

Exhibit No.:

Issues: Weather  
Normalization

Witness: Shawn E. Lange

Sponsoring Party: MO PSC Staff

Type of Exhibit: Rebuttal Testimony

Case No.: ER-2005-0436

Date Testimony Prepared: November 18, 2005

**MISSOURI PUBLIC SERVICE COMMISSION**

**UTILITY OPERATIONS DIVISION**

**REBUTTAL TESTIMONY**

**OF**

**SHAWN E. LANGE**

**AQUILA, INC.**

**D/B/A AQUILA NETWORKS – MPS**

**AND AQUILA NETWORKS – L&P**

**CASE NO. ER-2005-0436**

**Jefferson City, Missouri**

**October 2005**

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

In the Matter of Aquila, Inc. d/b/a Aquila )  
Networks-MPS and Aquila Networks- )  
L&P, for Authority to File Increasing )  
Electric Rates For the Service Provided to )  
Customers in the Aquila Networks-MPS )  
and Aquila Networks-L&P Area. )

Case No. ER-2005-0436

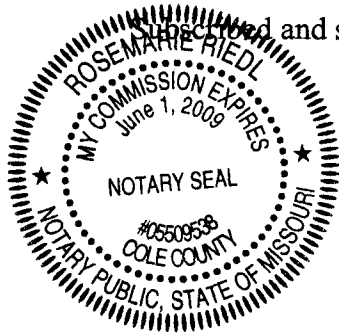
**AFFIDAVIT OF SHAWN LANGE**

**STATE OF MISSOURI**     )  
                                      ) ss  
**COUNTY OF COLE**     )

Shawn Lange, of lawful age, on his oath states: that he has participated in the preparation of the following Rebuttal Testimony in question and answer form, consisting of 3 pages of Rebuttal Testimony to be presented in the above case, that the answers in the following Rebuttal Testimony were given by him; that he has knowledge of the matters set forth in such answers; and that such matters are true to the best of his knowledge and belief.

Shawn Lange  
Shawn Lange

Subscribed and sworn to before me this 17<sup>th</sup> day of November, 2005.



Rosemarie Riedl  
Notary Public

My commission expires June 1, 2009



Rebuttal Testimony of  
Shawn E. Lange

1           A.     This update did not change the methodology. The methodology is still as  
2 described in my direct testimony on page 8.

3           Q.     What needed to be recalculated because of the error in the normal weather  
4 spreadsheet?

5           A.     The normal weather calculated in this spreadsheet is used in the weather  
6 normalization of class sales and net system loads. It also impacts the calculation of the  
7 days adjustment and the leap day adjustment. Therefore, I recalculated the adjustment to  
8 sales due to weather, the days adjustment, and the leap day adjustment and the weather  
9 normalized net system loads.

10          Q.     Which staff witness did you give your new class loads to?

11          A.     I gave the new class loads to Staff witness Amanda McMellen to calculate  
12 customer growth and Staff witness Janice Pyatte to calculate the revenue impact. I gave  
13 new normalized system loads to Staff witness David Elliott.

14          Q.     What is your recommendation to the Commission?

15          A.     The purpose of my testimony is to recommend that the Commission adopt  
16 the Staff's updated weather adjustments and days adjustments to class usage for the  
17 weather sensitive rate classes of Aquila Networks - MPS (MPS) and Aquila Networks -  
18 L&P (L&P). These adjustments are presented by rate class in Schedule 1. Staff witness  
19 Janice Pyatte calculated the corresponding adjustments to class revenues based on these  
20 adjustments to class usage. These adjustments to class usage were also included in my  
21 calculation of hourly generation requirements.

22                   I also recommend that the Commission adopt the updated hourly net  
23 system loads that I calculated. Staff witness David W. Elliott used these hourly loads in

Rebuttal Testimony of  
Shawn E. Lange

1 his fuel model to normalized fuel and purchased power expenses for the test year. A  
2 monthly summary of the updated normalized net system load for L&P is shown on  
3 Schedule 2 and for MPS on Schedule 3.

4 Q. Does this conclude your direct testimony?

5 A. Yes, it does.

**Aquila Networks L&P**  
**Actual and Weather Normalized Sales (kWh)**  
**Jan-Dec 2004**  
**Residential General Use (MO910)**

| Billing Month | Actual             | Weather Norm       | Weather Adj       | % Weather Adj | Days Adjustment    | Normalized (366 Days) | Leap Year Adjustment |
|---------------|--------------------|--------------------|-------------------|---------------|--------------------|-----------------------|----------------------|
| Jan-04        | 26,483,691         | 27,758,411         | 1,274,720         | 4.81%         | (3,084,794)        | 24,673,617            | (67,414)             |
| Feb-04        | 24,551,405         | 24,480,061         | (71,344)          | -0.29%        | (1,415,283)        | 23,064,778            | (63,019)             |
| Mar-04        | 21,563,028         | 21,860,306         | 297,278           | 1.38%         | (481,655)          | 21,378,651            | (58,412)             |
| Apr-04        | 18,114,504         | 18,502,983         | 388,479           | 2.14%         | (1,728,305)        | 16,774,678            | (45,832)             |
| May-04        | 19,537,118         | 18,011,491         | (1,525,627)       | -7.81%        | 2,249,968          | 20,261,459            | (55,359)             |
| Jun-04        | 26,537,527         | 26,204,208         | (333,319)         | -1.26%        | 5,776,108          | 31,980,316            | (87,378)             |
| Jul-04        | 32,468,097         | 38,847,760         | 6,379,663         | 19.65%        | 4,590,039          | 43,437,799            | (118,683)            |
| Aug-04        | 32,918,495         | 40,152,947         | 7,234,452         | 21.98%        | 2,842              | 40,155,789            | (109,715)            |
| Sep-04        | 30,334,222         | 35,356,633         | 5,022,411         | 16.56%        | (7,626,482)        | 27,730,151            | (75,765)             |
| Oct-04        | 23,192,507         | 23,192,849         | 342               | 0.00%         | (3,080,487)        | 20,112,362            | (54,952)             |
| Nov-04        | 18,172,618         | 18,883,239         | 710,621           | 3.91%         | 1,634,603          | 20,517,842            | (56,060)             |
| Dec-04        | 23,780,927         | 24,758,054         | 977,127           | 4.11%         | 2,551,200          | 27,309,254            | (74,615)             |
| <b>Total</b>  | <b>297,654,139</b> | <b>318,008,942</b> | <b>20,354,803</b> | <b>6.84%</b>  | <b>(612,246)</b>   | <b>317,396,696</b>    | <b>(867,204)</b>     |
| <b>Summer</b> | <b>122,258,341</b> | <b>140,561,548</b> | <b>18,303,207</b> | <b>14.97%</b> | <b>2,742,507</b>   | <b>143,304,055</b>    | <b>(391,541)</b>     |
| <b>Other</b>  | <b>175,395,798</b> | <b>177,447,394</b> | <b>2,051,596</b>  | <b>1.17%</b>  | <b>(3,354,753)</b> | <b>174,092,641</b>    | <b>(475,663)</b>     |

**Aquila Networks L&P**  
**Actual and Weather Normalized Sales (kWh)**  
**Jan-Dec 2004**  
**Residential General Use (MO911)**

| Billing Month | Actual           | Weather Norm     | Weather Adj    | % Weather Adj | Days Adjustment | Normalized (366 Days) | Leap Year Adjustment |
|---------------|------------------|------------------|----------------|---------------|-----------------|-----------------------|----------------------|
| Jan-04        | 209,446          | 221,019          | 11,573         | 5.53%         | (29,398)        | 191,621               | (524)                |
| Feb-04        | 190,207          | 188,603          | (1,604)        | -0.84%        | (5,137)         | 183,466               | (501)                |
| Mar-04        | 172,999          | 177,971          | 4,972          | 2.87%         | (578)           | 177,393               | (485)                |
| Apr-04        | 139,974          | 141,879          | 1,905          | 1.36%         | (4,908)         | 136,971               | (374)                |
| May-04        | 178,073          | 157,513          | (20,560)       | -11.55%       | 17,695          | 175,208               | (479)                |
| Jun-04        | 244,306          | 257,108          | 12,800         | 5.24%         | 12,032          | 269,138               | (735)                |
| Jul-04        | 278,266          | 332,767          | 54,501         | 19.59%        | 13,985          | 346,752               | (947)                |
| Aug-04        | 231,520          | 289,052          | 57,532         | 24.85%        | 41,024          | 330,076               | (902)                |
| Sep-04        | 266,330          | 297,735          | 31,405         | 11.79%        | (64,693)        | 233,042               | (637)                |
| Oct-04        | 180,662          | 180,445          | (217)          | -0.12%        | (11,219)        | 169,226               | (462)                |
| Nov-04        | 147,587          | 153,980          | 6,393          | 4.33%         | 7,199           | 161,179               | (440)                |
| Dec-04        | 188,857          | 196,400          | 7,543          | 3.99%         | 3,310           | 199,710               | (546)                |
| <b>Total</b>  | <b>2,428,227</b> | <b>2,594,470</b> | <b>166,243</b> | <b>6.85%</b>  | <b>(20,688)</b> | <b>2,573,782</b>      | <b>(7,032)</b>       |
| <b>Summer</b> | <b>1,020,422</b> | <b>1,176,660</b> | <b>156,238</b> | <b>15.31%</b> | <b>2,348</b>    | <b>1,179,008</b>      | <b>(3,221)</b>       |
| <b>Other</b>  | <b>1,407,805</b> | <b>1,417,810</b> | <b>10,005</b>  | <b>0.71%</b>  | <b>(23,036)</b> | <b>1,394,774</b>      | <b>(3,811)</b>       |

**Aquila Networks L&P**  
**Actual and Weather Normalized Sales (kWh)**  
**Jan-Dec 2004**  
**Residential Water Heat (MO913)**

| Billing Month | Actual            | Weather Norm      | Weather Adj      | % Weather Adj | Days Adjustment  | Normalized (366 Days) | Leap Year Adjustment |
|---------------|-------------------|-------------------|------------------|---------------|------------------|-----------------------|----------------------|
| Jan-04        | 8,557,922         | 8,892,197         | 334,275          | 3.91%         | (848,311)        | 8,043,886             | (21,978)             |
| Feb-04        | 8,082,235         | 8,041,717         | (40,518)         | -0.50%        | (428,479)        | 7,613,238             | (20,801)             |
| Mar-04        | 7,102,031         | 7,202,010         | 99,979           | 1.41%         | (343,431)        | 6,858,579             | (18,739)             |
| Apr-04        | 5,866,808         | 6,033,449         | 166,641          | 2.84%         | (400,545)        | 5,632,904             | (15,390)             |
| May-04        | 5,840,875         | 5,643,941         | (196,934)        | -3.37%        | 177,335          | 5,821,276             | (15,905)             |
| Jun-04        | 6,769,884         | 6,783,308         | 13,424           | 0.20%         | 753,878          | 7,537,186             | (20,593)             |
| Jul-04        | 7,798,981         | 8,946,641         | 1,147,660        | 14.72%        | 848,784          | 9,795,425             | (26,763)             |
| Aug-04        | 7,822,915         | 9,097,792         | 1,274,877        | 16.30%        | 43,993           | 9,141,785             | (24,978)             |
| Sep-04        | 7,252,665         | 8,167,115         | 914,450          | 12.61%        | (1,303,795)      | 6,863,320             | (18,752)             |
| Oct-04        | 6,186,002         | 6,311,952         | 125,950          | 2.04%         | (318,315)        | 5,993,637             | (16,376)             |
| Nov-04        | 5,550,409         | 5,777,385         | 226,976          | 4.09%         | 707,685          | 6,485,070             | (17,719)             |
| Dec-04        | 7,403,759         | 7,760,396         | 356,637          | 4.82%         | 880,582          | 8,640,978             | (23,609)             |
| <b>Total</b>  | <b>84,234,486</b> | <b>88,657,903</b> | <b>4,423,417</b> | <b>5.25%</b>  | <b>(230,619)</b> | <b>88,427,284</b>     | <b>(241,605)</b>     |
| <b>Summer</b> | <b>29,644,445</b> | <b>32,994,856</b> | <b>3,350,411</b> | <b>11.30%</b> | <b>342,860</b>   | <b>33,337,716</b>     | <b>(91,087)</b>      |
| <b>Other</b>  | <b>54,590,041</b> | <b>55,663,047</b> | <b>1,073,006</b> | <b>1.97%</b>  | <b>(573,479)</b> | <b>55,089,568</b>     | <b>(150,518)</b>     |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Residential Water Heat (MO914)

| Billing Month | Actual        | Weather Norm  | Weather Adj  | % Weather Adj | Days Adjustment | Normalized (366 Days) | Leap Year Adjustment |
|---------------|---------------|---------------|--------------|---------------|-----------------|-----------------------|----------------------|
| Jan-04        | 5,275         | 5,483         | 208          | 3.94%         | (145)           | 5,338                 | (15)                 |
| Feb-04        | 5,352         | 5,343         | (9)          | -0.17%        | (149)           | 5,194                 | (14)                 |
| Mar-04        | 5,103         | 5,138         | 35           | 0.69%         | (866)           | 4,272                 | (12)                 |
| Apr-04        | 3,698         | 3,806         | 108          | 2.92%         | (384)           | 3,422                 | (9)                  |
| May-04        | 3,534         | 3,453         | (81)         | -2.29%        | 1,171           | 4,624                 | (13)                 |
| Jun-04        | 6,366         | 6,363         | (3)          | -0.05%        | 976             | 7,339                 | (20)                 |
| Jul-04        | 7,415         | 8,477         | 1,062        | 14.32%        | 726             | 9,203                 | (25)                 |
| Aug-04        | 7,521         | 8,742         | 1,221        | 16.23%        | (181)           | 8,561                 | (23)                 |
| Sep-04        | 6,712         | 7,596         | 884          | 13.17%        | (1,677)         | 5,919                 | (16)                 |
| Oct-04        | 4,682         | 4,758         | 76           | 1.62%         | 857             | 5,615                 | (15)                 |
| Nov-04        | 5,283         | 5,495         | 212          | 4.01%         | (1,255)         | 4,240                 | (12)                 |
| Dec-04        | 4,182         | 4,398         | 216          | 5.16%         | 725             | 5,123                 | (14)                 |
| <b>Total</b>  | <b>65,123</b> | <b>69,052</b> | <b>3,929</b> | <b>6.03%</b>  | <b>(202)</b>    | <b>68,850</b>         | <b>(188)</b>         |
| <b>Summer</b> | <b>28,014</b> | <b>31,178</b> | <b>3,164</b> | <b>11.29%</b> | <b>(156)</b>    | <b>31,022</b>         | <b>(85)</b>          |
| <b>Other</b>  | <b>37,109</b> | <b>37,874</b> | <b>765</b>   | <b>2.06%</b>  | <b>(46)</b>     | <b>37,828</b>         | <b>(103)</b>         |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Residential General Use (MO915)

| Billing Month | Actual           | Weather Norm     | Weather Adj    | % Weather Adj | Days Adjustment  | Normalized (366 Days) | Leap Year Adjustment |
|---------------|------------------|------------------|----------------|---------------|------------------|-----------------------|----------------------|
| Jan-04        | 603,783          | 633,806          | 30,023         | 4.97%         | (120,853)        | 512,953               | (1,402)              |
| Feb-04        | 508,803          | 507,782          | (1,021)        | -0.20%        | (72,711)         | 435,071               | (1,189)              |
| Mar-04        | 371,265          | 375,068          | 3,803          | 1.02%         | (60,097)         | 314,971               | (861)                |
| Apr-04        | 249,907          | 255,601          | 5,694          | 2.28%         | (32,221)         | 223,380               | (610)                |
| May-04        | 240,826          | 228,356          | (14,470)       | -6.01%        | (15,320)         | 211,036               | (577)                |
| Jun-04        | 244,618          | 234,037          | (10,581)       | -4.33%        | 55,681           | 289,718               | (792)                |
| Jul-04        | 289,564          | 346,741          | 57,177         | 19.75%        | 57,601           | 404,342               | (1,105)              |
| Aug-04        | 321,705          | 390,532          | 68,827         | 21.39%        | 212,205          | 602,737               | (1,647)              |
| Sep-04        | 478,650          | 577,137          | 98,487         | 20.58%        | (63,239)         | 513,898               | (1,404)              |
| Oct-04        | 561,939          | 561,300          | (639)          | -0.11%        | 123,513          | 684,813               | (1,871)              |
| Nov-04        | 653,090          | 677,002          | 23,912         | 3.66%         | (67,954)         | 609,048               | (1,664)              |
| Dec-04        | 664,894          | 692,569          | 27,675         | 4.16%         | 60,353           | 752,922               | (2,057)              |
| <b>Total</b>  | <b>5,189,044</b> | <b>5,477,931</b> | <b>288,887</b> | <b>5.57%</b>  | <b>76,958</b>    | <b>5,554,889</b>      | <b>(15,177)</b>      |
| <b>Summer</b> | <b>1,334,537</b> | <b>1,548,447</b> | <b>213,910</b> | <b>16.03%</b> | <b>262,248</b>   | <b>1,810,695</b>      | <b>(4,947)</b>       |
| <b>Other</b>  | <b>3,854,507</b> | <b>3,929,484</b> | <b>74,977</b>  | <b>1.95%</b>  | <b>(185,290)</b> | <b>3,744,194</b>      | <b>(10,230)</b>      |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Residential Space Heat (MO920)

| Billing Month | Actual             | Weather Norm       | Weather Adj       | % Weather Adj | Days Adjustment  | Normalized (366 Days) | Leap Year Adjustment |
|---------------|--------------------|--------------------|-------------------|---------------|------------------|-----------------------|----------------------|
| Jan-04        | 40,134,416         | 44,292,217         | 4,157,801         | 10.36%        | (1,833,554)      | 42,458,663            | (116,007)            |
| Feb-04        | 44,337,060         | 43,767,552         | (569,508)         | -1.28%        | (4,933,661)      | 38,833,891            | (106,104)            |
| Mar-04        | 33,071,091         | 34,344,730         | 1,273,639         | 3.85%         | (4,482,886)      | 29,861,844            | (81,590)             |
| Apr-04        | 21,021,566         | 23,000,958         | 1,979,392         | 9.42%         | (4,278,352)      | 18,722,606            | (51,155)             |
| May-04        | 17,056,475         | 16,757,572         | (298,903)         | -1.75%        | (1,024,169)      | 15,733,403            | (42,987)             |
| Jun-04        | 17,423,373         | 17,552,534         | 129,161           | 0.74%         | 993,522          | 18,546,056            | (50,672)             |
| Jul-04        | 19,349,063         | 21,547,073         | 2,198,010         | 11.36%        | 1,186,091        | 22,733,164            | (62,112)             |
| Aug-04        | 18,476,895         | 20,798,586         | 2,321,691         | 12.57%        | 583,156          | 21,381,742            | (58,420)             |
| Sep-04        | 18,261,937         | 19,996,620         | 1,734,683         | 9.50%         | (2,723,079)      | 17,273,541            | (47,195)             |
| Oct-04        | 15,684,142         | 16,855,914         | 1,171,772         | 7.47%         | 836,644          | 17,692,558            | (48,340)             |
| Nov-04        | 17,023,756         | 18,935,256         | 1,911,500         | 11.23%        | 7,514,501        | 26,449,757            | (72,267)             |
| Dec-04        | 32,126,171         | 35,521,063         | 3,394,892         | 10.57%        | 7,449,420        | 42,970,483            | (117,406)            |
| <b>Total</b>  | <b>293,965,945</b> | <b>313,370,075</b> | <b>19,404,130</b> | <b>6.60%</b>  | <b>(712,367)</b> | <b>312,657,708</b>    | <b>(854,256)</b>     |
| <b>Summer</b> | <b>73,511,268</b>  | <b>79,894,813</b>  | <b>6,383,545</b>  | <b>8.68%</b>  | <b>39,690</b>    | <b>79,934,503</b>     | <b>(218,400)</b>     |
| <b>Other</b>  | <b>220,454,677</b> | <b>233,475,262</b> | <b>13,020,585</b> | <b>5.91%</b>  | <b>(752,057)</b> | <b>232,723,205</b>    | <b>(635,856)</b>     |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Residential Space Heat (MO921)

| Billing Month | Actual    | Weather Norm | Weather Adj | % Weather Adj | Days Adjustment | Normalized (366 Days) | Leap Year Adjustment |
|---------------|-----------|--------------|-------------|---------------|-----------------|-----------------------|----------------------|
| Jan-04        | 754,872   | 835,485      | 80,613      | 10.68%        | 281,264         | 1,116,749             | (3,051)              |
| Feb-04        | 1,173,226 | 1,168,160    | (5,066)     | -0.43%        | (243,211)       | 924,949               | (2,527)              |
| Mar-04        | 870,957   | 891,828      | 20,871      | 2.40%         | (124,133)       | 767,695               | (2,098)              |
| Apr-04        | 553,002   | 608,452      | 55,450      | 10.03%        | (131,091)       | 477,361               | (1,304)              |
| May-04        | 436,457   | 438,626      | 2,169       | 0.50%         | (74,886)        | 363,740               | (994)                |
| Jun-04        | 392,556   | 385,702      | (6,854)     | -1.75%        | 28,222          | 413,924               | (1,131)              |
| Jul-04        | 415,062   | 461,262      | 46,200      | 11.13%        | 13,401          | 474,663               | (1,297)              |
| Aug-04        | 397,935   | 447,643      | 49,708      | 12.49%        | 25,213          | 472,856               | (1,292)              |
| Sep-04        | 393,196   | 435,625      | 42,429      | 10.79%        | (60,747)        | 374,878               | (1,024)              |
| Oct-04        | 359,964   | 383,914      | 23,950      | 6.65%         | 48,819          | 432,733               | (1,182)              |
| Nov-04        | 406,977   | 450,514      | 43,537      | 10.70%        | 157,414         | 607,928               | (1,661)              |
| Dec-04        | 689,223   | 767,058      | 77,835      | 11.29%        | 221,523         | 988,581               | (2,701)              |
| Total         | 6,843,427 | 7,274,269    | 430,842     | 6.30%         | 141,788         | 7,416,057             | (20,262)             |
| Summer        | 1,598,749 | 1,730,232    | 131,483     | 8.22%         | 6,089           | 1,736,321             | (4,744)              |
| Other         | 5,244,678 | 5,544,037    | 299,359     | 5.71%         | 135,699         | 5,679,736             | (15,518)             |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Residential Space Heat (MO922)

| Billing Month | Actual  | Weather Norm | Weather Adj | % Weather Adj | Days Adjustment | Normalized (366 Days) | Leap Year Adjustment |
|---------------|---------|--------------|-------------|---------------|-----------------|-----------------------|----------------------|
| Jan-04        | 74,482  | 82,278       | 7,796       | 10.47%        | (4,637)         | 77,641                | (212)                |
| Feb-04        | 83,803  | 82,422       | (1,381)     | -1.65%        | (10,639)        | 71,783                | (196)                |
| Mar-04        | 55,939  | 58,538       | 2,599       | 4.65%         | (10,529)        | 48,009                | (131)                |
| Apr-04        | 30,140  | 32,932       | 2,792       | 9.26%         | (7,852)         | 25,080                | (69)                 |
| May-04        | 21,325  | 20,767       | (558)       | -2.62%        | 642             | 21,409                | (58)                 |
| Jun-04        | 25,942  | 26,437       | 495         | 1.91%         | 3,415           | 29,852                | (82)                 |
| Jul-04        | 34,921  | 38,892       | 3,971       | 11.37%        | 916             | 39,808                | (109)                |
| Aug-04        | 31,056  | 35,039       | 3,983       | 12.83%        | 1,934           | 36,973                | (101)                |
| Sep-04        | 31,385  | 34,182       | 2,797       | 8.91%         | (7,250)         | 26,932                | (74)                 |
| Oct-04        | 21,479  | 23,176       | 1,697       | 7.90%         | 648             | 23,824                | (65)                 |
| Nov-04        | 23,103  | 25,735       | 2,632       | 11.39%        | 13,491          | 39,226                | (107)                |
| Dec-04        | 52,867  | 58,275       | 5,408       | 10.23%        | 12,841          | 71,116                | (194)                |
| Total         | 486,442 | 518,673      | 32,231      | 6.63%         | (7,020)         | 511,653               | (1,398)              |
| Summer        | 123,304 | 134,550      | 11,246      | 9.12%         | (985)           | 133,565               | (365)                |
| Other         | 363,138 | 384,123      | 20,985      | 5.78%         | (6,035)         | 378,088               | (1,033)              |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Small General Service (MO930)

| Billing Month | Actual     | Weather Norm | Weather Adj | % Weather Adj | Days Adjustment | Normalized (366 Days) | Leap Year Adjustment |
|---------------|------------|--------------|-------------|---------------|-----------------|-----------------------|----------------------|
| Jan-04        | 2,330,597  | 2,437,125    | 106,528     | 4.57%         | (207,993)       | 2,229,132             | (6,091)              |
| Feb-04        | 2,167,245  | 2,156,820    | (10,425)    | -0.48%        | (134,314)       | 2,022,506             | (5,526)              |
| Mar-04        | 1,952,230  | 1,992,504    | 40,274      | 2.06%         | (75,117)        | 1,917,387             | (5,239)              |
| Apr-04        | 1,578,083  | 1,618,029    | 39,946      | 2.53%         | (119,587)       | 1,498,442             | (4,094)              |
| May-04        | 1,529,900  | 1,472,739    | (57,161)    | -3.74%        | 31,068          | 1,503,807             | (4,109)              |
| Jun-04        | 1,736,822  | 1,716,334    | (20,488)    | -1.18%        | 229,027         | 1,945,361             | (5,315)              |
| Jul-04        | 2,051,706  | 2,206,472    | 154,766     | 7.54%         | (21,970)        | 2,184,502             | (5,969)              |
| Aug-04        | 1,858,019  | 2,023,094    | 165,075     | 8.88%         | 81,182          | 2,104,276             | (5,749)              |
| Sep-04        | 1,887,727  | 1,986,404    | 98,677      | 5.23%         | (258,697)       | 1,727,707             | (4,721)              |
| Oct-04        | 1,566,266  | 1,563,456    | (2,810)     | -0.18%        | 96,930          | 1,660,386             | (4,537)              |
| Nov-04        | 1,645,751  | 1,713,146    | 67,395      | 4.10%         | 110,409         | 1,823,555             | (4,982)              |
| Dec-04        | 2,021,217  | 2,110,998    | 89,781      | 4.44%         | 194,454         | 2,305,452             | (6,299)              |
| Total         | 22,325,563 | 22,997,121   | 671,558     | 3.01%         | (74,608)        | 22,922,513            | (62,630)             |
| Summer        | 7,534,274  | 7,932,304    | 398,030     | 5.28%         | 29,542          | 7,961,846             | (21,754)             |
| Other         | 14,791,289 | 15,064,817   | 273,528     | 1.85%         | (104,150)       | 14,960,667            | (40,876)             |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Small General Service (MO931)

| Billing Month | Actual            | Weather Norm      | Weather Adj      | % Weather Adj | Days Adjustment  | Normalized (366 Days) | Leap Year Adjustment |
|---------------|-------------------|-------------------|------------------|---------------|------------------|-----------------------|----------------------|
| Jan-04        | 4,034,708         | 4,225,438         | 190,730          | 4.73%         | (393,514)        | 3,831,924             | (10,470)             |
| Feb-04        | 3,835,358         | 3,816,313         | (19,045)         | -0.50%        | (155,972)        | 3,680,341             | (10,001)             |
| Mar-04        | 3,519,920         | 3,590,823         | 70,903           | 2.01%         | (12,679)         | 3,578,144             | (9,776)              |
| Apr-04        | 3,102,796         | 3,180,420         | 77,624           | 2.50%         | 57,368           | 3,237,788             | (8,846)              |
| May-04        | 3,519,704         | 3,387,787         | (131,917)        | -3.75%        | 267,272          | 3,655,059             | (9,987)              |
| Jun-04        | 4,280,490         | 4,220,593         | (59,897)         | -1.40%        | 373,423          | 4,594,016             | (12,552)             |
| Jul-04        | 4,780,174         | 5,141,149         | 360,975          | 7.55%         | 136,506          | 5,277,655             | (14,420)             |
| Aug-04        | 4,561,632         | 4,964,735         | 403,103          | 8.84%         | 256,915          | 5,221,650             | (14,267)             |
| Sep-04        | 4,662,351         | 4,917,556         | 255,205          | 5.47%         | (604,509)        | 4,313,047             | (11,784)             |
| Oct-04        | 3,840,401         | 3,827,285         | (13,116)         | -0.34%        | (303,710)        | 3,523,575             | (9,627)              |
| Nov-04        | 3,296,783         | 3,430,681         | 133,898          | 4.06%         | 35,024           | 3,465,705             | (9,469)              |
| Dec-04        | 3,682,969         | 3,847,418         | 164,449          | 4.47%         | (32,765)         | 3,814,653             | (10,423)             |
| <b>Total</b>  | <b>47,117,286</b> | <b>48,550,198</b> | <b>1,432,912</b> | <b>3.04%</b>  | <b>(376,641)</b> | <b>48,173,557</b>     | <b>(131,622)</b>     |
| <b>Summer</b> | <b>18,284,647</b> | <b>19,244,033</b> | <b>959,386</b>   | <b>5.25%</b>  | <b>162,335</b>   | <b>19,406,368</b>     | <b>(53,023)</b>      |
| <b>Other</b>  | <b>28,832,639</b> | <b>29,306,165</b> | <b>473,526</b>   | <b>1.64%</b>  | <b>(538,976)</b> | <b>28,767,189</b>     | <b>(78,599)</b>      |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Small General Service (MO932)

| Billing Month | Actual           | Weather Norm     | Weather Adj    | % Weather Adj | Days Adjustment | Normalized (366 Days) | Leap Year Adjustment |
|---------------|------------------|------------------|----------------|---------------|-----------------|-----------------------|----------------------|
| Jan-04        | 520,578          | 544,739          | 24,161         | 4.64%         | (46,460)        | 498,279               | (1,361)              |
| Feb-04        | 531,304          | 528,281          | (3,023)        | -0.57%        | (31,459)        | 496,822               | (1,357)              |
| Mar-04        | 444,559          | 453,793          | 9,234          | 2.08%         | (100,805)       | 352,988               | (964)                |
| Apr-04        | 230,740          | 236,355          | 5,615          | 2.43%         | (2,091)         | 234,264               | (640)                |
| May-04        | 235,993          | 227,046          | (8,947)        | -3.79%        | (9,222)         | 217,824               | (595)                |
| Jun-04        | 244,083          | 241,652          | (2,431)        | -1.00%        | 22,667          | 264,319               | (722)                |
| Jul-04        | 278,725          | 299,608          | 20,883         | 7.49%         | 7,511           | 307,119               | (839)                |
| Aug-04        | 272,188          | 296,748          | 24,560         | 9.02%         | 9,402           | 306,150               | (836)                |
| Sep-04        | 272,520          | 285,983          | 13,463         | 4.94%         | (30,186)        | 255,797               | (699)                |
| Oct-04        | 233,069          | 232,846          | (223)          | -0.10%        | (1,004)         | 231,842               | (633)                |
| Nov-04        | 226,796          | 236,134          | 9,338          | 4.12%         | 62,760          | 298,894               | (817)                |
| Dec-04        | 385,703          | 402,489          | 16,786         | 4.35%         | 111,158         | 513,647               | (1,403)              |
| <b>Total</b>  | <b>3,876,258</b> | <b>3,985,674</b> | <b>109,416</b> | <b>2.82%</b>  | <b>(7,729)</b>  | <b>3,977,945</b>      | <b>(10,869)</b>      |
| <b>Summer</b> | <b>1,067,516</b> | <b>1,123,991</b> | <b>56,475</b>  | <b>5.29%</b>  | <b>9,394</b>    | <b>1,133,385</b>      | <b>(3,097)</b>       |
| <b>Other</b>  | <b>2,808,742</b> | <b>2,861,683</b> | <b>52,941</b>  | <b>1.88%</b>  | <b>(17,123)</b> | <b>2,844,560</b>      | <b>(7,772)</b>       |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Small General Service (MO933)

| Billing Month | Actual            | Weather Norm      | Weather Adj    | % Weather Adj | Days Adjustment | Normalized (366 Days) | Leap Year Adjustment |
|---------------|-------------------|-------------------|----------------|---------------|-----------------|-----------------------|----------------------|
| Jan-04        | 2,379,778         | 2,494,025         | 114,247        | 4.80%         | (106,508)       | 2,387,517             | (6,523)              |
| Feb-04        | 2,504,839         | 2,491,694         | (13,145)       | -0.52%        | (174,738)       | 2,316,956             | (6,330)              |
| Mar-04        | 2,123,297         | 2,166,423         | 43,126         | 2.03%         | (117,147)       | 2,049,276             | (5,599)              |
| Apr-04        | 1,641,441         | 1,683,745         | 42,304         | 2.58%         | (214,559)       | 1,469,186             | (4,014)              |
| May-04        | 1,484,401         | 1,427,603         | (56,798)       | -3.83%        | (2,652)         | 1,424,951             | (3,893)              |
| Jun-04        | 1,687,226         | 1,675,359         | (11,867)       | -0.70%        | 119,997         | 1,795,356             | (4,905)              |
| Jul-04        | 1,779,088         | 1,912,983         | 133,895        | 7.53%         | 3,432           | 1,916,415             | (5,236)              |
| Aug-04        | 1,632,849         | 1,779,234         | 146,385        | 8.97%         | 93,441          | 1,872,675             | (5,117)              |
| Sep-04        | 1,645,116         | 1,732,411         | 87,295         | 5.31%         | (148,281)       | 1,584,130             | (4,328)              |
| Oct-04        | 1,471,419         | 1,466,754         | (4,665)        | -0.32%        | (36,677)        | 1,430,077             | (3,907)              |
| Nov-04        | 1,381,364         | 1,437,921         | 56,557         | 4.09%         | 277,101         | 1,715,022             | (4,686)              |
| Dec-04        | 2,129,890         | 2,223,776         | 93,886         | 4.41%         | 335,539         | 2,559,315             | (6,993)              |
| <b>Total</b>  | <b>21,860,708</b> | <b>22,491,928</b> | <b>631,220</b> | <b>2.89%</b>  | <b>28,948</b>   | <b>22,520,876</b>     | <b>(61,532)</b>      |
| <b>Summer</b> | <b>6,744,279</b>  | <b>7,099,987</b>  | <b>355,708</b> | <b>5.27%</b>  | <b>68,589</b>   | <b>7,168,576</b>      | <b>(19,586)</b>      |
| <b>Other</b>  | <b>15,116,429</b> | <b>15,391,941</b> | <b>275,512</b> | <b>1.82%</b>  | <b>(39,641)</b> | <b>15,352,300</b>     | <b>(41,946)</b>      |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Small General Service (MO934)

| Billing Month | Actual    | Weather Norm | Weather Adj | % Weather Adj | Days Adjustment | Normalized (366 Days) | Leap Year Adjustment |
|---------------|-----------|--------------|-------------|---------------|-----------------|-----------------------|----------------------|
| Jan-04        | 416,042   | 435,616      | 19,574      | 4.70%         | (39,640)        | 395,976               | (1,082)              |
| Feb-04        | 392,523   | 391,217      | (1,306)     | -0.33%        | (14,653)        | 376,564               | (1,029)              |
| Mar-04        | 369,098   | 374,958      | 5,860       | 1.59%         | (13,781)        | 361,177               | (987)                |
| Apr-04        | 302,893   | 311,832      | 8,939       | 2.95%         | (51,558)        | 260,274               | (711)                |
| May-04        | 267,308   | 258,127      | (9,181)     | -3.43%        | 40,279          | 298,406               | (815)                |
| Jun-04        | 356,961   | 349,406      | (7,555)     | -2.12%        | 52,608          | 402,014               | (1,098)              |
| Jul-04        | 432,341   | 464,988      | 32,647      | 7.55%         | 58,099          | 523,087               | (1,429)              |
| Aug-04        | 473,122   | 513,608      | 40,486      | 8.56%         | (7,819)         | 505,789               | (1,382)              |
| Sep-04        | 436,410   | 463,209      | 26,799      | 6.14%         | (62,921)        | 400,288               | (1,094)              |
| Oct-04        | 360,598   | 358,238      | (2,360)     | -0.65%        | (61,778)        | 296,460               | (810)                |
| Nov-04        | 265,623   | 276,408      | 10,785      | 4.06%         | 31,878          | 308,286               | (842)                |
| Dec-04        | 349,791   | 365,639      | 15,848      | 4.53%         | 47,481          | 413,120               | (1,129)              |
| Total         | 4,422,710 | 4,563,246    | 140,536     | 3.18%         | (21,805)        | 4,541,441             | (12,408)             |
| Summer        | 1,698,834 | 1,791,211    | 92,377      | 5.44%         | 39,967          | 1,831,178             | (5,003)              |
| Other         | 2,723,876 | 2,772,035    | 48,159      | 1.77%         | (61,772)        | 2,710,263             | (7,405)              |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Large General Service (MO940)

| Billing Month | Actual      | Weather Norm | Weather Adj | % Weather Adj | Days Adjustment | Normalized (366 Days) | Leap Year Adjustment |
|---------------|-------------|--------------|-------------|---------------|-----------------|-----------------------|----------------------|
| Jan-04        | 31,684,474  | 32,554,221   | 869,747     | 2.75%         | (1,405,805)     | 31,148,416            | (85,105)             |
| Feb-04        | 31,683,610  | 31,602,489   | (81,121)    | -0.26%        | (1,305,238)     | 30,297,251            | (82,779)             |
| Mar-04        | 30,874,599  | 31,379,910   | 505,311     | 1.64%         | 1,061,864       | 32,441,774            | (88,639)             |
| Apr-04        | 27,858,618  | 28,340,784   | 482,166     | 1.73%         | (235,061)       | 28,105,723            | (76,792)             |
| May-04        | 29,859,571  | 29,275,955   | (583,616)   | -1.95%        | 940,118         | 30,216,073            | (82,558)             |
| Jun-04        | 32,914,294  | 32,653,742   | (260,552)   | -0.79%        | 1,018,599       | 33,672,341            | (92,001)             |
| Jul-04        | 34,869,823  | 36,414,368   | 1,544,565   | 4.43%         | (331,002)       | 36,083,386            | (98,588)             |
| Aug-04        | 32,928,800  | 34,659,510   | 1,730,710   | 5.26%         | 1,524,580       | 36,184,090            | (98,864)             |
| Sep-04        | 33,728,143  | 34,716,375   | 988,232     | 2.93%         | (1,728,687)     | 32,987,688            | (90,130)             |
| Oct-04        | 30,642,853  | 30,253,291   | (389,562)   | -1.27%        | (1,114,673)     | 29,138,618            | (79,614)             |
| Nov-04        | 27,094,587  | 27,465,236   | 370,649     | 1.37%         | 980,877         | 28,446,113            | (77,722)             |
| Dec-04        | 32,424,806  | 33,230,549   | 805,743     | 2.48%         | 815,171         | 34,045,720            | (93,021)             |
| Total         | 376,564,178 | 382,546,450  | 5,982,272   | 1.59%         | 220,743         | 382,767,193           | (1,045,812)          |
| Summer        | 134,441,060 | 138,444,015  | 4,002,955   | 2.98%         | 483,490         | 138,927,505           | (379,583)            |
| Other         | 242,123,118 | 244,102,435  | 1,979,317   | 0.82%         | (262,747)       | 243,839,688           | (666,229)            |

Aquila Networks L&P  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Small General Service (MO941)

| Billing Month | Actual    | Weather Norm | Weather Adj | % Weather Adj | Days Adjustment | Normalized (366 Days) | Leap Year Adjustment |
|---------------|-----------|--------------|-------------|---------------|-----------------|-----------------------|----------------------|
| Jan-04        | 384,242   | 403,368      | 19,126      | 4.98%         | (1,694)         | 401,674               | (1,097)              |
| Feb-04        | 435,399   | 432,762      | (2,637)     | -0.61%        | (47,400)        | 385,362               | (1,053)              |
| Mar-04        | 325,030   | 331,858      | 6,828       | 2.10%         | (53,608)        | 278,250               | (760)                |
| Apr-04        | 197,150   | 202,305      | 5,155       | 2.61%         | (35,372)        | 166,933               | (456)                |
| May-04        | 156,213   | 150,784      | (5,429)     | -3.48%        | (6,236)         | 144,548               | (395)                |
| Jun-04        | 157,710   | 154,746      | (2,964)     | -1.88%        | 3,019           | 157,765               | (431)                |
| Jul-04        | 156,298   | 168,127      | 11,829      | 7.57%         | 8,213           | 176,340               | (482)                |
| Aug-04        | 152,324   | 165,794      | 13,470      | 8.84%         | 12,227          | 178,021               | (486)                |
| Sep-04        | 160,153   | 169,427      | 9,274       | 5.79%         | (18,357)        | 151,070               | (413)                |
| Oct-04        | 146,051   | 145,479      | (572)       | -0.39%        | 5,413           | 150,892               | (412)                |
| Nov-04        | 162,811   | 169,437      | 6,626       | 4.07%         | 58,739          | 228,176               | (623)                |
| Dec-04        | 291,813   | 304,850      | 13,037      | 4.47%         | 48,890          | 353,740               | (967)                |
| Total         | 2,725,194 | 2,798,937    | 73,743      | 2.71%         | (26,166)        | 2,772,771             | (7,576)              |
| Summer        | 626,485   | 658,094      | 31,609      | 5.05%         | 5,102           | 663,196               | (1,812)              |
| Other         | 2,098,709 | 2,140,843    | 42,134      | 2.01%         | (31,268)        | 2,109,575             | (5,764)              |

**Aquila Networks MPS**  
**Actual and Weather Normalized Sales (kWh)**  
**Jan-Dec 2004**  
**Small General Service (MO710 & MO711)**

| Billing Month | Actual             | Weather Norm       | Weather Adj       | % Weather Adj | Days Adjustment    | Normalized (366 Days) | Leap Year Adjustment |
|---------------|--------------------|--------------------|-------------------|---------------|--------------------|-----------------------|----------------------|
| Jan-04        | 66,130,542         | 67,933,290         | 1,802,748         | 2.73%         | (4,692,669)        | 63,240,621            | (172,789)            |
| Feb-04        | 63,029,591         | 62,759,656         | (269,935)         | -0.43%        | (4,231,299)        | 58,528,357            | (159,914)            |
| Mar-04        | 60,448,103         | 61,000,502         | 552,399           | 0.91%         | 1,329,951          | 62,330,453            | (170,302)            |
| Apr-04        | 53,057,711         | 53,261,208         | 203,497           | 0.38%         | (1,119,498)        | 52,141,710            | (142,464)            |
| May-04        | 55,874,030         | 53,780,343         | (2,093,687)       | -3.75%        | 3,317,355          | 57,097,698            | (156,005)            |
| Jun-04        | 65,256,529         | 64,973,409         | (283,120)         | -0.43%        | 4,740,875          | 69,714,284            | (190,476)            |
| Jul-04        | 72,738,811         | 78,336,913         | 5,598,102         | 7.70%         | 2,739,339          | 81,076,252            | (221,520)            |
| Aug-04        | 70,386,716         | 76,526,628         | 6,139,912         | 8.72%         | 2,096,129          | 78,622,757            | (214,816)            |
| Sep-04        | 69,297,606         | 72,555,171         | 3,257,565         | 4.70%         | (9,280,389)        | 63,274,782            | (172,882)            |
| Oct-04        | 57,318,366         | 56,505,707         | (812,659)         | -1.42%        | (1,548,042)        | 54,957,665            | (150,158)            |
| Nov-04        | 50,842,332         | 52,091,792         | 1,249,460         | 2.46%         | (777,192)          | 51,314,600            | (140,204)            |
| Dec-04        | 58,461,383         | 59,909,242         | 1,447,859         | 2.48%         | 4,977,320          | 64,886,562            | (177,286)            |
| <b>Total</b>  | <b>742,841,720</b> | <b>759,633,861</b> | <b>16,792,141</b> | <b>2.26%</b>  | <b>(2,448,120)</b> | <b>757,185,741</b>    | <b>(2,068,814)</b>   |
| <b>Summer</b> | <b>277,679,662</b> | <b>292,392,121</b> | <b>14,712,459</b> | <b>5.30%</b>  | <b>295,954</b>     | <b>292,688,075</b>    | <b>(799,694)</b>     |
| <b>Other</b>  | <b>465,162,058</b> | <b>467,241,740</b> | <b>2,079,682</b>  | <b>0.45%</b>  | <b>(2,744,074)</b> | <b>464,497,666</b>    | <b>(1,269,119)</b>   |

**Aquila Networks MPS**  
**Actual and Weather Normalized Sales (kWh)**  
**Jan-Dec 2004**  
**Large General Service (MO720)**

| Billing Month | Actual             | Weather Norm       | Weather Adj       | % Weather Adj | Days Adjustment    | Normalized (366 Days) | Leap Year Adjustment |
|---------------|--------------------|--------------------|-------------------|---------------|--------------------|-----------------------|----------------------|
| Jan-04        | 65,628,433         | 67,126,632         | 1,498,199         | 2.28%         | (3,366,286)        | 63,760,346            | (174,209)            |
| Feb-04        | 60,958,326         | 60,597,628         | (360,698)         | -0.59%        | (4,328,440)        | 56,269,188            | (153,741)            |
| Mar-04        | 60,776,176         | 61,598,100         | 821,924           | 1.35%         | 3,909,600          | 65,507,700            | (178,983)            |
| Apr-04        | 55,265,864         | 55,679,962         | 414,098           | 0.75%         | (79,405)           | 55,600,557            | (151,914)            |
| May-04        | 61,385,710         | 59,991,706         | (1,394,004)       | -2.27%        | 2,416,878          | 62,408,584            | (170,515)            |
| Jun-04        | 64,173,931         | 64,191,274         | 17,343            | 0.03%         | 2,335,568          | 66,526,842            | (181,767)            |
| Jul-04        | 74,095,046         | 77,541,748         | 3,446,702         | 4.65%         | 683,008            | 78,224,756            | (213,729)            |
| Aug-04        | 69,548,830         | 73,225,768         | 3,676,938         | 5.29%         | 3,429,401          | 76,655,169            | (209,440)            |
| Sep-04        | 73,205,264         | 74,979,954         | 1,774,690         | 2.42%         | (4,714,717)        | 70,265,237            | (191,982)            |
| Oct-04        | 65,577,254         | 64,963,010         | (614,244)         | -0.94%        | (948,483)          | 64,014,527            | (174,903)            |
| Nov-04        | 59,336,768         | 59,748,769         | 412,001           | 0.69%         | (1,357,308)        | 58,391,461            | (159,540)            |
| Dec-04        | 62,612,745         | 64,075,738         | 1,462,993         | 2.34%         | 2,371,162          | 66,446,900            | (181,549)            |
| <b>Total</b>  | <b>772,564,347</b> | <b>783,720,289</b> | <b>11,155,942</b> | <b>1.44%</b>  | <b>350,978</b>     | <b>784,071,267</b>    | <b>(2,142,271)</b>   |
| <b>Summer</b> | <b>281,023,071</b> | <b>289,938,744</b> | <b>8,915,673</b>  | <b>3.17%</b>  | <b>1,733,260</b>   | <b>291,672,004</b>    | <b>(796,918)</b>     |
| <b>Other</b>  | <b>491,541,276</b> | <b>493,781,545</b> | <b>2,240,269</b>  | <b>0.46%</b>  | <b>(1,382,282)</b> | <b>492,399,263</b>    | <b>(1,345,353)</b>   |

**Aquila Networks MPS**  
**Actual and Weather Normalized Sales (kWh)**  
**Jan-Dec 2004**  
**Schools and Churches (MO740)**

| Billing Month | Actual            | Weather Norm      | Weather Adj      | % Weather Adj | Days Adjustment  | Normalized (366 Days) | Leap Year Adjustment |
|---------------|-------------------|-------------------|------------------|---------------|------------------|-----------------------|----------------------|
| Jan-04        | 2,498,062         | 2,631,360         | 133,298          | 5.34%         | (134,932)        | 2,496,428             | (6,821)              |
| Feb-04        | 2,546,554         | 2,531,092         | (15,462)         | -0.61%        | (203,011)        | 2,328,081             | (6,361)              |
| Mar-04        | 2,299,877         | 2,349,748         | 49,871           | 2.17%         | (43,362)         | 2,306,386             | (6,302)              |
| Apr-04        | 1,886,880         | 1,917,475         | 30,595           | 1.62%         | (33,432)         | 1,884,043             | (5,148)              |
| May-04        | 1,978,422         | 1,865,884         | (112,538)        | -5.69%        | 145,894          | 2,011,778             | (5,497)              |
| Jun-04        | 2,375,046         | 2,393,260         | 18,214           | 0.77%         | 238,953          | 2,632,213             | (7,192)              |
| Jul-04        | 2,685,534         | 3,076,552         | 391,018          | 14.56%        | 352,814          | 3,429,366             | (9,370)              |
| Aug-04        | 2,812,256         | 3,261,386         | 449,130          | 15.97%        | (12,692)         | 3,248,694             | (8,876)              |
| Sep-04        | 2,817,615         | 3,046,367         | 228,752          | 8.12%         | (346,196)        | 2,700,171             | (7,378)              |
| Oct-04        | 2,420,044         | 2,378,335         | (41,709)         | -1.72%        | (259,244)        | 2,119,091             | (5,790)              |
| Nov-04        | 1,846,116         | 1,908,491         | 62,375           | 3.38%         | 30,893           | 1,939,384             | (5,299)              |
| Dec-04        | 2,192,189         | 2,294,511         | 102,322          | 4.67%         | 123,541          | 2,418,052             | (6,907)              |
| <b>Total</b>  | <b>28,358,595</b> | <b>29,654,461</b> | <b>1,295,866</b> | <b>4.57%</b>  | <b>(140,774)</b> | <b>29,513,687</b>     | <b>(80,638)</b>      |
| <b>Summer</b> | <b>10,690,451</b> | <b>11,777,565</b> | <b>1,087,114</b> | <b>10.17%</b> | <b>232,879</b>   | <b>12,010,444</b>     | <b>(32,815)</b>      |
| <b>Other</b>  | <b>17,668,144</b> | <b>17,876,896</b> | <b>208,752</b>   | <b>1.18%</b>  | <b>(373,653)</b> | <b>17,503,243</b>     | <b>(47,823)</b>      |

Aquila Networks MPS  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Residential General Use (MO860)

| Billing Month | Actual               | Weather Norm         | Weather Adj       | % Weather Adj | Days Adjustment     | Normalized (366 Days) | Leap Year Adjustment |
|---------------|----------------------|----------------------|-------------------|---------------|---------------------|-----------------------|----------------------|
| Jan-04        | 135,549,238          | 140,459,056          | 4,909,818         | 3.62%         | (14,430,266)        | 126,028,790           | (344,341)            |
| Feb-04        | 124,359,768          | 123,792,079          | (567,689)         | -0.46%        | (11,102,930)        | 112,689,149           | (307,894)            |
| Mar-04        | 104,451,798          | 104,978,462          | 526,664           | 0.50%         | 562,618             | 105,541,080           | (288,364)            |
| Apr-04        | 95,836,853           | 95,554,884           | (281,969)         | -0.29%        | (6,300,533)         | 89,254,351            | (243,864)            |
| May-04        | 102,091,396          | 93,579,645           | (8,511,751)       | -8.34%        | 14,972,200          | 108,551,845           | (296,590)            |
| Jun-04        | 142,693,538          | 143,208,701          | 515,163           | 0.36%         | 28,086,568          | 171,295,269           | (468,020)            |
| Jul-04        | 174,850,974          | 208,500,828          | 33,649,854        | 19.24%        | 24,775,624          | 233,276,452           | (637,367)            |
| Aug-04        | 177,341,342          | 213,607,836          | 36,266,494        | 20.45%        | 2,796,961           | 216,404,797           | (591,270)            |
| Sep-04        | 161,226,563          | 185,895,101          | 24,668,538        | 15.30%        | (45,570,476)        | 140,324,625           | (383,401)            |
| Oct-04        | 119,870,797          | 119,725,013          | (145,784)         | -0.12%        | (15,415,199)        | 104,309,814           | (284,999)            |
| Nov-04        | 93,459,936           | 96,266,802           | 2,806,866         | 3.00%         | 6,375,530           | 102,642,332           | (280,444)            |
| Dec-04        | 117,457,418          | 121,416,505          | 3,959,087         | 3.37%         | 11,468,628          | 132,885,133           | (363,074)            |
| <b>Total</b>  | <b>1,549,189,621</b> | <b>1,646,984,912</b> | <b>97,795,291</b> | <b>6.31%</b>  | <b>(3,781,275)</b>  | <b>1,643,203,637</b>  | <b>(4,489,627)</b>   |
| <b>Summer</b> | <b>656,112,417</b>   | <b>751,212,466</b>   | <b>95,100,049</b> | <b>14.49%</b> | <b>10,088,677</b>   | <b>761,301,143</b>    | <b>(2,080,058)</b>   |
| <b>Other</b>  | <b>893,077,204</b>   | <b>895,772,446</b>   | <b>2,695,242</b>  | <b>0.30%</b>  | <b>(13,869,952)</b> | <b>881,902,494</b>    | <b>(2,409,570)</b>   |

Aquila Networks MPS  
Actual and Weather Normalized Sales (kWh)  
Jan-Dec 2004  
Residential Space Heat (MO870)

| Billing Month | Actual             | Weather Norm       | Weather Adj       | % Weather Adj | Days Adjustment     | Normalized (366 Days) | Leap Year Adjustment |
|---------------|--------------------|--------------------|-------------------|---------------|---------------------|-----------------------|----------------------|
| Jan-04        | 97,964,741         | 106,747,598        | 8,782,857         | 8.97%         | (4,685,235)         | 102,062,363           | (278,859)            |
| Feb-04        | 104,854,181        | 103,641,609        | (1,012,572)       | -0.97%        | (13,360,514)        | 90,281,095            | (246,670)            |
| Mar-04        | 78,103,179         | 80,780,751         | 2,677,572         | 3.43%         | (6,809,208)         | 73,971,543            | (202,108)            |
| Apr-04        | 56,379,997         | 60,930,837         | 4,550,840         | 8.07%         | (11,311,809)        | 49,619,028            | (135,671)            |
| May-04        | 47,283,505         | 45,761,428         | (1,522,077)       | -3.22%        | (205,767)           | 45,555,661            | (124,469)            |
| Jun-04        | 55,041,010         | 55,701,150         | 660,140           | 1.20%         | 7,837,054           | 63,538,204            | (173,602)            |
| Jul-04        | 64,139,083         | 72,597,655         | 8,458,572         | 13.19%        | 6,489,686           | 79,087,341            | (216,086)            |
| Aug-04        | 64,243,379         | 73,867,751         | 9,624,372         | 14.98%        | 1,609,695           | 75,477,446            | (206,223)            |
| Sep-04        | 61,166,374         | 67,861,974         | 6,695,600         | 10.95%        | (11,744,727)        | 56,117,247            | (153,326)            |
| Oct-04        | 51,564,178         | 52,602,989         | 1,038,811         | 2.01%         | (2,562,445)         | 50,040,544            | (136,723)            |
| Nov-04        | 46,012,181         | 49,847,597         | 3,835,416         | 8.34%         | 16,587,228          | 66,434,825            | (181,516)            |
| Dec-04        | 78,280,994         | 85,564,264         | 7,283,270         | 9.30%         | (2,212,389)         | 83,351,875            | (227,737)            |
| <b>Total</b>  | <b>804,832,802</b> | <b>855,905,603</b> | <b>51,072,801</b> | <b>6.35%</b>  | <b>(20,368,431)</b> | <b>835,537,172</b>    | <b>(2,282,888)</b>   |
| <b>Summer</b> | <b>244,589,846</b> | <b>270,028,530</b> | <b>25,438,684</b> | <b>10.40%</b> | <b>4,191,708</b>    | <b>274,220,238</b>    | <b>(749,236)</b>     |
| <b>Other</b>  | <b>560,242,956</b> | <b>585,877,073</b> | <b>25,634,117</b> | <b>4.58%</b>  | <b>(24,560,139)</b> | <b>561,316,934</b>    | <b>(1,533,653)</b>   |

Aquila Networks - L&P  
Net System Load  
Normalized for 2004\*  
**ER-2005-0436**

| Month  | Monthly Usage (MWh) |           |         |        | Monthly Peaks (MW) |        |          |        | Load Factor |        |
|--------|---------------------|-----------|---------|--------|--------------------|--------|----------|--------|-------------|--------|
|        | Actual              | Normal    | Adj     | % Adj  | Actual             | Normal | Wthr Adj | % Adj  | Actual      | Normal |
| Jan-04 | 190,394             | 215,414   | 25,020  | 13.14% | 357                | 373    | 16       | 4.60%  | 0.72        | 0.78   |
| Feb-04 | 170,388             | 178,944   | 8,556   | 5.02%  | 333                | 356    | 23       | 6.83%  | 0.74        | 0.72   |
| Mar-04 | 154,480             | 166,063   | 11,583  | 7.50%  | 268                | 298    | 30       | 11.25% | 0.77        | 0.75   |
| Apr-04 | 136,122             | 139,980   | 3,858   | 2.83%  | 242                | 250    | 8        | 3.38%  | 0.78        | 0.78   |
| May-04 | 153,318             | 149,895   | (3,423) | -2.23% | 332                | 317    | (15)     | -4.60% | 0.62        | 0.64   |
| Jun-04 | 159,827             | 178,812   | 18,985  | 11.88% | 337                | 357    | 20       | 6.06%  | 0.66        | 0.69   |
| Jul-04 | 181,798             | 228,845   | 47,047  | 25.88% | 398                | 438    | 40       | 10.17% | 0.61        | 0.70   |
| Aug-04 | 172,487             | 200,702   | 28,215  | 16.36% | 399                | 399    | 0        | 0.06%  | 0.58        | 0.68   |
| Sep-04 | 159,117             | 164,431   | 5,314   | 3.34%  | 341                | 343    | 2        | 0.47%  | 0.65        | 0.67   |
| Oct-04 | 142,425             | 149,060   | 6,635   | 4.66%  | 240                | 245    | 5        | 2.09%  | 0.80        | 0.82   |
| Nov-04 | 149,879             | 162,642   | 12,763  | 8.52%  | 284                | 292    | 8        | 2.80%  | 0.73        | 0.77   |
| Dec-04 | 178,991             | 196,343   | 17,352  | 9.69%  | 329                | 351    | 22       | 6.80%  | 0.73        | 0.75   |
| Annual | 1,949,226           | 2,131,131 | 181,905 | 9.33%  | 399                | 438    | 39       | 9.89%  | 0.56        | 0.55   |

|        |           |           |        |        |     |     |    |       |      |      |
|--------|-----------|-----------|--------|--------|-----|-----|----|-------|------|------|
| Summer | 673,229   | 772,790   | 99,561 | 14.79% | 399 | 438 | 39 | 9.89% | 0.58 | 0.60 |
| Other  | 1,275,997 | 1,358,341 | 82,344 | 6.45%  | 357 | 373 | 16 | 4.60% | 0.61 | 0.62 |

\* Normalized for weather, growth, and large customers

Aquila Networks MPS  
Net System Load  
Normalized for 2004\*  
**ER-2005-0436**

| Month  | Monthly Usage (MWh) |           |          |        | Monthly Peaks (MW) |        |       |         | Load Factor |        |
|--------|---------------------|-----------|----------|--------|--------------------|--------|-------|---------|-------------|--------|
|        | Actual              | Normal    | Adj      | % Adj  | Actual             | Normal | Adj   | % Adj   | Actual      | Normal |
| Jan-04 | 513,600             | 546,956   | 33,356   | 6.49%  | 951                | 907    | (44)  | -4.67%  | 0.73        | 0.81   |
| Feb-04 | 461,895             | 462,921   | 1,026    | 0.22%  | 893                | 892    | (1)   | -0.15%  | 0.74        | 0.75   |
| Mar-04 | 427,767             | 435,240   | 7,473    | 1.75%  | 735                | 780    | 45    | 6.06%   | 0.78        | 0.75   |
| Apr-04 | 387,999             | 374,850   | (13,149) | -3.39% | 689                | 651    | (38)  | -5.50%  | 0.78        | 0.80   |
| May-04 | 468,836             | 428,082   | (40,754) | -8.69% | 1,064              | 880    | (184) | -17.30% | 0.59        | 0.65   |
| Jun-04 | 497,124             | 532,555   | 35,431   | 7.13%  | 1,171              | 1,170  | (1)   | -0.07%  | 0.59        | 0.63   |
| Jul-04 | 581,011             | 718,460   | 137,449  | 23.66% | 1,344              | 1,413  | 69    | 5.11%   | 0.58        | 0.68   |
| Aug-04 | 545,734             | 618,858   | 73,124   | 13.40% | 1,335              | 1,338  | 3     | 0.23%   | 0.55        | 0.62   |
| Sep-04 | 491,001             | 477,438   | (13,563) | -2.76% | 1,133              | 1,049  | (84)  | -7.43%  | 0.60        | 0.63   |
| Oct-04 | 409,677             | 406,266   | (3,411)  | -0.83% | 727                | 705    | (22)  | -3.09%  | 0.76        | 0.78   |
| Nov-04 | 425,352             | 437,849   | 12,497   | 2.94%  | 864                | 834    | (30)  | -3.51%  | 0.68        | 0.73   |
| Dec-04 | 501,823             | 521,175   | 19,352   | 3.86%  | 957                | 934    | (23)  | -2.36%  | 0.70        | 0.75   |
| Annual | 5,711,819           | 5,960,651 | 248,832  | 4.36%  | 1,344              | 1,413  | 69    | 5.11%   | 0.49        | 0.48   |

|        |           |           |         |        |       |       |       |         |      |      |
|--------|-----------|-----------|---------|--------|-------|-------|-------|---------|------|------|
| Summer | 2,114,870 | 2,347,311 | 232,441 | 10.99% | 1,344 | 1,413 | 69    | 5.11%   | 0.54 | 0.57 |
| Other  | 3,596,949 | 3,613,339 | 16,390  | 0.46%  | 1,064 | 934   | (130) | -12.18% | 0.58 | 0.66 |

\* Normalized for weather, growth, and large customers