | | | | | | | | | | | | | - |
| 35 Gas Street overcollection | | | | | | | | | | | | | - |
| 36 Prior Period Pool under/overcollection | | 67,892 | 86,746 | 89,034 | 89,034 | - | - | - | - | - | - | - | - |
| 37 | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | |
| 39 C Surcharge Subtotal | (113,174) | 67,892 | 86,746 | 89,034 | 89,034 | - | - | - | - | - | - | - | (113,174) |
| 40 | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | |
| 42 D Net balance to be recovered (A-B+C) | 67,892 | 86,746 | 89,034 | 89,034 | 89,034 | - | - | - | - | - | - | - | 89,034 |
| 43 | | | | | | | | | | | | | |
| 44 E Allocation of Litigated Recovery | | - | | - | (89,034) | - | - | - | - | - | - | - | (89,034) |
| 45 | | | | | | | | | | | | | |
| 46 Surcharge calculation | | | | | | | | | | | | | |
| 47 Unrecovered costs (D+E) | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 48 remaining life | 24 | 36 | 48 | 60 | 72 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | |
| 49 one year | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 50 F amortization | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 51 | | | | | | | | | | | | | |
| 52 Required annual increase in rates: | | | | | | | | | | | | | |
| 53 smaller of D or F | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 54 | | | | | | | | | | | | | |
| 55 forecasted therm sales | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 |
| 56 | | | | | | | | | | | | | |
| 57 surcharge per therm | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 |

1. While the recoveries are displayed on the Summary, Cash Recoveries by site, are not exclusive to a particular

Filed under the following protective orders:
Order No. 22,853 dated February 18, 1998 in Docket No. DR 97-130
Order No. 23,316 dated October 11, 1999 in Docket No. DG 99-132

REDACTED

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Environmental Remediation - MGPs
Tariff page 80

| Keene | | | | | | | | | | | | | |
|--------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|
| DEF055 | | | | | | | | | | | | | |
| | (9/03 - 9/04) | (9/04 - 9/05) | (9/05 - 9/06) | (9/06 - 9/07) | (9/07 - 9/08) | (9/08 - 9/09) | (9/09 - 9/10) | (9/10 - 9/11) | (9/11 - 9/12) | (9/12 - 9/13) | (9/13 - 9/14) | (9/14 - 9/15) | subtotal |
| | pool #1 | pool #2 | pool #3 | pool #4 | pool #5 | pool #6 | pool #7 | pool #8 | pool #9 | pool #10 | pool #11 | pool #12 | |
| 1 | 1 Remediation costs (i.o. 500061) | - | | | | | | | | | | | |
| 2 | Remediation costs (i.o. 500005) | 10,165 | 6,606 | 35,111 | 8,766 | 32 | 269 | - | - | 488 | 1,400 | | |
| 3 | A Subtotal - remediation costs | 10,165 | 6,606 | 35,111 | 8,766 | 32 | 269 | - | - | 488 | 1,400 | | |
| 4 | | | | | | | | | | | | | |
| 5 | Cash recoveries (i.o. 500061) | - | | | | | | | | | | | |
| 6 | Cash recoveries (i.o. 500004) | - | | | | | | | | | | | |
| 7 | Recovery costs (i.o. 500004) | | | 18,831 | 823 | - | - | - | - | | | | |
| 8 | Transfer Credit from Gas Restructuring | | | | - | - | - | | | | | | |
| 9 | B Subtotal - net recoveries | - | | 18,831 | 823 | - | - | - | - | - | - | | |
| 10 | | | | | | | | | | | | | |
| 11 | A-B Total net expenses to recover | 10,165 | 6,606 | 53,942 | 9,589 | 32 | 269 | - | - | 488 | 1,400 | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | Surcharge revenue: | | | | | | | | | | | | |
| 15 | Act June 1998 - October 1998 | - | | | | | | | | | | | |
| 16 | Act November 1998 - October 1999 | - | | | | | | | | | | | |
| 17 | Act November 1999 - October 2000 | - | | | | | | | | | | | |
| 18 | Act November 2000 - October 2001 | - | | | | | | | | | | | |
| 19 | Act November 2001 - October 2002 | - | | | | | | | | | | | |
| 20 | Act November 2002 - October 2003 | - | | | | | | | | | | | |
| 21 | Act November 2003 - October 2004 | - | | | | | | | | | | | |
| 22 | Act November 2004- October 2005 | - | - | | | - | - | - | - | - | - | - | |
| 23 | Act November 2005- October 2006 | - | - | | | - | - | - | - | - | - | - | |
| 24 | Act November 2006- October 2007 | - | - | (14,091) | | | | | | | | | (14,091) |
| 25 | Act November 2007- October 2008 | | | | | | | | | | | | |
| 26 | Act November 2012- October 2013 | | | | | | | | | | | | |
| 27 | Act November 2013- October 2014 | | | | | | | | | | | | |
| 28 | Act Nov 2009-Oct 2010 Base Rate Rev | | | | | | | | | | | | |
| 29 | Act Nov 2010-Oct 2011 Base Rate Rev | | | | | | | | | | | | |
| 30 | Act Nov 2011-Oct 2012 Base Rate Rev | | | | | | | | | | | | |
| 31 | Act Nov 2012-Oct 2013 Base Rate Rev | | | | | | | | | | | | |
| 32 | Act Nov 2013-Oct 2014 Base Rate Rev | | | | | | | | | | | | |
| 33 | Act Nov 2014-Oct 2015 Base Rate Rev | | | | | | | | | | | | |
| 34 | AES collections | | | | | | | | | | | | |
| 35 | Gas Street overcollection | | | | | | | | | | | | |
| 36 | Prior Period Pool under/overcollection | | 10,165 | 16,771 | 56,622 | 66,211 | - | - | - | - | - | - | |
| 37 | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | |
| 39 | C Surcharge Subtotal | - | 10,165 | 2,680 | 56,622 | 66,211 | - | - | - | - | - | - | (14,091) |
| 40 | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | |
| 42 | D Net balance to be recovered (A-B+C) | 10,165 | 16,771 | 56,622 | 66,211 | 66,244 | 269 | - | - | 488 | 1,400 | | |
| 43 | | | | | | | | | | | | | |
| 44 | E Allocation of Litigated Recovery | - | - | - | - | (66,244) | (269) | - | - | - | - | | |
| 45 | | | | | | | | | | | | | |
| 46 | Surcharge calculation | | | | | | | | | | | | |
| 47 | Unrecovered costs (D+E) | - | - | - | | | - | - | - | 488 | 1,400 | | |
| 48 | remaining life | 24 | 36 | 48 | 60 | 72 | 84 | 84 | 84 | 48 | 60 | | |
| 49 | one year | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | |
| 50 | F amortization | - | - | - | - | - | - | - | - | 122 | 280 | | |
| 51 | | | | | | | | | | | | | |
| 52 | Required annual increase in rates: | | | | | | | | | | | | |
| 53 | smaller of D or F | - | - | - | | | - | - | - | 122 | 280 | | |
| 54 | | | | | | | | | | | | | |
| 55 | forecasted therm sales | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 |
| 56 | | | | | | | | | | | | | |
| 57 | surcharge per therm | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | | | |

1. While the recoveries are displayed on the Summary, Cash Recoveries by site, are not exclusive to a particular

Filed under the following protective orders:
Order No. 22,853 dated February 18, 1998 in Docket No. DR 97-130
Order No. 23,316 dated October 11, 1999 in Docket No. DG 99-132

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Environmental Remediation - MGPs
Tariff page 80

| Concord | | | | | | | | | | | | | |
|---|---------------|---------------|---|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|
| DEF077 | | | | | | | | | | | | | |
| | (9/03 - 9/04) | (9/04 - 9/05) | Corrected per 1/24/07 Audit (9/05 - 9/06) | Corrected per 2/08 Audit (9/06 - 9/07) | (9/07 - 9/08) | (9/08 - 9/09) | (9/09 - 9/10) | (9/10 - 9/11) | (9/11 - 9/12) | (9/12 - 9/13) | (9/13 - 9/14) | (9/14 - 9/15) | subtotal |
| | pool #1 | pool #2 | pool #3 | pool #4 | pool #5 | pool #6 | pool #7 | pool #8 | pool #9 | pool #10 | pool #11 | pool #12 | |
| 1 1 Remediation costs (i.o. 500061) | - | | | | | | | | | | | | - |
| 2 Remediation costs (i.o. 500005) | 22,191 | 220,932 | 44,345 | 109,642 | 8,006 | 77,063 | 49,403 | 179,732 | 289,103 | 84,256 | 135,673 | 192,525 | 1,412,871 |
| 3 A Subtotal - remediation costs | 22,191 | 220,932 | 44,345 | 109,642 | 8,006 | 77,063 | 49,403 | 179,732 | 289,103 | 84,256 | 135,673 | 192,525 | 1,412,871 |
| 4 | | | | | | | | | | | | | |
| 5 Cash recoveries (i.o. 500061) | - | | (22,239) | (47,977) | (12,601) | 16,623 | (3,213) | (11,394) | (31,575) | (38,871) | (12,319) | (28,742) | (192,308) |
| 6 Cash recoveries (i.o. 500004) | - | | | | | | | | | | | | - |
| 7 Recovery costs (i.o. 500004) | | | | | 1,432 | (1,007) | | | | | | | 425 |
| 8 Transfer Credit from Gas Restructuring | | | - | | | | | | | | | | - |
| 9 B Subtotal - net recoveries | - | - | (22,239) | (47,977) | (11,169) | 15,616 | (3,213) | (11,394) | (31,575) | (38,871) | (12,319) | (28,742) | (191,882) |
| 10 | | | | | | | | | | | | | |
| 11 A-B Total net expenses to recover | 22,191 | 220,932 | 22,106 | 61,665 | (3,163) | 92,679 | 46,190 | 168,338 | 257,528 | 45,384 | 123,355 | 163,783 | 1,220,989 |
| 12 | | | | | | | | | | | | | - |
| 13 | | | | | | | | | | | | | - |
| 14 Surcharge revenue: | | | | | | | | | | | | | - |
| 15 Act June 1998 - October 1998 | - | | | | | | | | | | | | - |
| 16 Act November 1998 - October 1999 | - | | | | | | | | | | | | - |
| 17 Act November 1999 - October 2000 | - | | | | | | | | | | | | - |
| 18 Act November 2000 - October 2001 | - | | | | | | | | | | | | - |
| 19 Act November 2001 - October 2002 | - | | | | | | | | | | | | - |
| 20 Act November 2002 - October 2003 | - | | | | | | | | | | | | - |
| 21 Act November 2003 - October 2004 | - | | | | | | | | | | | | - |
| 22 Act November 2004- October 2005 | - | (27,499) | | | | | | | | | | | (27,499) |
| 23 Act November 2005- October 2006 | - | (28,181) | - | | | | | | | | | | (28,181) |
| 24 Act November 2006- October 2007 | - | | | | | | | | | | | | - |
| 25 Act November 2007- October 2008 | | | | | | | | | | | | | - |
| 26 Act November 2012- October 2013 | | | | | | | | (20,006) | (20,006) | | | | (40,012) |
| 27 Act November 2013- October 2014 | | | | | | | | (12,749) | (25,497) | | | | (38,246) |
| 28 Act Nov 2009-Oct 2010 Base Rate Rev | | | | | | | | (\$1,891) | | | | | (1,891) |
| 29 Act Nov 2010-Oct 2011 Base Rate Rev | | | | | | | | (\$13,816) | | | | | (13,816) |
| 30 Act Nov 2011-Oct 2012 Base Rate Rev | | | | | | | | (\$12,164) | | | | | (12,164) |
| 31 Act Nov 2012-Oct 2013 Base Rate Rev | | | | | | | | (\$6,794) | (\$6,794) | | | | (13,588) |
| 32 Act Nov 2013-Oct 2014 Base Rate Rev | | | | | | | | | | | | | - |
| 33 Act Nov 2014-Oct 2015 Base Rate Rev | | | | | | | | | | | | | - |
| 34 AES collections | | | | | | | | | | | | | - |
| 35 Gas Street overcollection | | | | | | | | | | | | | - |
| 36 Prior Period Pool under/overcollection | | 22,191 | 187,442 | 209,549 | 271,214 | - | - | - | - | - | - | - | - |
| 37 | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | |
| 39 C Surcharge Subtotal | - | (33,490) | 187,442 | 209,549 | 271,214 | - | - | (67,420) | (52,297) | - | - | - | (175,398) |
| 40 | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | |
| 42 D Net balance to be recovered (A-B+C) | 22,191 | 187,442 | 209,549 | 271,214 | 268,051 | 92,679 | 46,190 | 100,919 | 205,231 | 45,384 | 123,355 | 163,783 | 1,045,591 |
| 43 | | | | | | | | | | | | | - |
| 44 E Allocation of Litigated Recovery | - | - | - | - | (268,051) | (92,679) | (46,190) | (13,870) | - | - | - | - | (420,789) |
| 45 | | | | | | | | | | | | | - |
| 46 Surcharge calculation | | | | | | | | | | | | | - |
| 47 Unrecovered costs (D+E) | - | - | - | - | - | - | - | 87,049 | 205,231 | 45,384 | 123,355 | 163,783 | 624,802 |
| 48 remaining life | 36 | 48 | 60 | 72 | 84 | 84 | 36 | 48 | 60 | 72 | 84 | 84 | |
| 49 one year | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | |
| 50 F amortization | - | - | - | - | - | - | - | 29,016 | 51,308 | 9,077 | 20,559 | 23,398 | |
| 51 | | | | | | | | | | | | | |
| 52 Required annual increase in rates: | | | | | | | | | | | | | |
| 53 smaller of D or F | - | - | - | - | - | - | - | 29,016 | 51,308 | 9,077 | 20,559 | 23,398 | 133,358 |
| 54 | | | | | | | | | | | | | |
| 55 forecasted therm sales | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 | 184,393,263 |
| 56 | | | | | | | | | | | | | |
| 57 surcharge per therm | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0000 | \$0.0002 | \$0.0003 | \$0.0000 | \$0.0001 | \$0.0001 | \$0.0007 |

1. While the recoveries are displayed on the Summary, Cash Recoveries by site, are not exclusive to a particular

Filed under the following protective orders:
Order No. 22,853 dated February 18, 1998 in Docket No. DR 97-130
Order No. 23,316 dated October 11, 1999 in Docket No. DG 99-132

REDACTED

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Environmental Remediation - MGPs
Tariff page 80

| General | | | | | | | | | | | | | | | DEF064 | | 2015 |
|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|--|-------------|
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Filed under the following protective orders:
Order No. 22,853 dated February 18, 1998 in Docket No. DR 97-130
Order No. 23,316 dated October 11, 1999 in Docket No. DG 99-132

REDACTED

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Environmental Remediation - MGPs
Tariff page 80

Expense and Collection Summary per Year

| | | (thru 9/98) | (9/99 9/00) | (9/00 9/01) | (9/01 9/02) | (9/02 9/03) | (9/03 9/04) | (9/04 9/05) | (9/05 9/06) | (9/06 9/07) | (9/07 9/08) | (9/08 9/09) | (9/09 9/10) | (9/10 9/11) | (9/11 9/12) | (9/12 9/13) | (9/13 9/14) | (9/14 9/15) | Total |
|----|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|--------------|
| 1 | 1 Remediation costs (i.o. 500061) | 5,420,852 | 129,002 | - | - | - | 406,472 | 2,236,682 | 997,637 | 726,742 | 4,590,624 | 518,907 | 674,766 | 686,515 | 993,434 | 279,595 | 196,611 | 312,039 | |
| 2 | Remediation costs (i.o. 500005) | 1,027,747 | 3,513,285 | 2,428,832 | 362,663 | 359,451 | 571,259 | 445,367 | 2,444,366 | 2,229,625 | 255,263 | 658,324 | 316,280 | 459,550 | 651,906 | 803,846 | 1,801,404 | 7,975,914 | |
| 3 | A Subtotal - remediation costs | 6,448,599 | 3,642,287 | 2,428,832 | 362,663 | 359,451 | 977,731 | 2,682,050 | 3,442,003 | 2,956,367 | 4,845,887 | 1,177,231 | 991,045 | 1,146,065 | 1,645,340 | 1,083,441 | 1,998,015 | 8,287,953 | |
| 4 | | | | | | | | | | | | | | | | | | | |
| 5 | Cash recoveries (i.o. 500061) | (2,014,740) | (33,204) | - | - | - | - | - | (600,673) | (285,927) | (1,150,452) | (58,231) | (113,390) | (310,226) | (105,062) | (528,258) | (79,446) | (121,889) | |
| 6 | Cash recoveries (i.o. 500004) | (445,985) | - | - | - | - | (4,765,500) | (1,779,370) | (3,288,281) | (11,935,301) | (1,033,751) | 9,795 | - | - | - | - | - | - | |
| 7 | Recovery costs (i.o. 500004) | 623,784 | - | - | - | - | 5,622,795 | 1,905,791 | 2,350,722 | 377,106 | 678,985 | (2,078,366) | - | - | (14,068) | (1,358) | 2,500,000 | 2,475,750 | |
| 8 | Transfer Credit from Gas Restructuring | - | - | - | - | (3,331) | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9 | B Subtotal - net recoveries | (1,836,941) | (33,204) | - | - | (3,331) | 857,295 | 126,421 | (1,538,231) | (11,844,123) | (1,505,218) | (2,126,802) | (113,390) | (310,226) | (119,129) | (529,616) | 2,420,554 | 2,353,861 | |
| 10 | | | | | | | | | | | | | | | | | | | |
| 11 | A-B Total net expenses to recover | 4,611,659 | 3,609,083 | 2,428,832 | 362,663 | 356,120 | 1,835,026 | 2,808,471 | 1,903,772 | (8,887,756) | 3,340,669 | (949,571) | 877,655 | 835,839 | 1,526,211 | 553,825.34 | 4,418,569.29 | 10,641,813.86 | |
| 12 | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | |
| 14 | Surcharge revenue: | | | | | | | | | | | | | | | | | | |
| 15 | Act June 1998 - October 1998 | (54,889) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (54,889) |
| 16 | Act November 1998 - October 1999 | (538,143) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (538,143) |
| 17 | Act November 1999 - October 2000 | (912,804) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (912,804) |
| 18 | Act November 2000 - October 2001 | (779,786) | (556,990) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (1,336,776) |
| 19 | Act November 2001 - October 2002 | (759,943) | (551,571) | (367,714) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (1,679,228) |
| 20 | Act November 2002 - October 2003 | (744,646) | (562,284) | (364,725) | (60,787) | - | - | - | - | - | - | - | - | - | - | - | - | - | (1,732,442) |
| 21 | Act November 2003 - October 2004 | (422,442) | (480,710) | (349,608) | (43,701) | (107,858) | - | - | - | - | - | - | - | - | - | - | - | - | (1,404,319) |
| 22 | Act November 2004- October 2005 | (184,336) | (453,749) | (326,132) | (42,539) | (56,719) | (297,773) | - | - | - | - | - | - | - | - | - | - | - | (1,361,248) |
| 23 | Act November 2005- October 2006 | (141,176) | (460,610) | (316,240) | (54,998) | (54,998) | (281,866) | (343,739) | - | - | - | - | - | - | - | - | - | - | (1,653,628) |
| 24 | Act November 2006- October 2007 | - | (549,539) | (338,178) | (56,363) | (56,363) | (288,860) | (366,359) | (429,768) | - | - | - | - | - | - | - | - | - | (2,085,430) |
| 25 | Act November 2007- October 2008 | | | | | | | | | | | | | | | | | | - |
| 26 | Act November 2012- October 2013 | | | | | | | | | - | - | - | - | (30,009) | (130,039) | - | - | - | (160,048) |
| 27 | Act November 2013- October 2014 | | | | | | | | | | | | | (38,246) | (165,731) | (89,240) | - | - | (293,217) |
| 28 | Act Nov 2009-Oct 2010 Base Rate Rev | | | | | | | | | | | | | (10,611) | - | - | - | - | (10,611) |
| 29 | Act Nov 2010-Oct 2011 Base Rate Rev | | | | | | | | | | | | | (77,509) | - | - | - | - | (77,509) |
| 30 | Act Nov 2011-Oct 2012 Base Rate Rev | | | | | | | | | | | | | (68,244) | - | - | - | - | (68,244) |
| 31 | Act Nov 2012-Oct 2013 Base Rate Rev | | | | | | | | | | | | | (8,937) | (67,398) | - | - | - | (76,335) |
| 32 | Act Nov 2013-Oct 2014 Base Rate Rev | | | | | | | | | | | | | - | (28,433) | (28,433) | (28,433) | - | (85,298) |
| 33 | Act Nov 2014-Oct 2015 Base Rate Rev | | | | | | | | | | | | | - | (21,909) | (21,909) | (21,909) | (21,909) | (87,637) |
| 34 | AES collections | - | - | - | - | - | (33,593) | (11,626) | (11,901) | (12,271) | (12,620) | (12,904) | (13,145) | (13,221) | (13,738) | (13,725) | (13,948) | (14,173) | (176,865) |
| 35 | Gas Street overcollection | (23,511) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (23,511) |
| 36 | Prior Period Pool under/overcollection | | | | | | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | | | |
| 39 | C Surcharge Subtotal | (4,561,677) | (3,615,454) | (2,062,596) | (258,389) | (275,938) | (902,092) | (721,725) | (441,669) | (12,271) | (12,620) | (12,904) | (13,145) | (246,777) | (427,248) | (153,306) | (64,290) | (36,082) | (13,818,184) |
| 40 | | | | | | | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | | | | | | | |
| 42 | D Net balance to be recovered (A-B+C) | 49,982 | (6,371) | 366,236 | 104,274 | 80,183 | 932,934 | 2,086,746 | 1,462,103 | (8,900,027) | 3,328,049 | (962,475) | 864,510 | 589,062 | 1,098,962 | 400,519 | 4,354,279 | 10,605,732 | |
| 43 | | | | | | | | | | | | | | | | | | | |
| 44 | E Allocation of Litigated Recovery | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | |
| 46 | Surcharge calculation | | | | | | | | | | | | | | | | | | |
| 47 | Unrecovered costs (D+E) | | | | | | | | | | | | | | | | | | |
| 48 | remaining life | | | | | | | | | | | | | | | | | | |
| 49 | one year | | | | | | | | | | | | | | | | | | |
| 50 | F amortization | | | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | | | |
| 52 | Required annual increase in rates: | | | | | | | | | | | | | | | | | | |
| 53 | smaller of D or F | | | | | | | | | | | | | | | | | | |
| 54 | | | | | | | | | | | | | | | | | | | |
| 55 | forecasted therm sales | | | | | | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | | | | | | | |
| 57 | surcharge per therm | | | | | | | | | | | | | | | | | | |

1. While the recoveries are displayed on the Summary, Cash Recoveries by site, are not exclusive to a particular

Schedule 21

Liberty Utilities (EnergyNorth Natural Gas) Corp.

**Calculation of Supplier Balancing Charge
2015-16**

Rate: \$0.24 /MMBtu

| | Rate | Volume | Total |
|-------------------------------------|-------------|----------------|----------------------|
| Injection Cost | \$0.0087 | 321,091 | \$2,793 |
| Fuel (.80%) | \$0.0140 | 321,091 | \$4,495 |
| Withdrawal Cost | \$0.0087 | 292,252 | \$2,543 |
| Delivery Rate | \$0.0506 | 292,252 | \$14,797 |
| FTA Demand Charge | \$0.2768 | 292,252 | \$80,883 |
| FTA Commodity Charge | \$0.1250 | 292,252 | \$36,531 |
| Fuel (.88%) | \$0.0154 | 292,252 | \$4,501 |
| Total Cost | | | \$146,544 |
| Absolute Value of the Sendout Error | | | 613,343 MMBtu |
| Rate \$ | | | 0.24 /MMBTU |

NOTES: See Tennessee Gas Pipeline Tariff Pages in Tab 6

| | |
|--------------------------------|----------------------------|
| TGP FSMA Injection Charge | \$0.0087 / MMBtu |
| TGP FSMA Withdrawal Charge | \$0.0087 / MMBtu |
| TGP FSMA Deliverability Charge | \$1.54 / MMBtu per month |
| | \$0.0506 / MMBtu per day |
| TGP Z4-6 Demand Charge | \$8.4181 / MMBtu per month |
| | \$0.2768 / MMBtu per day |
| TGP Z4-6 Commodity Charge | \$0.1250 / MMBtu |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

Calculation of Supplier Balancing Charge
2015-16
Estimated Monthly Imbalances

| <u>Date</u> | <u>Forecasted</u> <u>DD</u> | <u>Actual</u> <u>DD</u> | <u>Forecaster</u> <u>Error</u> <u>DD</u> | <u>Forecasted</u> <u>Sendout</u> <u>(MMBtu)</u> | <u>Actual</u> <u>Sendout</u> <u>(MMBtu)</u> | <u>Sendout</u> <u>Error</u> <u>(MMBtu)</u> | <u>Abs.Value</u> <u>Sendout</u> <u>Error</u> <u>(MMBtu)</u> | <u>Injections</u> <u>(MMBtu)</u> | <u>Withdrawals</u> <u>(MMBtu)</u> |
|--------------|--------------------------------|----------------------------|--|---|---|--|--|-------------------------------------|--------------------------------------|
| Nov | 787 | 775 | 12 | 1,383,237 | 1,365,555 | 17,682 | 67,780 | 42,731 | 25,049 |
| Dec | 963 | 971 | -8 | 1,781,465 | 1,795,646 | -14,181 | 116,991 | 51,405 | 65,586 |
| Jan | 1,343 | 1,350 | -7 | 2,455,050 | 2,467,458 | -12,408 | 108,128 | 47,860 | 60,268 |
| Feb | 1,398 | 1,387 | 11 | 2,545,337 | 2,525,839 | 19,499 | 83,312 | 51,405 | 31,907 |
| Mar | 1,080 | 1,043 | 37 | 1,948,088 | 1,883,212 | 64,876 | 89,424 | 77,150 | 12,274 |
| Apr | 523 | 539 | -17 | 901,123 | 921,664 | -20,541 | 70,337 | 24,898 | 45,439 |
| May | 197 | 214 | -17 | 441,048 | 450,305 | -9,257 | 24,503 | 7,623 | 16,880 |
| Jun | 16 | 25 | -9 | 274,873 | 276,262 | -1,388 | 1,697 | 154 | 1,543 |
| Jul | 0 | 0 | 0 | 251,297 | 251,297 | 0 | 0 | 0 | 0 |
| Aug | 0 | 4 | -4 | 252,327 | 254,636 | -2,309 | 2,309 | 0 | 2,309 |
| Sep | 102 | 133 | -31 | 303,763 | 318,727 | -14,964 | 15,929 | 483 | 15,446 |
| Oct | 346 | 344 | 2 | 590,148 | 588,319 | 1,830 | 32,934 | 17,382 | 15,552 |
| Total | 6,755 | 6,785 | -31 | 13,127,757 | 13,098,918 | 28,839 | 613,343 | 321,091 | 292,252 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

Calculation of Supplier Balancing Charge
2015-16
Estimated Daily Imbalances

| Date | Forecasted MAN HDD | Actual MAN HDD | Forecaster Error MAN HDD | Forecasted Sendout (MMBtu) | Actual Sendout (MMBtu) | Sendout Error (MMBtu) | Abs.Value Sendout Error (MMBtu) | Injections (MMBtu) | Withdrawals (MMBtu) |
|-------------|-----------------------|-------------------|--------------------------------|----------------------------------|------------------------------|-----------------------------|--|-----------------------|------------------------|
| Apr 1, 2014 | 25 | 22 | 3 | 39,478 | 35,743 | 3,735 | 3,735 | 3,735 | 0 |
| Apr 2, 14 | 21 | 24 | -3 | 34,498 | 38,233 | -3,735 | 3,735 | 0 | 3,735 |
| Apr 3, 14 | 25 | 23 | 2 | 39,478 | 36,988 | 2,490 | 2,490 | 2,490 | 0 |
| Apr 4, 14 | 24 | 25 | -1 | 38,233 | 39,478 | -1,245 | 1,245 | 0 | 1,245 |
| Apr 5, 14 | 24 | 24 | 0 | 38,233 | 38,233 | 0 | 0 | 0 | 0 |
| Apr 6, 14 | 21 | 21 | 0 | 34,498 | 34,498 | 0 | 0 | 0 | 0 |
| Apr 7, 14 | 13 | 15 | -2 | 24,539 | 27,029 | -2,490 | 2,490 | 0 | 2,490 |
| Apr 8, 14 | 14 | 16 | -2 | 25,784 | 28,274 | -2,490 | 2,490 | 0 | 2,490 |
| Apr 9, 14 | 22 | 23 | -1 | 35,743 | 36,988 | -1,245 | 1,245 | 0 | 1,245 |
| Apr 10, 14 | 12 | 10 | 2 | 23,294 | 20,804 | 2,490 | 2,490 | 2,490 | 0 |
| Apr 11, 14 | 10 | 10 | 0 | 20,804 | 20,804 | 0 | 0 | 0 | 0 |
| Apr 12, 14 | 9 | 9 | -1 | 18,937 | 19,560 | -622 | 622 | 0 | 622 |
| Apr 13, 14 | 7 | 19 | -12 | 17,070 | 32,009 | -14,939 | 14,939 | 0 | 14,939 |
| Apr 14, 14 | 1 | 0 | 1 | 9,600 | 8,355 | 1,245 | 1,245 | 1,245 | 0 |
| Apr 15, 14 | 15 | 18 | -3 | 27,029 | 30,764 | -3,735 | 3,735 | 0 | 3,735 |
| Apr 16, 14 | 31 | 31 | 0 | 46,947 | 46,947 | 0 | 0 | 0 | 0 |
| Apr 17, 14 | 29 | 30 | -1 | 44,457 | 45,702 | -1,245 | 1,245 | 0 | 1,245 |
| Apr 18, 14 | 23 | 25 | -2 | 36,988 | 39,478 | -2,490 | 2,490 | 0 | 2,490 |
| Apr 19, 14 | 20 | 19 | 1 | 33,253 | 32,009 | 1,245 | 1,245 | 1,245 | 0 |
| Apr 20, 14 | 18 | 19 | -1 | 30,764 | 32,009 | -1,245 | 1,245 | 0 | 1,245 |
| Apr 21, 14 | 9 | 5 | 4 | 19,560 | 14,580 | 4,980 | 4,980 | 4,980 | 0 |
| Apr 22, 14 | 6 | 3 | 3 | 15,825 | 12,090 | 3,735 | 3,735 | 3,735 | 0 |
| Apr 23, 14 | 18 | 18 | 0 | 30,764 | 30,764 | 0 | 0 | 0 | 0 |
| Apr 24, 14 | 18 | 16 | 2 | 30,764 | 28,274 | 2,490 | 2,490 | 2,490 | 0 |
| Apr 25, 14 | 13 | 11 | 2 | 24,539 | 22,049 | 2,490 | 2,490 | 2,490 | 0 |
| Apr 26, 14 | 21 | 23 | -2 | 34,498 | 36,988 | -2,490 | 2,490 | 0 | 2,490 |
| Apr 27, 14 | 19 | 19 | 0 | 32,009 | 32,009 | 0 | 0 | 0 | 0 |
| Apr 28, 14 | 14 | 16 | -2 | 25,784 | 28,274 | -2,490 | 2,490 | 0 | 2,490 |
| Apr 29, 14 | 20 | 23 | -3 | 33,253 | 36,988 | -3,735 | 3,735 | 0 | 3,735 |
| Apr 30, 14 | 21 | 22 | -1 | 34,498 | 35,743 | -1,245 | 1,245 | 0 | 1,245 |
| May 1, 14 | 7 | 10 | -3 | 14,579 | 16,212 | -1,634 | 1,634 | 0 | 1,634 |
| May 2, 14 | 10 | 9 | 1 | 16,212 | 15,668 | 545 | 545 | 545 | 0 |
| May 3, 14 | 8 | 7 | 1 | 15,123 | 14,579 | 545 | 545 | 545 | 0 |
| May 4, 14 | 14 | 12 | 2 | 18,390 | 17,301 | 1,089 | 1,089 | 1,089 | 0 |
| May 5, 14 | 13 | 12 | 1 | 17,846 | 17,301 | 545 | 545 | 545 | 0 |
| May 6, 14 | 13 | 11 | 2 | 17,846 | 16,757 | 1,089 | 1,089 | 1,089 | 0 |
| May 7, 14 | 9 | 9 | 0 | 15,668 | 15,668 | 0 | 0 | 0 | 0 |
| May 8, 14 | 6 | 5 | 1 | 14,034 | 13,490 | 545 | 545 | 545 | 0 |
| May 9, 14 | 8 | 14 | -6 | 15,123 | 18,390 | -3,267 | 3,267 | 0 | 3,267 |
| May 10, 14 | 0 | 0 | 0 | 10,767 | 10,767 | 0 | 0 | 0 | 0 |
| May 11, 14 | 1 | 0 | 1 | 11,312 | 10,767 | 545 | 545 | 545 | 0 |
| May 12, 14 | 0 | 0 | 0 | 10,767 | 10,767 | 0 | 0 | 0 | 0 |
| May 13, 14 | 12 | 15 | -3 | 17,301 | 18,935 | -1,634 | 1,634 | 0 | 1,634 |
| May 14, 14 | 1 | 4 | -3 | 11,312 | 12,945 | -1,634 | 1,634 | 0 | 1,634 |
| May 15, 14 | 0 | 0 | 0 | 10,767 | 10,767 | 0 | 0 | 0 | 0 |
| May 16, 14 | 1 | 0 | 1 | 11,312 | 10,767 | 545 | 545 | 545 | 0 |
| May 17, 14 | 4 | 4 | 0 | 12,945 | 12,945 | 0 | 0 | 0 | 0 |
| May 18, 14 | 7 | 5 | 2 | 14,579 | 13,490 | 1,089 | 1,089 | 1,089 | 0 |
| May 19, 14 | 7 | 7 | 0 | 14,579 | 14,579 | 0 | 0 | 0 | 0 |
| May 20, 14 | 3 | 2 | 1 | 12,401 | 11,856 | 545 | 545 | 545 | 0 |
| May 21, 14 | 3 | 3 | 0 | 12,401 | 12,401 | 0 | 0 | 0 | 0 |
| May 22, 14 | 7 | 9 | -2 | 14,579 | 15,668 | -1,089 | 1,089 | 0 | 1,089 |
| May 23, 14 | 9 | 13 | -4 | 15,668 | 17,846 | -2,178 | 2,178 | 0 | 2,178 |
| May 24, 14 | 7 | 8 | -1 | 14,579 | 15,123 | -545 | 545 | 0 | 545 |
| May 25, 14 | 1 | 2 | -1 | 11,312 | 11,856 | -545 | 545 | 0 | 545 |
| May 26, 14 | 0 | 0 | 0 | 10,767 | 10,767 | 0 | 0 | 0 | 0 |
| May 27, 14 | 10 | 14 | -4 | 16,212 | 18,390 | -2,178 | 2,178 | 0 | 2,178 |
| May 28, 14 | 16 | 19 | -3 | 19,479 | 21,113 | -1,634 | 1,634 | 0 | 1,634 |
| May 29, 14 | 8 | 8 | 0 | 15,123 | 15,123 | 0 | 0 | 0 | 0 |
| May 30, 14 | 4 | 5 | -1 | 12,945 | 13,490 | -545 | 545 | 0 | 545 |
| May 31, 14 | 8 | 7 | 1 | 15,123 | 14,579 | 545 | 545 | 545 | 0 |
| Jun 1, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 2, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 3, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 4, 14 | 3 | 6 | -3 | 9,543 | 10,006 | -463 | 463 | 0 | 463 |
| Jun 5, 14 | 5 | 5 | 0 | 9,851 | 9,851 | 0 | 0 | 0 | 0 |
| Jun 6, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 7, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 8, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 9, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 10, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 11, 14 | 3 | 2 | 1 | 9,543 | 9,389 | 154 | 154 | 154 | 0 |
| Jun 12, 14 | 2 | 2 | 0 | 9,389 | 9,389 | 0 | 0 | 0 | 0 |
| Jun 13, 14 | 1 | 6 | -5 | 9,234 | 10,006 | -771 | 771 | 0 | 771 |
| Jun 14, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 15, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 16, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 17, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 18, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 19, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 20, 14 | 2 | 2 | 0 | 9,389 | 9,389 | 0 | 0 | 0 | 0 |
| Jun 21, 14 | 0 | 2 | -2 | 9,080 | 9,389 | -309 | 309 | 0 | 309 |
| Jun 22, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 23, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 24, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 25, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 26, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 27, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 28, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 29, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jun 30, 14 | 0 | 0 | 0 | 9,080 | 9,080 | 0 | 0 | 0 | 0 |
| Jul 1, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 2, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 3, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 4, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

Calculation of Supplier Balancing Charge
2015-16

Estimated Daily Imbalances

| Date | Forecasted MAN HDD | Actual MAN HDD | Forecaster Error MAN HDD | Forecasted Sendout (MMBtu) | Actual Sendout (MMBtu) | Sendout Error (MMBtu) | Abs.Value Sendout Error (MMBtu) | Injections (MMBtu) | Withdrawals (MMBtu) |
|------------|-----------------------|-------------------|--------------------------------|----------------------------------|------------------------------|-----------------------------|--|-----------------------|------------------------|
| Jul 5, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 6, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 7, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 8, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 9, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 10, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 11, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 12, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 13, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 14, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 15, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 16, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 17, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 18, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 19, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 20, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 21, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 22, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 23, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 24, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 25, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 26, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 27, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 28, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 29, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 30, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Jul 31, 14 | 0 | 0 | 0 | 8,106 | 8,106 | 0 | 0 | 0 | 0 |
| Aug 1, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 2, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 3, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 4, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 5, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 6, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 7, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 8, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 9, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 10, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 11, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 12, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 13, 14 | 0 | 1 | -1 | 8,140 | 8,717 | -577 | 577 | 0 | 577 |
| Aug 14, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 15, 14 | 0 | 1 | -1 | 8,140 | 8,717 | -577 | 577 | 0 | 577 |
| Aug 16, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 17, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 18, 14 | 0 | 1 | -1 | 8,140 | 8,717 | -577 | 577 | 0 | 577 |
| Aug 19, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 20, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 21, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 22, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 23, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 24, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 25, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 26, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 27, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 28, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 29, 14 | 0 | 1 | -1 | 8,140 | 8,717 | -577 | 577 | 0 | 577 |
| Aug 30, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Aug 31, 14 | 0 | 0 | 0 | 8,140 | 8,140 | 0 | 0 | 0 | 0 |
| Sep 1, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 2, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 3, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 4, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 5, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 6, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 7, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 8, 14 | 1 | 3 | -2 | 8,967 | 9,932 | -965 | 965 | 0 | 965 |
| Sep 9, 14 | 3 | 3 | 0 | 9,932 | 9,932 | 0 | 0 | 0 | 0 |
| Sep 10, 14 | 0 | 1 | -1 | 8,484 | 8,967 | -483 | 483 | 0 | 483 |
| Sep 11, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 12, 14 | 5 | 7 | -2 | 10,898 | 11,863 | -965 | 965 | 0 | 965 |
| Sep 13, 14 | 7 | 9 | -2 | 11,863 | 12,829 | -965 | 965 | 0 | 965 |
| Sep 14, 14 | 10 | 12 | -2 | 13,311 | 14,277 | -965 | 965 | 0 | 965 |
| Sep 15, 14 | 8 | 8 | 0 | 12,346 | 12,346 | 0 | 0 | 0 | 0 |
| Sep 16, 14 | 6 | 10 | -4 | 11,380 | 13,311 | -1,931 | 1,931 | 0 | 1,931 |
| Sep 17, 14 | 5 | 8 | -3 | 10,898 | 12,346 | -1,448 | 1,448 | 0 | 1,448 |
| Sep 18, 14 | 7 | 9 | -2 | 11,863 | 12,829 | -965 | 965 | 0 | 965 |
| Sep 19, 14 | 14 | 17 | -3 | 15,242 | 16,690 | -1,448 | 1,448 | 0 | 1,448 |
| Sep 20, 14 | 0 | 2 | -2 | 8,484 | 9,450 | -965 | 965 | 0 | 965 |
| Sep 21, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 22, 14 | 9 | 8 | 1 | 12,829 | 12,346 | 483 | 483 | 483 | 0 |
| Sep 23, 14 | 6 | 7 | -1 | 11,380 | 11,863 | -483 | 483 | 0 | 483 |
| Sep 24, 14 | 7 | 9 | -2 | 11,863 | 12,829 | -965 | 965 | 0 | 965 |
| Sep 25, 14 | 7 | 9 | -2 | 11,863 | 12,829 | -965 | 965 | 0 | 965 |
| Sep 26, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 27, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 28, 14 | 0 | 0 | 0 | 8,484 | 8,484 | 0 | 0 | 0 | 0 |
| Sep 29, 14 | 1 | 4 | -3 | 8,967 | 10,415 | -1,448 | 1,448 | 0 | 1,448 |
| Sep 30, 14 | 6 | 7 | -1 | 11,380 | 11,863 | -483 | 483 | 0 | 483 |
| Oct 1, 14 | 8 | 8 | 0 | 16,145 | 16,145 | 0 | 0 | 0 | 0 |
| Oct 2, 14 | 10 | 12 | -2 | 17,975 | 19,804 | -1,830 | 1,830 | 0 | 1,830 |
| Oct 3, 14 | 8 | 8 | 0 | 16,145 | 16,145 | 0 | 0 | 0 | 0 |
| Oct 4, 14 | 9 | 7 | 2 | 17,060 | 15,230 | 1,830 | 1,830 | 1,830 | 0 |
| Oct 5, 14 | 14 | 16 | -2 | 21,634 | 23,464 | -1,830 | 1,830 | 0 | 1,830 |
| Oct 6, 14 | 8 | 7 | 1 | 16,145 | 15,230 | 915 | 915 | 0 | 0 |
| Oct 7, 14 | 1 | 0 | 1 | 9,741 | 8,826 | 915 | 915 | 915 | 0 |
| Oct 8, 14 | 6 | 6 | 0 | 14,315 | 14,315 | 0 | 0 | 0 | 0 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

Calculation of Supplier Balancing Charge
2015-16
Estimated Daily Imbalances

| Date | Forecasted MAN HDD | Actual MAN HDD | Forecaster Error MAN HDD | Forecasted Sendout (MMBtu) | Actual Sendout (MMBtu) | Sendout Error (MMBtu) | Abs.Value Sendout Error (MMBtu) | Injections (MMBtu) | Withdrawals (MMBtu) |
|------------|-----------------------|-------------------|--------------------------------|----------------------------------|------------------------------|-----------------------------|--|-----------------------|------------------------|
| Oct 9, 14 | 12 | 13 | -1 | 19,804 | 20,719 | -915 | 915 | 0 | 915 |
| Oct 10, 14 | 14 | 15 | -1 | 21,634 | 22,549 | -915 | 915 | 0 | 915 |
| Oct 11, 14 | 17 | 19 | -2 | 24,378 | 26,208 | -1,830 | 1,830 | 0 | 1,830 |
| Oct 12, 14 | 15 | 18 | -3 | 22,549 | 25,293 | -2,744 | 2,744 | 0 | 2,744 |
| Oct 13, 14 | 8 | 6 | 2 | 16,145 | 14,315 | 1,830 | 1,830 | 1,830 | 0 |
| Oct 14, 14 | 0 | 0 | 0 | 8,826 | 8,826 | 0 | 0 | 0 | 0 |
| Oct 15, 14 | 0 | 0 | 0 | 8,826 | 8,826 | 0 | 0 | 0 | 0 |
| Oct 16, 14 | 1 | 0 | 1 | 9,741 | 8,826 | 915 | 915 | 915 | 0 |
| Oct 17, 14 | 3 | 2 | 1 | 11,571 | 10,656 | 915 | 915 | 915 | 0 |
| Oct 18, 14 | 9 | 7 | 2 | 17,060 | 15,230 | 1,830 | 1,830 | 1,830 | 0 |
| Oct 19, 14 | 22 | 22 | 0 | 28,953 | 28,953 | 0 | 0 | 0 | 0 |
| Oct 20, 14 | 16 | 14 | 2 | 23,464 | 21,634 | 1,830 | 1,830 | 1,830 | 0 |
| Oct 21, 14 | 12 | 12 | 0 | 19,804 | 19,804 | 0 | 0 | 0 | 0 |
| Oct 22, 14 | 16 | 16 | 0 | 23,464 | 23,464 | 0 | 0 | 0 | 0 |
| Oct 23, 14 | 16 | 14 | 2 | 23,464 | 21,634 | 1,830 | 1,830 | 1,830 | 0 |
| Oct 24, 14 | 17 | 16 | 1 | 24,378 | 23,464 | 915 | 915 | 915 | 0 |
| Oct 25, 14 | 10 | 9 | 1 | 17,975 | 17,060 | 915 | 915 | 915 | 0 |
| Oct 26, 14 | 16 | 16 | 0 | 23,464 | 23,464 | 0 | 0 | 0 | 0 |
| Oct 27, 14 | 17 | 17 | 0 | 24,378 | 24,378 | 0 | 0 | 0 | 0 |
| Oct 28, 14 | 9 | 11 | -2 | 17,060 | 18,889 | -1,830 | 1,830 | 0 | 1,830 |
| Oct 29, 14 | 13 | 15 | -2 | 20,719 | 22,549 | -1,830 | 1,830 | 0 | 1,830 |
| Oct 30, 14 | 20 | 17 | 3 | 27,123 | 24,378 | 2,744 | 2,744 | 2,744 | 0 |
| Oct 31, 14 | 19 | 21 | -2 | 26,208 | 28,038 | -1,830 | 1,830 | 0 | 1,830 |
| Nov 1, 14 | 26 | 25 | 1 | 45,764 | 44,291 | 1,473 | 1,473 | 1,473 | 0 |
| Nov 2, 14 | 29 | 26 | 3 | 50,185 | 45,764 | 4,420 | 4,420 | 4,420 | 0 |
| Nov 3, 14 | 23 | 24 | -1 | 41,344 | 42,817 | -1,473 | 1,473 | 0 | 1,473 |
| Nov 4, 14 | 14 | 14 | 0 | 28,082 | 28,082 | 0 | 0 | 0 | 0 |
| Nov 5, 14 | 16 | 16 | 0 | 31,029 | 31,029 | 0 | 0 | 0 | 0 |
| Nov 6, 14 | 18 | 20 | -2 | 33,976 | 36,923 | -2,947 | 2,947 | 0 | 2,947 |
| Nov 7, 14 | 26 | 25 | 1 | 45,764 | 44,291 | 1,473 | 1,473 | 1,473 | 0 |
| Nov 8, 14 | 24 | 23 | 1 | 42,817 | 41,344 | 1,473 | 1,473 | 1,473 | 0 |
| Nov 9, 14 | 22 | 25 | -3 | 39,870 | 44,291 | -4,420 | 4,420 | 0 | 4,420 |
| Nov 10, 14 | 20 | 23 | -3 | 36,923 | 41,344 | -4,420 | 4,420 | 0 | 4,420 |
| Nov 11, 14 | 14 | 11 | 3 | 28,082 | 23,662 | 4,420 | 4,420 | 4,420 | 0 |
| Nov 12, 14 | 20 | 18 | 2 | 36,923 | 33,976 | 2,947 | 2,947 | 2,947 | 0 |
| Nov 13, 14 | 25 | 25 | 0 | 44,291 | 44,291 | 0 | 0 | 0 | 0 |
| Nov 14, 14 | 32 | 32 | 0 | 54,605 | 54,605 | 0 | 0 | 0 | 0 |
| Nov 15, 14 | 34 | 35 | -1 | 57,552 | 59,025 | -1,473 | 1,473 | 0 | 1,473 |
| Nov 16, 14 | 29 | 28 | 1 | 50,185 | 48,711 | 1,473 | 1,473 | 1,473 | 0 |
| Nov 17, 14 | 27 | 29 | -2 | 47,238 | 50,185 | -2,947 | 2,947 | 0 | 2,947 |
| Nov 18, 14 | 38 | 38 | 0 | 63,446 | 63,446 | 0 | 0 | 0 | 0 |
| Nov 19, 14 | 36 | 35 | 1 | 60,499 | 59,025 | 1,473 | 1,473 | 1,473 | 0 |
| Nov 20, 14 | 35 | 32 | 3 | 59,025 | 54,605 | 4,420 | 4,420 | 4,420 | 0 |
| Nov 21, 14 | 38 | 39 | -1 | 63,446 | 64,919 | -1,473 | 1,473 | 0 | 1,473 |
| Nov 22, 14 | 28 | 26 | 2 | 48,711 | 45,764 | 2,947 | 2,947 | 2,947 | 0 |
| Nov 23, 14 | 21 | 15 | 6 | 38,397 | 29,556 | 8,841 | 8,841 | 8,841 | 0 |
| Nov 24, 14 | 7 | 3 | 4 | 17,768 | 11,874 | 5,894 | 5,894 | 5,894 | 0 |
| Nov 25, 14 | 18 | 18 | 0 | 33,976 | 33,976 | 0 | 0 | 0 | 0 |
| Nov 26, 14 | 30 | 33 | -3 | 51,658 | 56,078 | -4,420 | 4,420 | 0 | 4,420 |
| Nov 27, 14 | 35 | 36 | -1 | 59,025 | 60,499 | -1,473 | 1,473 | 0 | 1,473 |
| Nov 28, 14 | 43 | 42 | 1 | 70,813 | 69,340 | 1,473 | 1,473 | 1,473 | 0 |
| Nov 29, 14 | 37 | 37 | 0 | 61,972 | 61,972 | 0 | 0 | 0 | 0 |
| Nov 30, 14 | 22 | 22 | 0 | 39,870 | 39,870 | 0 | 0 | 0 | 0 |
| Dec 1, 14 | 28 | 25 | 3 | 52,034 | 46,717 | 5,318 | 5,318 | 5,318 | 0 |
| Dec 2, 14 | 30 | 34 | -4 | 55,580 | 62,670 | -7,090 | 7,090 | 0 | 7,090 |
| Dec 3, 14 | 26 | 29 | -3 | 48,489 | 53,807 | -5,318 | 5,318 | 0 | 5,318 |
| Dec 4, 14 | 36 | 37 | -1 | 66,215 | 67,988 | -1,773 | 1,773 | 0 | 1,773 |
| Dec 5, 14 | 30 | 34 | -4 | 55,580 | 62,670 | -7,090 | 7,090 | 0 | 7,090 |
| Dec 6, 14 | 30 | 31 | -1 | 55,580 | 57,352 | -1,773 | 1,773 | 0 | 1,773 |
| Dec 7, 14 | 44 | 44 | 0 | 80,396 | 80,396 | 0 | 0 | 0 | 0 |
| Dec 8, 14 | 37 | 40 | -3 | 67,988 | 73,306 | -5,318 | 5,318 | 0 | 5,318 |
| Dec 9, 14 | 28 | 27 | 1 | 52,034 | 50,262 | 1,773 | 1,773 | 1,773 | 0 |
| Dec 10, 14 | 29 | 28 | 1 | 53,807 | 52,034 | 1,773 | 1,773 | 1,773 | 0 |
| Dec 11, 14 | 33 | 33 | 0 | 60,897 | 60,897 | 0 | 0 | 0 | 0 |
| Dec 12, 14 | 34 | 31 | 3 | 62,670 | 57,352 | 5,318 | 5,318 | 5,318 | 0 |
| Dec 13, 14 | 33 | 30 | 3 | 60,897 | 55,580 | 5,318 | 5,318 | 5,318 | 0 |
| Dec 14, 14 | 32 | 30 | 2 | 59,125 | 55,580 | 3,545 | 3,545 | 3,545 | 0 |
| Dec 15, 14 | 33 | 31 | 2 | 60,897 | 57,352 | 3,545 | 3,545 | 3,545 | 0 |
| Dec 16, 14 | 26 | 29 | -3 | 48,489 | 53,807 | -5,318 | 5,318 | 0 | 5,318 |
| Dec 17, 14 | 26 | 24 | 2 | 48,489 | 44,944 | 3,545 | 3,545 | 3,545 | 0 |
| Dec 18, 14 | 31 | 29 | 2 | 57,352 | 53,807 | 3,545 | 3,545 | 3,545 | 0 |
| Dec 19, 14 | 36 | 37 | -1 | 66,215 | 67,988 | -1,773 | 1,773 | 0 | 1,773 |
| Dec 20, 14 | 35 | 34 | 1 | 64,443 | 62,670 | 1,773 | 1,773 | 1,773 | 0 |
| Dec 21, 14 | 35 | 33 | 2 | 64,443 | 60,897 | 3,545 | 3,545 | 3,545 | 0 |
| Dec 22, 14 | 29 | 28 | 1 | 53,807 | 52,034 | 1,773 | 1,773 | 1,773 | 0 |
| Dec 23, 14 | 23 | 26 | -3 | 43,172 | 48,489 | -5,318 | 5,318 | 0 | 5,318 |
| Dec 24, 14 | 16 | 25 | -9 | 30,763 | 46,717 | -15,953 | 15,953 | 0 | 15,953 |
| Dec 25, 14 | 23 | 21 | 2 | 43,172 | 39,626 | 3,545 | 3,545 | 3,545 | 0 |
| Dec 26, 14 | 27 | 27 | 0 | 50,262 | 50,262 | 0 | 0 | 0 | 0 |
| Dec 27, 14 | 23 | 21 | 2 | 43,172 | 39,626 | 3,545 | 3,545 | 3,545 | 0 |
| Dec 28, 14 | 27 | 25 | 2 | 50,262 | 46,717 | 3,545 | 3,545 | 3,545 | 0 |
| Dec 29, 14 | 36 | 37 | -1 | 66,215 | 67,988 | -1,773 | 1,773 | 0 | 1,773 |
| Dec 30, 14 | 44 | 46 | -2 | 80,396 | 83,941 | -3,545 | 3,545 | 0 | 3,545 |
| Dec 31, 14 | 43 | 45 | -2 | 78,623 | 82,169 | -3,545 | 3,545 | 0 | 3,545 |
| Jan 1, 15 | 38 | 37 | 1 | 69,760 | 67,988 | 1,773 | 1,773 | 1,773 | 0 |
| Jan 2, 15 | 40 | 38 | 2 | 73,306 | 69,760 | 3,545 | 3,545 | 3,545 | 0 |
| Jan 3, 15 | 35 | 37 | -2 | 64,443 | 67,988 | -3,545 | 3,545 | 0 | 3,545 |
| Jan 4, 15 | 26 | 30 | -4 | 48,489 | 55,580 | -7,090 | 7,090 | 0 | 7,090 |
| Jan 5, 15 | 47 | 48 | -1 | 85,714 | 87,486 | -1,773 | 1,773 | 0 | 1,773 |
| Jan 6, 15 | 49 | 53 | -4 | 89,259 | 96,349 | -7,090 | 7,090 | 0 | 7,090 |
| Jan 7, 15 | 58 | 59 | -1 | 105,212 | 106,985 | -1,773 | 1,773 | 0 | 1,773 |
| Jan 8, 15 | 49 | 49 | 0 | 89,259 | 89,259 | 0 | 0 | 0 | 0 |
| Jan 9, 15 | 46 | 45 | 1 | 83,941 | 82,169 | 1,773 | 1,773 | 1,773 | 0 |
| Jan 10, 15 | 50 | 53 | -3 | 91,032 | 96,349 | -5,318 | 5,318 | 0 | 5,318 |
| Jan 11, 15 | 41 | 39 | 2 | 75,078 | 71,533 | 3,545 | 3,545 | 3,545 | 0 |
| Jan 12, 15 | 38 | 37 | 1 | 69,760 | 67,988 | 1,773 | 1,773 | 1,773 | 0 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

Calculation of Supplier Balancing Charge
2015-16

Estimated Daily Imbalances

| Date | Forecasted MAN HDD | Actual MAN HDD | Forecaster Error MAN HDD | Forecasted Sendout (MMBtu) | Actual Sendout (MMBtu) | Sendout Error (MMBtu) | Abs.Value Sendout Error (MMBtu) | Injections (MMBtu) | Withdrawals (MMBtu) |
|------------|-----------------------|-------------------|--------------------------------|----------------------------------|------------------------------|-----------------------------|--|-----------------------|------------------------|
| Jan 13, 15 | 54 | 55 | -1 | 98,122 | 99,894 | -1,773 | 1,773 | 0 | 1,773 |
| Jan 14, 15 | 47 | 45 | 2 | 85,714 | 82,169 | 3,545 | 3,545 | 3,545 | 0 |
| Jan 15, 15 | 42 | 41 | 1 | 76,851 | 75,078 | 1,773 | 1,773 | 1,773 | 0 |
| Jan 16, 15 | 50 | 49 | 1 | 91,032 | 89,259 | 1,773 | 1,773 | 1,773 | 0 |
| Jan 17, 15 | 46 | 45 | 1 | 83,941 | 82,169 | 1,773 | 1,773 | 1,773 | 0 |
| Jan 18, 15 | 27 | 29 | -2 | 50,262 | 53,807 | -3,545 | 3,545 | 0 | 3,545 |
| Jan 19, 15 | 34 | 31 | 3 | 62,670 | 57,352 | 5,318 | 5,318 | 5,318 | 0 |
| Jan 20, 15 | 42 | 39 | 3 | 76,851 | 71,533 | 5,318 | 5,318 | 5,318 | 0 |
| Jan 21, 15 | 39 | 39 | 0 | 71,533 | 71,533 | 0 | 0 | 0 | 0 |
| Jan 22, 15 | 38 | 45 | -7 | 69,760 | 82,169 | -12,408 | 12,408 | 0 | 12,408 |
| Jan 23, 15 | 44 | 36 | 8 | 80,396 | 66,215 | 14,181 | 14,181 | 14,181 | 0 |
| Jan 24, 15 | 35 | 34 | 1 | 64,443 | 62,670 | 1,773 | 1,773 | 1,773 | 0 |
| Jan 25, 15 | 47 | 47 | 0 | 85,714 | 85,714 | 0 | 0 | 0 | 0 |
| Jan 26, 15 | 46 | 48 | -2 | 83,941 | 87,486 | -3,545 | 3,545 | 0 | 3,545 |
| Jan 27, 15 | 50 | 51 | -1 | 91,032 | 92,804 | -1,773 | 1,773 | 0 | 1,773 |
| Jan 28, 15 | 51 | 52 | -1 | 92,804 | 94,577 | -1,773 | 1,773 | 0 | 1,773 |
| Jan 29, 15 | 38 | 38 | 0 | 69,760 | 69,760 | 0 | 0 | 0 | 0 |
| Jan 30, 15 | 43 | 46 | -3 | 78,623 | 83,941 | -5,318 | 5,318 | 0 | 5,318 |
| Jan 31, 15 | 53 | 55 | -2 | 96,349 | 99,894 | -3,545 | 3,545 | 0 | 3,545 |
| Feb 1, 15 | 51 | 50 | 1 | 92,804 | 91,032 | 1,773 | 1,773 | 1,773 | 0 |
| Feb 2, 15 | 55 | 57 | -2 | 99,894 | 103,440 | -3,545 | 3,545 | 0 | 3,545 |
| Feb 3, 15 | 51 | 54 | -3 | 92,804 | 98,122 | -5,318 | 5,318 | 0 | 5,318 |
| Feb 4, 15 | 37 | 34 | 3 | 67,988 | 62,670 | 5,318 | 5,318 | 5,318 | 0 |
| Feb 5, 15 | 55 | 55 | 0 | 99,894 | 99,894 | 0 | 0 | 0 | 0 |
| Feb 6, 15 | 50 | 48 | 2 | 91,032 | 87,486 | 3,545 | 3,545 | 3,545 | 0 |
| Feb 7, 15 | 42 | 41 | 1 | 76,851 | 75,078 | 1,773 | 1,773 | 1,773 | 0 |
| Feb 8, 15 | 49 | 53 | -4 | 89,259 | 96,349 | -7,090 | 7,090 | 0 | 7,090 |
| Feb 9, 15 | 50 | 49 | 1 | 91,032 | 89,259 | 1,773 | 1,773 | 1,773 | 0 |
| Feb 10, 15 | 45 | 45 | 0 | 82,169 | 82,169 | 0 | 0 | 0 | 0 |
| Feb 11, 15 | 51 | 50 | 1 | 92,804 | 91,032 | 1,773 | 1,773 | 1,773 | 0 |
| Feb 12, 15 | 48 | 51 | -3 | 87,486 | 92,804 | -5,318 | 5,318 | 0 | 5,318 |
| Feb 13, 15 | 62 | 59 | 3 | 112,303 | 106,985 | 5,318 | 5,318 | 5,318 | 0 |
| Feb 14, 15 | 46 | 49 | -3 | 83,941 | 89,259 | -5,318 | 5,318 | 0 | 5,318 |
| Feb 15, 15 | 61 | 62 | -1 | 110,530 | 112,303 | -1,773 | 1,773 | 0 | 1,773 |
| Feb 16, 15 | 57 | 55 | 2 | 103,440 | 99,894 | 3,545 | 3,545 | 3,545 | 0 |
| Feb 17, 15 | 52 | 49 | 3 | 94,577 | 89,259 | 5,318 | 5,318 | 5,318 | 0 |
| Feb 18, 15 | 43 | 42 | 1 | 78,623 | 76,851 | 1,773 | 1,773 | 1,773 | 0 |
| Feb 19, 15 | 53 | 52 | 1 | 96,349 | 94,577 | 1,773 | 1,773 | 1,773 | 0 |
| Feb 20, 15 | 58 | 57 | 1 | 105,212 | 103,440 | 1,773 | 1,773 | 1,773 | 0 |
| Feb 21, 15 | 38 | 38 | 0 | 69,760 | 69,760 | 0 | 0 | 0 | 0 |
| Feb 22, 15 | 38 | 35 | 3 | 69,760 | 64,443 | 5,318 | 5,318 | 5,318 | 0 |
| Feb 23, 15 | 61 | 60 | 1 | 110,530 | 108,757 | 1,773 | 1,773 | 1,773 | 0 |
| Feb 24, 15 | 50 | 51 | -1 | 91,032 | 92,804 | -1,773 | 1,773 | 0 | 1,773 |
| Feb 25, 15 | 46 | 43 | 3 | 83,941 | 78,623 | 5,318 | 5,318 | 5,318 | 0 |
| Feb 26, 15 | 50 | 48 | 2 | 91,032 | 87,486 | 3,545 | 3,545 | 3,545 | 0 |
| Feb 27, 15 | 51 | 51 | 0 | 92,804 | 92,804 | 0 | 0 | 0 | 0 |
| Feb 28, 15 | 48 | 49 | -1 | 87,486 | 89,259 | -1,773 | 1,773 | 0 | 1,773 |
| Mar 1, 15 | 39 | 41 | -2 | 70,138 | 73,645 | -3,507 | 3,507 | 0 | 3,507 |
| Mar 2, 15 | 42 | 40 | 2 | 75,398 | 71,891 | 3,507 | 3,507 | 3,507 | 0 |
| Mar 3, 15 | 34 | 35 | -1 | 61,371 | 63,124 | -1,753 | 1,753 | 0 | 1,753 |
| Mar 4, 15 | 33 | 28 | 5 | 59,618 | 50,851 | 8,767 | 8,767 | 8,767 | 0 |
| Mar 5, 15 | 48 | 50 | -2 | 85,919 | 89,425 | -3,507 | 3,507 | 0 | 3,507 |
| Mar 6, 15 | 47 | 45 | 2 | 84,165 | 80,658 | 3,507 | 3,507 | 3,507 | 0 |
| Mar 7, 15 | 39 | 37 | 2 | 70,138 | 66,631 | 3,507 | 3,507 | 3,507 | 0 |
| Mar 8, 15 | 36 | 34 | 2 | 64,878 | 61,371 | 3,507 | 3,507 | 3,507 | 0 |
| Mar 9, 15 | 31 | 28 | 3 | 56,111 | 50,851 | 5,260 | 5,260 | 5,260 | 0 |
| Mar 10, 15 | 24 | 21 | 3 | 43,837 | 38,577 | 5,260 | 5,260 | 5,260 | 0 |
| Mar 11, 15 | 26 | 21 | 5 | 47,344 | 38,577 | 8,767 | 8,767 | 8,767 | 0 |
| Mar 12, 15 | 40 | 39 | 1 | 71,891 | 70,138 | 1,753 | 1,753 | 1,753 | 0 |
| Mar 13, 15 | 34 | 30 | 4 | 61,371 | 54,357 | 7,014 | 7,014 | 7,014 | 0 |
| Mar 14, 15 | 30 | 31 | -1 | 54,357 | 56,111 | -1,753 | 1,753 | 0 | 1,753 |
| Mar 15, 15 | 34 | 35 | -1 | 61,371 | 63,124 | -1,753 | 1,753 | 0 | 1,753 |
| Mar 16, 15 | 29 | 29 | 0 | 52,604 | 52,604 | 0 | 0 | 0 | 0 |
| Mar 17, 15 | 35 | 35 | 0 | 63,124 | 63,124 | 0 | 0 | 0 | 0 |
| Mar 18, 15 | 45 | 44 | 1 | 80,658 | 78,905 | 1,753 | 1,753 | 1,753 | 0 |
| Mar 19, 15 | 42 | 41 | 1 | 75,398 | 73,645 | 1,753 | 1,753 | 1,753 | 0 |
| Mar 20, 15 | 37 | 37 | 0 | 66,631 | 66,631 | 0 | 0 | 0 | 0 |
| Mar 21, 15 | 32 | 31 | 1 | 57,864 | 56,111 | 1,753 | 1,753 | 1,753 | 0 |
| Mar 22, 15 | 46 | 45 | 1 | 82,412 | 80,658 | 1,753 | 1,753 | 1,753 | 0 |
| Mar 23, 15 | 44 | 42 | 2 | 78,905 | 75,398 | 3,507 | 3,507 | 3,507 | 0 |
| Mar 24, 15 | 36 | 34 | 2 | 64,878 | 61,371 | 3,507 | 3,507 | 3,507 | 0 |
| Mar 25, 15 | 24 | 23 | 1 | 43,837 | 42,084 | 1,753 | 1,753 | 1,753 | 0 |
| Mar 26, 15 | 22 | 22 | 0 | 40,330 | 40,330 | 0 | 0 | 0 | 0 |
| Mar 27, 15 | 27 | 26 | 1 | 49,097 | 47,344 | 1,753 | 1,753 | 1,753 | 0 |
| Mar 28, 15 | 37 | 36 | 1 | 66,631 | 64,878 | 1,753 | 1,753 | 1,753 | 0 |
| Mar 29, 15 | 31 | 30 | 1 | 56,111 | 54,357 | 1,753 | 1,753 | 1,753 | 0 |
| Mar 30, 15 | 27 | 27 | 0 | 49,097 | 49,097 | 0 | 0 | 0 | 0 |
| Mar 31, 15 | 29 | 26 | 3 | 52,604 | 47,344 | 5,260 | 5,260 | 5,260 | 0 |
| Apr 1, 15 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Apr | 523 | 539 | -17 | 901,123 | 921,664 | -20,541 | 20,541 | 24,898 | 45,439 |
| May | 197 | 214 | -17 | 441,048 | 450,305 | -9,257 | 9,257 | 7,623 | 16,880 |
| Jun | 16 | 25 | -9 | 274,873 | 276,262 | -1,388 | 1,388 | 154 | 1,543 |
| Jul | 0 | 0 | 0 | 251,297 | 251,297 | 0 | 0 | 0 | 0 |
| Aug | 0 | 4 | -4 | 252,327 | 254,636 | -2,309 | 2,309 | 0 | 2,309 |
| Sep | 102 | 133 | -31 | 303,763 | 318,727 | -14,964 | 14,964 | 483 | 15,446 |
| Oct | 346 | 344 | 2 | 590,148 | 588,319 | 1,830 | 1,830 | 17,382 | 15,552 |
| Nov | 787 | 775 | 12 | 1,383,237 | 1,365,555 | 17,682 | 17,682 | 42,731 | 25,049 |
| Dec | 963 | 971 | -8 | 1,781,465 | 1,795,646 | -14,181 | 14,181 | 51,405 | 65,586 |
| Jan | 1,343 | 1,350 | -7 | 2,455,050 | 2,467,458 | -12,408 | 12,408 | 47,860 | 60,268 |
| Feb | 1,398 | 1,387 | 11 | 2,545,337 | 2,525,839 | 19,499 | 19,499 | 51,405 | 31,907 |
| Mar | 1,080 | 1,043 | 37 | 1,948,088 | 1,883,212 | 64,876 | 64,876 | 77,150 | 12,274 |
| Total | 6,755 | 6,785 | -31 | 13,127,757 | 13,098,918 | 28,839 | 28,839 | 321,091 | 292,252 |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

**Docket DE 98-124 Gas Restructuring
Peaking Demand Rate**

Source:

| | | | | |
|----|--|--------------------|-----------|--|
| 1 | Peak Day | 151,828 | Dekatherm | |
| 2 | | | | |
| 3 | Pipeline MDQ | | | Attachment B Page 2 of 3: EnergyNorth Capacity Resources |
| 4 | PNGTS | 1,000 | Dekatherm | |
| 5 | TGP NET-NE 95346 | 4,000 | | |
| 6 | TGP FT-A (Z5-Z6) 2302 | 3,122 | | |
| 7 | TGP FT-A (Z0-Z6) 8587 | 7,035 | | |
| 8 | TGP FT-A (Z1-Z6) 8587 | 14,561 | | |
| 9 | TGP FT-A (Z6-Z6) 42076 | 20,000 | | |
| | TGP FT-A (Z6-Z6) 72694 | 30,000 | | |
| 10 | | 78,718 | Dekatherm | |
| 11 | | | | |
| 12 | Underground Storage MDQ | | | Attachment B Page 3 of 3: EnergyNorth Capacity Resources |
| 13 | TGP FT-A (Z4-Z6) 632 | 15,265 | Dekatherm | |
| 14 | TGP FT-A (Z4-Z6) 8587 | 3,811 | | |
| 15 | TGP FT-A (Z4-Z6) 11234 | 7,082 | | |
| 16 | TGP FT-A (Z5-Z6) 11234 | 1,957 | | |
| 17 | | 28,115 | | |
| 18 | | | | |
| 19 | | | | |
| 20 | Peaking MDQ | 44,995 | Dekatherm | Line 1 - Line 10 - Line 18 |
| 21 | | | | |
| 22 | | | | |
| 23 | Peaking Costs | | | |
| 23 | | | | |
| 23 | Gas Supply | \$1,500,000 | | Attachment B Page 3 Line 11 |
| 25 | Indirect Production & Storage Capacity | \$1,980,428 | | Summary Page Line 68 |
| 26 | Granite Ridge | \$0 | | Attachment B Page 3 Line 1 |
| 27 | Total | \$3,480,428 | | Sum Line 24 - 26 |
| 28 | | | | |
| 29 | Annual Peaking Rate per MDQ | \$77.35 | | Line 27 divided by Line 20 |
| 30 | | | | |
| 31 | Monthly Peaking MDQ | \$12.89 /Dekatherm | | Line 29 divided by 6 month |

Liberty Utilities (EnergyNorth Natural Gas) Corp.

Schedule 21
2015 - 2016 Winter Cost of Gas Filing
Back Up Calculations to
III Delivery Terms and Conditions
Proposed First Revised Page 143
Attachment B - Peaking Demand Charge

Tennessee Allocations:

| Resource Type | High Load Factor | Low Load Factor |
|---------------|------------------|-----------------|
| Pipeline | 76.6% | 47.7% |
| Storage | 9.0% | 20.1% |
| Peaking | 14.4% | 32.2% |
| TOTAL: | 100.00% | 100.00% |

Capacity Resources effective November 1, 2015:

| Resource | Pipeline Company | Rate Schedule | Contract # | Peak MDQ/ MDWQ | Storage MSQ | Rate \$/Dth/Month Demand | Storage Capacity | Termination Date | LDC Managed |
|-----------------|------------------|----------------------|----------------|----------------|-------------|--------------------------|------------------|------------------|-------------|
| Pipeline | | | | | | | | | |
| | TCPL + Union | FT to Parkway & IGTS | M12200 & 41232 | 4,000 | | \$16.3894 | | 10/31/2022 | |
| | Iroquois | RTS to Wright | 470-01 | 4,047 | | \$6.5971 | | 11/1/2017 | |
| | TGP | NET-NE (Z5-Z6) | 95346 | 4,000 | | \$7.3963 | | 11/30/2016 | |
| | | | | | | | | | |
| | TGP | FT-A (Z5-Z6) | 2302 | 3,122 | | \$7.3963 | | 10/31/2020 | |
| | | | | | | | | | |
| | TGP | FT-A (Z0-Z6) | 8587 | 7,035 | | \$23.9536 | | 10/31/2020 | |
| | TGP | FT-A (Z1-Z6) | 8587 | 14,561 | | \$21.2648 | | 10/31/2020 | |
| | | | | | | | | | |
| | TGP | FT-A (Z6-Z6) | 42076 | 20,000 | | \$4.9101 | | 10/31/2020 | |
| | TGP | FT-A (Z6-Z6) | 72694 | 30,000 | | \$12.2103 | | 10/31/2029 | |
| Storage | | | | | | | | | |
| | TGP | FS-MA (Storage) | 523* | 21,844 | 1,560,391 | \$1.5400 | \$0.0211 | 10/31/2020 | |
| | TGP | FT-A (Z4-Z6) | 632 | 15,265 | | \$8.4181 | | 10/31/2020 | |
| | TGP | FT-A (Z4-Z6) | 8587 | 3,811 | | \$8.4181 | | 10/31/2020 | |
| | | | | | | | | | |
| | National Fuel | FSS-1 (Storage) | 002357* | 6,098 | 670,800 | \$2.4826 | \$0.0381 | 3/31/2017 | |
| | National Fuel | FST (Transport) | N02358 | 6,098 | | \$3.7805 | | 3/31/2017 | |
| | TGP | FT-A (Z4-Z6) | 11234 | 6,150 | | \$8.4181 | | 10/31/2020 | |
| | | | | | | | | | |
| | Honeoye | SS-NY (Storage) | SS-NY** | 1,957 | 245,380 | \$4.4683 | \$0.0000 | 4/1/2020 | X |
| | TGP | FT-A (Z5-Z6) | 11234 | 1,957 | | \$7.3963 | | 10/31/2020 | |
| | | | | | | | | | |
| | Dominion | GSS (Storage) | 300076* | 934 | 102,700 | \$1.8625 | \$0.0145 | 3/31/2021 | |
| | TGP | FT-A (Z4-Z6) | 11234 | 932 | | \$8.4181 | | 10/31/2020 | |
| Peaking | | | | | | | | | |
| | Energy North | LNG/Propane**** | | 44,995 | - | \$12.8900 | \$0.0000 | | X |

* All gas transferred for storage contracts will be based on LDC's monthly WACOG

**All commodity volumes nominated will be invoiced at LDC's WACOG + fuel retention Demand charge applicable for 6 months

Note: All capacity will be released at maximum tariff rates. Above rates are maximum tariff rates effective 11/01/15. Because rates can change, please refer to the applicable pipeline tariff for current rates.

Above capacity is for all customers in the EnergyNorth Service territory with the exception of Berlin, NH. Any customers behind the Berlin citygate will be allocated 100% PNGTS capacity at a demand rate of \$25.9843/dth.

REDACTED

Schedule 21

2015 - 2016 Winter Cost of Gas Filing

Back Up Calculations to

III Delivery Terms and Conditions

Proposed First Revised Page 143

Attachment B - Peaking Demand Charge

ENERGYNORTH NATURAL GAS, INC.

**Docket 98-124 Gas Restructuring
Peaking Demand Rate
Peaking Costs**

| | Volume | Rate | Monthly Cost | Months/Year | Annual Cost |
|-------------------|------------|------|--------------|-------------|---------------|
| 1 | [REDACTED] | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 Concord Lateral | [REDACTED] | | | | |
| 5 GDF Suez | | | | | |
| 6 | | | | | |
| 7 Subtotal | | | | | \$1,500,000 * |
| 8 | | | | | |
| 9 Total | | | | | \$1,500,000 |
| 10 | | | | | |

* Contract currently being negotiated for an effective date of November 1, 2015

THIS PAGE HAS BEEN REDACTED

Schedule 22

III DELIVERY TERMS AND CONDITIONS

NHPUC NO. 8 - GAS
EnergyNorth Natural Gas, Inc

Proposed First Revised Page 144
Superseding Original Page 144

ATTACHMENT C

CAPACITY ALLOCATORS

| Rate Class | | Pipeline | Storage | Peaking | Total |
|-------------------|------------------------------------|-----------------|----------------|----------------|--------------|
| G-41 | Low Annual /High Winter Use | 47.7% | 20.1% | 32.2% | 100.0% |
| G-51 | Low Annual /Low Winter Use | 76.6% | 9.0% | 14.4% | 100.0% |
| G-42 | Medium Annual / High Winter | 47.7% | 20.1% | 32.2% | 100.0% |
| G-52 | High Annual / Low Winter Use | 76.6% | 9.0% | 14.4% | 100.0% |
| G-43 | High Annual / High Winter | 47.7% | 20.1% | 32.2% | 100.0% |
| G-53 | High Annual / Load Factor < 90% | 76.6% | 9.0% | 14.4% | 100.0% |
| G-54 | High Annual / Load Factor < 90% | 76.6% | 9.0% | 14.4% | 100.0% |

**Calculation of Capacity Allocators
Docket No DE 98-124**

Capacity Assignment Table

| | | | Pipeline | % of Peak Day Requirement | | Total |
|------|---------|-----------------------------------|----------|---------------------------|---------|--------|
| | | | | Storage | Peaking | |
| G-41 | LAHW | Low Annual C&I - High Winter Use | 47.7% | 20.1% | 32.2% | 100.0% |
| G-51 | LALW | Low Annual C&I - Low Winter Use | 76.6% | 9.0% | 14.4% | 100.0% |
| G-42 | MAHW | Medium C&I - High Winter Use | 47.7% | 20.1% | 32.2% | 100.0% |
| G-52 | MALW | Medium C&I - Low Winter Use | 76.6% | 9.0% | 14.4% | 100.0% |
| G-43 | HAHW | High Annual C&I - High Winter Use | 47.7% | 20.1% | 32.2% | 100.0% |
| G-53 | HALW90 | High Annual C&I - LF < 90% | 76.6% | 9.0% | 14.4% | 100.0% |
| G-54 | HALWG90 | High Annual C&I - LF > 90% | 76.6% | 9.0% | 14.4% | 100.0% |

| | | | | | |
|-----|------------------|--------|--------|--------|------|
| HLF | High Load Factor | 76.57% | 9.01% | 14.42% | 100% |
| LLF | Low Load Factor | 47.70% | 20.11% | 32.19% | 100% |
| | Total | 51.85% | 18.52% | 29.64% | 100% |

**Calculation of Capacity Allocators
Docket No DE 98-124**

Allocation of Peak Day

Design Day Throughput Allocated to Rate Classes

Allocate Class Design Day Throughput to Supply Sources

% of Peak Day Requirement

| Design DD | | 71.5182 | | | Base | Remaining | Sub-total | | | | | | | | | |
|-----------|------------|-----------|-----------|---------|------------|-----------|-----------|---------|---------|--------|----------|------------|---------|-------|-------|--------|
| | | Base load | Heat load | Total | Pipeline | Pipeline | Pipeline | Storage | Peaking | Total | Pipeline | Storage | Peaking | Total | | |
| HLF | R-1 RNSH | 124 | 374 | 499 | R-1 RNSH | 124 | 165 | 289 | 81 | 129 | 499 | R-1 RNSH | 57.9% | 16.2% | 25.9% | 100.0% |
| LLF | R-3 RSH | 3,749 | 59,953 | 63,703 | R-3 RSH | 3,749 | 26,354 | 30,103 | 12,921 | 20,679 | 63,703 | R-3 RSH | 47.3% | 20.3% | 32.5% | 100.0% |
| LLF | G-41 SL | 1,078 | 24,450 | 25,529 | G-41 SL | 1,078 | 10,748 | 11,826 | 5,269 | 8,433 | 25,529 | G-41 SL | 46.3% | 20.6% | 33.0% | 100.0% |
| HLF | G-51 SH | 644 | 2,581 | 3,224 | G-51 SH | 644 | 1,134 | 1,778 | 556 | 890 | 3,224 | G-51 SH | 55.1% | 17.2% | 27.6% | 100.0% |
| LLF | G-42 ML | 1,969 | 32,295 | 34,264 | G-42 ML | 1,969 | 14,196 | 16,165 | 6,960 | 11,139 | 34,264 | G-42 ML | 47.2% | 20.3% | 32.5% | 100.0% |
| HLF | G-52 MH | 1,461 | 3,051 | 4,512 | G-52 MH | 1,461 | 1,341 | 2,802 | 658 | 1,052 | 4,512 | G-52 MH | 62.1% | 14.6% | 23.3% | 100.0% |
| LLF | G-43 LL | 1,891 | 4,641 | 6,532 | G-43 LL | 1,891 | 2,040 | 3,931 | 1,000 | 1,601 | 6,532 | G-43 LL | 60.2% | 15.3% | 24.5% | 100.0% |
| HLF | G-53 LLL90 | 2,940 | 3,107 | 6,047 | G-53 LLL90 | 2,940 | 1,366 | 4,306 | 670 | 1,072 | 6,047 | G-53 LLL90 | 71.2% | 11.1% | 17.7% | 100.0% |
| HLF | G-54 LLG90 | 7,519 | - | 7,519 | G-54 LLG90 | 7,519 | - | 7,519 | - | - | 7,519 | G-54 LLG90 | 100.0% | 0.0% | 0.0% | 100.0% |
| | TOTAL | 21,375 | 130,453 | 151,828 | TOTAL | 21,375 | 57,343 | 78,718 | 28,115 | 44,995 | 151,828 | TOTAL | 51.8% | 18.5% | 29.6% | 100.0% |

| | | | |
|-------|--------|---------|---------|
| HLF | 12,688 | 9,113 | 21,801 |
| LLF | 8,687 | 121,340 | 130,027 |
| Total | 21,375 | 130,453 | 151,828 |

| | | | | | | |
|-------|--------|--------|--------|--------|--------|---------|
| HLF | 12,688 | 4,006 | 16,693 | 1,964 | 3,143 | 21,801 |
| LLF | 8,687 | 53,337 | 62,025 | 26,151 | 41,852 | 130,027 |
| Total | 21,375 | 57,343 | 78,718 | 28,115 | 44,995 | 151,828 |

| | | | | |
|------------------|--------|--------|--------|------|
| High Load Factor | 76.57% | 9.01% | 14.42% | 100% |
| Low Load Factor | 47.70% | 20.11% | 32.19% | 100% |
| Total | 51.85% | 18.52% | 29.64% | 100% |

Calculation of Capacity Allocators
Docket No DE 98-124

Allocate Design Day Sendout

Calculate Design Day Throughput (BBTU)

Design DD

71.5182

| | Daily Baseload * 1000 | March Heating Factor * 1000 | Heat load (Heating Factor * Design DD) | Total |
|--------------|--------------------------|-----------------------------------|--|----------------|
| R-1 RNSH | 124 | 4.482 | 321 | 445 |
| R-3 RSH | 3,749 | 717.573 | 51,320 | 55,069 |
| G-41 SL | 1,078 | 292.642 | 20,929 | 22,007 |
| G-51 SH | 644 | 30.886 | 2,209 | 2,853 |
| G-42 ML | 1,969 | 386.535 | 27,644 | 29,613 |
| G-52 MH | 1,461 | 36.515 | 2,612 | 4,073 |
| G-43 LL | 1,891 | 55.549 | 3,973 | 5,864 |
| G-53 LLL90 | 2,940 | 37.191 | 2,660 | 5,600 |
| G-54 LLG90 | 7,519 | - | - | 7,519 |
| TOTAL | 21,375 | 1,540.913 | 111,667 | 133,041 |

| | | | | |
|--------------|---------------|--------------|----------------|----------------|
| HLF | 12,688 | 109 | 7,801 | 20,488 |
| LLF | 8,687 | 1,432 | 103,866 | 112,553 |
| Total | 21,375 | 1,541 | 111,667 | 133,041 |

| | | | | |
|-------------------------------------|--|--|--|---------|
| Design Day from 2015-2016 COG | | | | 151,828 |
| Design Day from Billing Calculation | | | | 133,041 |
| Variance | | | | 18,787 |

Allocate Design Day Sendout to
Rate Classes

| Baseload as % of Total Class Load | Heat Load as % of Total |
|--|-------------------------------|
| 28% | 0.287% |
| 7% | 45.958% |
| 5% | 18.743% |
| 23% | 1.978% |
| 7% | 24.756% |
| 36% | 2.339% |
| 32% | 3.558% |
| 53% | 2.382% |
| 100% | 0.000% |
| | 100.000% |

| Base Load | Heat Load | Total |
|---------------|----------------|----------------|
| 124 | 374 | 499 |
| 3,749 | 59,953 | 63,703 |
| 1,078 | 24,450 | 25,529 |
| 644 | 2,581 | 3,224 |
| 1,969 | 32,295 | 34,264 |
| 1,461 | 3,051 | 4,512 |
| 1,891 | 4,641 | 6,532 |
| 2,940 | 3,107 | 6,047 |
| 7,519 | - | 7,519 |
| 21,375 | 130,453 | 151,828 |

EnergyNorth Natural Gas, Inc

**Calculation of Capacity Allocators
Docket No DE 98-124**

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CALCULATION OF NORMAL SALES VOLUMES

Actual Volumes

Total Core Sales Volumes(000's) MMBTU

| | | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Total | Monthly Baseload (Jul+Aug)/2 | Daily Baseload |
|-----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------------------|-------------------|
| HLF | R-1 RNSH | 5 | 7 | 9 | 10 | 9 | 8 | 7 | 3 | 4 | 4 | 3 | 3 | 71 | 3 850 | 0 124 |
| LLF | R-3 RSH | 338 | 692 | 951 | 1,087 | 1,070 | 716 | 368 | 186 | 121 | 112 | 106 | 152 | 5,896 | 116 231 | 3 749 |
| LLF | G-41 SL | 103 | 240 | 360 | 431 | 434 | 256 | 133 | 65 | 35 | 32 | 19 | 41 | 2,149 | 33 425 | 1 078 |
| HLF | G-51 SH | 28 | 39 | 50 | 60 | 56 | 40 | 28 | 22 | 20 | 20 | 20 | 20 | 403 | 19 955 | 0 644 |
| LLF | G-42 ML | 191 | 358 | 518 | 584 | 618 | 361 | 210 | 110 | 57 | 65 | 58 | 91 | 3,222 | 61 035 | 1 969 |
| HLF | G-52 MH | 62 | 72 | 92 | 91 | 102 | 76 | 58 | 54 | 45 | 46 | 42 | 45 | 783 | 45 295 | 1 461 |
| LLF | G-43 LL | 82 | 118 | 143 | 129 | 178 | 128 | 89 | 67 | 50 | 67 | 71 | 32 | 1,153 | 58 615 | 1 891 |
| HLF | G-53 LLL90 | 72 | 89 | 84 | 133 | 144 | 106 | 87 | 88 | 64 | 118 | 61 | 77 | 1,124 | 91 137 | 2 940 |
| HLF | G-54 LLL110 | 185 | 179 | 129 | 104 | 103 | 117 | 113 | 166 | 158 | 308 | 171 | 191 | 1,923 | 233 079 | 7 519 |
| HLF | G-63 LLG110 | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 000 | 0 000 |
| | TOTAL | 1,066 | 1,794 | 2,335 | 2,629 | 2,713 | 1,808 | 1,092 | 761 | 553 | 772 | 550 | 653 | 16,725 | 662 621 | 21 375 |
| HLF | | 352 | 386 | 364 | 398 | 413 | 347 | 292 | 334 | 291 | 496 | 296 | 336 | 4,304 | 393 316 | 12 688 |
| LLF | | 715 | 1,408 | 1,971 | 2,231 | 2,300 | 1,461 | 800 | 427 | 263 | 276 | 254 | 317 | 12,421 | 269 305 | 8 687 |

Baseload (= the lesser of actual volumes or the average of July and August volumes)

| | | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Total |
|-----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 365 |
| HLF | R-1 RNSH | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 45 |
| LLF | R-3 RSH | 112 | 116 | 116 | 105 | 116 | 112 | 116 | 112 | 121 | 112 | 106 | 116 | 1,369 |
| LLF | G-41 SL | 32 | 33 | 33 | 30 | 33 | 32 | 33 | 32 | 35 | 32 | 19 | 33 | 394 |
| HLF | G-51 SH | 19 | 20 | 20 | 18 | 20 | 19 | 20 | 19 | 20 | 20 | 19 | 20 | 235 |
| LLF | G-42 ML | 59 | 61 | 61 | 55 | 61 | 59 | 61 | 59 | 57 | 65 | 58 | 61 | 719 |
| HLF | G-52 MH | 44 | 45 | 45 | 41 | 45 | 44 | 45 | 44 | 45 | 46 | 42 | 45 | 533 |
| LLF | G-43 LL | 57 | 59 | 59 | 53 | 59 | 57 | 59 | 57 | 50 | 67 | 57 | 32 | 690 |
| HLF | G-53 LLL90 | 72 | 89 | 84 | 82 | 91 | 88 | 87 | 88 | 64 | 118 | 61 | 77 | 1,073 |
| HLF | G-54 LLL110 | 185 | 179 | 129 | 104 | 103 | 117 | 113 | 166 | 158 | 308 | 171 | 191 | 1,923 |
| HLF | G-63 LLG110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL | 615 | 637 | 582 | 520 | 563 | 562 | 569 | 611 | 584 | 803 | 565 | 610 | 7,802 |
| HLF | | 324 | 337 | 282 | 249 | 263 | 272 | 269 | 321 | 291 | 496 | 296 | 336 | 3,810 |
| LLF | | 261 | 269 | 269 | 243 | 269 | 261 | 269 | 261 | 263 | 276 | 239 | 243 | 3,171 |

EnergyNorth Natural Gas, Inc

**Calculation of Capacity Allocators
Docket No DE 98-124**

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Heating Volumes (= Actual Volumes - Baseload)

| | | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Total |
|-----|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| HLF | R-1 RNSH | 1 | 3 | 5 | 6 | 5 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 26 |
| LLF | R-3 RSH | 226 | 575 | 834 | 982 | 953 | 604 | 251 | 73 | 0 | 0 | 0 | 36 | 4,528 |
| LLF | G-41 SL | 71 | 206 | 327 | 400 | 400 | 223 | 100 | 33 | 0 | 0 | 0 | 8 | 1,756 |
| HLF | G-51 SH | 9 | 19 | 30 | 42 | 36 | 21 | 8 | 3 | 0 | 0 | 0 | 0 | 168 |
| LLF | G-42 ML | 132 | 297 | 457 | 529 | 557 | 302 | 149 | 51 | 0 | 0 | 0 | 30 | 2,503 |
| HLF | G-52 MH | 18 | 26 | 47 | 50 | 57 | 32 | 13 | 11 | 0 | 0 | 0 | 0 | 250 |
| LLF | G-43 LL | 25 | 60 | 84 | 76 | 120 | 71 | 30 | 10 | 0 | 0 | 14 | 0 | 463 |
| HLF | G-53 LLL90 | 0 | 0 | 0 | 51 | 53 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| HLF | G-54 LLL110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HLF | G-63 LLG110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL | 452 | 1,157 | 1,752 | 2,109 | 2,150 | 1,245 | 523 | 150 | (31) | (31) | (15) | 43 | 8,923 |

| | | | | | | | | | | | | | |
|------------|-----|-------|-------|-------|-------|-------|-----|-----|---|---|----|----|-------|
| HLF | 27 | 49 | 82 | 149 | 150 | 75 | 23 | 13 | 0 | 0 | 0 | 0 | 495 |
| LLF | 454 | 1,138 | 1,702 | 1,987 | 2,031 | 1,200 | 530 | 166 | 0 | 0 | 14 | 74 | 9,250 |

| | | | | | | | | | | | | | |
|-------------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|-------------|-------------|------------|-------------|--------------|--------|
| Actual BDD | 559.5 | 873.0 | 1160.5 | 1368.5 | 1231.0 | 798.5 | 322.0 | 97.5 | 12.5 | 3.5 | 70.0 | 238.5 | 6735 0 |
|-------------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|-------------|-------------|------------|-------------|--------------|--------|

Heat Factors

| | | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Total |
|-----|--------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|-------|
| HLF | R-1 RNSH | 0 0016 | 0 0038 | 0 0041 | 0 0045 | 0 0042 | 0 0049 | 0 0089 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | |
| LLF | R-3 RSH | 0 4036 | 0 6591 | 0 7189 | 0 7176 | 0 7745 | 0 7559 | 0 7808 | 0 7492 | 0 0000 | 0 0000 | 0 0000 | 0 1493 | |
| LLF | G-41 SL | 0 1269 | 0 2364 | 0 2817 | 0 2926 | 0 3253 | 0 2795 | 0 3092 | 0 3365 | 0 0000 | 0 0000 | 0 0000 | 0 0336 | |
| HLF | G-51 SH | 0 0159 | 0 0223 | 0 0261 | 0 0309 | 0 0290 | 0 0262 | 0 0238 | 0 0285 | 0 0000 | 0 0000 | 0 0052 | 0 0005 | |
| LLF | G-42 ML | 0 2362 | 0 3402 | 0 3934 | 0 3865 | 0 4527 | 0 3786 | 0 4637 | 0 5196 | 0 0000 | 0 0000 | 0 0000 | 0 1269 | |
| HLF | G-52 MH | 0 0316 | 0 0303 | 0 0402 | 0 0365 | 0 0459 | 0 0400 | 0 0402 | 0 1088 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | |
| LLF | G-43 LL | 0 0448 | 0 0682 | 0 0723 | 0 0555 | 0 0972 | 0 0894 | 0 0937 | 0 1014 | 0 0000 | 0 0000 | 0 2031 | 0 0000 | |
| HLF | G-53 LLL90 | 0 0000 | 0 0000 | 0 0000 | 0 0372 | 0 0427 | 0 0226 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | |
| HLF | G-54 LLL110 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | |
| HLF | G-63 LLG110 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | 0 0000 | |
| | TOTAL | 0 8070 | 1 3248 | 1 5100 | 1 5409 | 1 7465 | 1 5596 | 1 6241 | 1 5364 | -2 4800 | -8 8571 | -0 2203 | 0 1803 | |

EnergyNorth Natural Gas, Inc

**Calculation of Capacity Allocators
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| | | | | | | | | | | | | | |
|-----------------------------|--------------|--------------|----------------|----------------|----------------|--------------|--------------|--------------|-------------|------------|-------------|--------------|---------------|
| Actual BillingDD | 559.5 | 873.0 | 1,160.5 | 1,368.5 | 1,231.0 | 798.5 | 322.0 | 97.5 | 12.5 | 3.5 | 70.0 | 238.5 | 6735.0 |
| Norm Billing DD | 566.7 | 891.1 | 1147.6 | 1135.4 | 966.5 | 702.5 | 374.8 | 144.2 | 31.1 | 9.7 | 67.5 | 271.1 | 6308.3 |

Normal Volumes (= Heating Volumes * Normal EDD/Actual EDD + Baseload)

| | | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Total |
|------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| HLF | R-1 RNSH | 5 | 7 | 9 | 9 | 8 | 7 | 7 | 3 | 4 | 4 | 3 | 3 | 69 |
| LLF | R-3 RSH | 341 | 704 | 941 | 920 | 865 | 644 | 409 | 221 | 121 | 112 | 106 | 157 | 5,538 |
| LLF | G-41 SL | 104 | 244 | 357 | 362 | 348 | 229 | 149 | 81 | 35 | 32 | 19 | 43 | 2,003 |
| HLF | G-51 SH | 28 | 40 | 50 | 53 | 48 | 38 | 29 | 23 | 20 | 20 | 20 | 20 | 389 |
| LLF | G-42 ML | 193 | 364 | 513 | 494 | 499 | 325 | 235 | 134 | 57 | 65 | 58 | 95 | 3,031 |
| HLF | G-52 MH | 62 | 72 | 91 | 82 | 90 | 72 | 60 | 60 | 45 | 46 | 42 | 45 | 766 |
| LLF | G-43 LL | 82 | 119 | 142 | 116 | 153 | 120 | 94 | 71 | 50 | 67 | 70 | 32 | 1,116 |
| HLF | G-53 LLL90 | 72 | 89 | 84 | 125 | 132 | 104 | 87 | 88 | 64 | 118 | 61 | 77 | 1,102 |
| HLF | G-54 LLL110 | 185 | 179 | 129 | 104 | 103 | 117 | 113 | 166 | 158 | 308 | 171 | 191 | 1,923 |
| HLF | G-63 LLG110 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | TOTAL | 1,072 | 1,818 | 2,315 | 2,270 | 2,251 | 1,658 | 1,178 | 833 | 507 | 717 | 550 | 659 | 15,828 |

| | | | | | | | | | | | | | |
|------------|-----|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|--------|
| HLF | 352 | 387 | 363 | 373 | 381 | 338 | 296 | 341 | 291 | 496 | 296 | 336 | 4,249 |
| LLF | 720 | 1,431 | 1,952 | 1,892 | 1,864 | 1,317 | 887 | 507 | 263 | 276 | 253 | 327 | 11,689 |

Schedule 23

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Peak 2015 - 2016 Winter Cost of Gas Filing
Fixed Price Option

Schedule 23
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| | | <u>Participation</u> | <u>Premium</u> | <u>FPO Volumes</u> | <u>Premium Revenue</u> | <u>FPO Rate</u> | <u>Residential Average COG Rate</u> | <u>Residential Total Bill FPO Rate</u> | <u>Residential Total Bill COG Rate</u> | <u>Difference</u> | <u>% Difference</u> | <u>FPO Rate</u> | <u>C&I Average COG Rate</u> | <u>C&I Total Bill FPO Rate</u> | <u>C&I Total Bill COG Rate</u> | <u>Difference</u> | <u>% Difference</u> |
|----|-----------------|----------------------|----------------|--------------------|------------------------|-----------------|-------------------------------------|--|--|-------------------|---------------------|-----------------|---------------------------------|------------------------------------|------------------------------------|-------------------|---------------------|
| 1 | Nov 98 - Mar 99 | 6.0% | | | | \$0.3927 | \$0.3722 | \$ 943.37 | \$ 926.93 | \$ 16.44 | 1.77% | \$0.3927 | \$0.3736 | \$ 1,570.86 | \$ 1,546.08 | \$ 24.79 | 1.60% |
| 2 | Nov 99 - Mar 00 | 9.0% | | | | \$0.4724 | \$0.4628 | \$ 679.85 | \$ 672.22 | \$ 7.63 | 1.13% | \$0.4724 | \$0.4636 | \$ 1,161.81 | \$ 1,149.15 | \$ 12.67 | 1.10% |
| 3 | Nov 00 - Mar 01 | 20.0% | | | | \$0.6408 | \$0.7656 | \$ 816.25 | \$ 916.09 | \$ (99.84) | -10.90% | \$0.6408 | \$0.7189 | \$ 1,376.64 | \$ 1,533.43 | \$ (156.79) | -10.22% |
| 4 | Nov 01 - Apr 02 | 24.0% | | | | \$0.5141 | \$0.4818 | \$ 790.65 | \$ 760.55 | \$ 30.10 | 3.96% | \$0.5238 | \$0.4928 | \$ 1,301.07 | \$ 1,256.88 | \$ 44.19 | 3.52% |
| 5 | Nov 02 - Apr 03 | 24.0% | \$0.0051 | 25,107,016 | \$ 128,046 | \$0.5553 | \$0.5758 | \$ 821.32 | \$ 840.44 | \$ (19.11) | -2.27% | \$0.5658 | \$0.5860 | \$ 1,344.02 | \$ 1,372.86 | \$ (28.84) | -2.10% |
| 6 | Nov 03 - Apr 04 | 23.0% | \$0.0219 | 25,220,575 | \$ 552,331 | \$0.8597 | \$0.8220 | \$ 1,115.55 | \$ 1,080.46 | \$ 35.09 | 3.25% | \$0.8759 | \$0.8352 | \$ 1,798.38 | \$ 1,740.30 | \$ 58.08 | 3.34% |
| 7 | Nov 04 - Apr 05 | 29.6% | \$0.0100 | 27,378,128 | \$ 273,781 | \$0.8925 | \$0.9425 | \$ 1,142.96 | \$ 1,189.55 | \$ (46.60) | -3.92% | \$0.9092 | \$0.9562 | \$ 1,844.75 | \$ 1,911.86 | \$ (67.10) | -3.51% |
| 8 | Nov 05 - Apr 06 | 29.8% | \$0.0200 | 25,944,091 | \$ 518,882 | \$1.2951 | \$1.1342 | \$ 1,526.01 | \$ 1,376.01 | \$ 150.00 | 10.90% | \$1.3192 | \$1.1686 | \$ 2,450.66 | \$ 2,235.77 | \$ 214.89 | 9.61% |
| 9 | Nov 06 - Apr 07 | 15.1% | \$0.0200 | 13,135,684 | \$ 262,714 | \$1.2664 | \$1.1656 | \$ 1,509.79 | \$ 1,415.80 | \$ 93.99 | 6.64% | \$1.2666 | \$1.1647 | \$ 2,321.15 | \$ 2,175.70 | \$ 145.45 | 6.68% |
| 10 | Nov 07 - Apr 08 | 15.8% | \$0.0200 | 14,078,553 | \$ 281,571 | \$1.2043 | \$1.1746 | \$ 1,433.09 | \$ 1,405.40 | \$ 27.69 | 1.97% | \$1.2044 | \$1.1725 | \$ 2,232.39 | \$ 2,186.92 | \$ 45.47 | 2.08% |
| 11 | Nov 08 - Apr 09 | 15.2% | \$0.0200 | 13,041,335 | \$ 260,827 | \$1.2835 | \$1.0888 | \$ 1,555.31 | \$ 1,373.85 | \$ 181.46 | 13.21% | \$1.2836 | \$1.0958 | \$ 2,467.49 | \$ 2,199.54 | \$ 267.95 | 12.18% |
| 12 | Nov 09 - Apr 10 | 11.4% | \$0.0200 | 8,405,413 | \$ 168,108 | \$0.9863 | \$0.9416 | \$ 1,250.80 | \$ 1,209.12 | \$ 41.69 | 3.45% | \$0.9865 | \$0.9408 | \$ 1,984.29 | \$ 1,919.03 | \$ 65.26 | 3.40% |
| 13 | Nov 10 - Apr 11 | 12.6% | \$0.0200 | 10,379,804 | \$ 207,596 | \$0.8420 | \$0.8029 | \$ 1,175.03 | \$ 1,138.58 | \$ 36.45 | 3.20% | \$0.8434 | \$0.8030 | \$ 1,880.96 | \$ 1,823.34 | \$ 57.63 | 3.16% |
| 14 | Nov 11 - Apr 12 | 11.9% | \$0.0200 | 7,835,197 | \$ 156,704 | \$0.8126 | \$0.7309 | \$ 1,165.61 | \$ 1,089.44 | \$ 76.17 | 6.99% | \$0.8129 | \$0.7327 | \$ 1,845.28 | \$ 1,730.88 | \$ 114.40 | 6.61% |
| 15 | Nov 12 - Apr 13 | 10.9% | \$0.0200 | 8,179,524 | \$ 163,590 | \$0.6919 | \$0.7680 | \$ 743.03 | \$ 792.48 | \$ (49.45) | -6.24% | \$0.6936 | \$0.7724 | \$ 1,989.86 | \$ 2,132.90 | \$ (143.03) | -6.71% |
| 16 | Nov 13 - Apr 14 | 10.5% | \$0.0200 | 8,930,779 | \$ 178,616 | \$0.9095 | \$1.1078 | \$857.72 | \$981.21 | \$ (123.48) | -12.58% | \$0.9108 | \$1.1181 | \$2,418.74 | \$2,794.40 | \$ (375.65) | -13.44% |
| 17 | Nov 14 - Apr 15 | 15.1% | \$0.0795 | 8,779,742 | \$ 697,989 | \$1.2425 | \$0.9541 | \$1,127.66 | \$948.07 | \$ 179.59 | 18.94% | | | | | | |
| 18 | Nov 15 - Apr 16 | | | | | \$0.7716 | \$0.7516 | \$950.73 | \$875.25 | \$ 75.48 | 8.62% | | | | | | |
| 19 | Total | | | | | | | | | \$ 613.29 | | | | | | \$ 279.35 | |

Schedule 24

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Peak 2015 - 2016 Winter Cost of Gas Filing
Short-Term Debt Limitations

Schedule 24
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| | <u>For Purposes of Fuel Financing</u> |
|------------------------------|--|
| Total Direct Gas Costs | \$ 59,426,348 |
| Total Indirect Gas Costs | <u>5,026,252</u> |
| Total Gas Costs | \$ 64,452,601 |
| % of Debt to Total Gas Costs | 30% |
| Short Term Debt | \$ 19,335,780 |

| | <u>For Purposes Other Than Fuel Financing</u> |
|---------------------------------------|--|
| 12/31/2016 Projected Net Plant | \$ 369,357,526 |
| % of Debt to Net Plant | 20% |
| Short Term Debt | \$ 73,871,505 |

Schedule 25

Liberty Utilities (EnergyNorth Natural Gas) Corp.
d/b/a Liberty Utilities
2015 - 2016 Winter Cost of Gas Filing

Schedule 25
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Company Allowance Calculation

| | Jul-2014 | Aug-2014 | Sep-2014 | Oct-2014 | Nov-2014 | Dec-2014 | Jan-2015 | Feb-2015 | Mar-2015 | Apr-2015 | May-2015 | Jun-2015 | Total |
|--------------------------|-----------|-------------|-----------|-----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|--------------|
| Total Sendout- Therms | 5,296,900 | 5,571,400 | 6,338,580 | 9,422,180 | 17,674,080 | 22,027,850 | 30,818,380 | 30,372,710 | 23,948,970 | 13,041,730 | 6,738,680 | 6,186,320 | 177,437,780 |
| Total Throughput- Therms | 5,533,572 | 7,718,839 | 5,499,214 | 6,157,089 | 10,577,688 | 17,654,115 | 24,633,382 | 27,927,580 | 30,558,372 | 20,217,979 | 9,941,533 | 8,011,062 | 174,430,425 |
| Variance | (236,672) | (2,147,439) | 839,366 | 3,265,091 | 7,096,392 | 4,373,735 | 6,184,998 | 2,445,130 | (6,609,402) | (7,176,249) | (3,202,853) | (1,824,742) | 3,007,355 |
| Company Allowance | | | | | | | | | | | | | 1.69% |

Lost and Unaccounted For Gas ("LAUF") Calculation

| | Jul-2014 | Aug-2014 | Sep-2014 | Oct-2014 | Nov-2014 | Dec-2014 | Jan-2015 | Feb-2015 | Mar-2015 | Apr-2015 | May-2015 | Jun-2015 | Total |
|--------------------------|-----------|-------------|-----------|-----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|--------------|
| Total Sendout- Therms | 5,296,900 | 5,571,400 | 6,338,580 | 9,422,180 | 17,674,080 | 22,027,850 | 30,818,380 | 30,372,710 | 23,948,970 | 13,041,730 | 6,738,680 | 6,186,320 | 177,437,780 |
| Total Throughput- Therms | 5,533,572 | 7,718,839 | 5,499,214 | 6,157,089 | 10,577,688 | 17,654,115 | 24,633,382 | 27,927,580 | 30,558,372 | 20,217,979 | 9,941,533 | 8,011,062 | 174,430,425 |
| Company Use | 4,218 | 2,245 | 3,018 | 3,471 | 11,711 | 21,679 | 58,413 | 72,677 | 38,462 | 15,411 | 6,177 | 3,248 | 240,730 |
| Variance | (240,890) | (2,149,684) | 836,348 | 3,261,620 | 7,084,681 | 4,352,056 | 6,126,585 | 2,372,453 | (6,647,864) | (7,191,660) | (3,209,030) | (1,827,990) | 2,766,625 |
| LAUF | | | | | | | | | | | | | 1.56% |