

*Public*



# **Integrated Resource Plan**

**4 CSR 240-22.030**

**Load Analysis and Forecasting**

**Volume 2**

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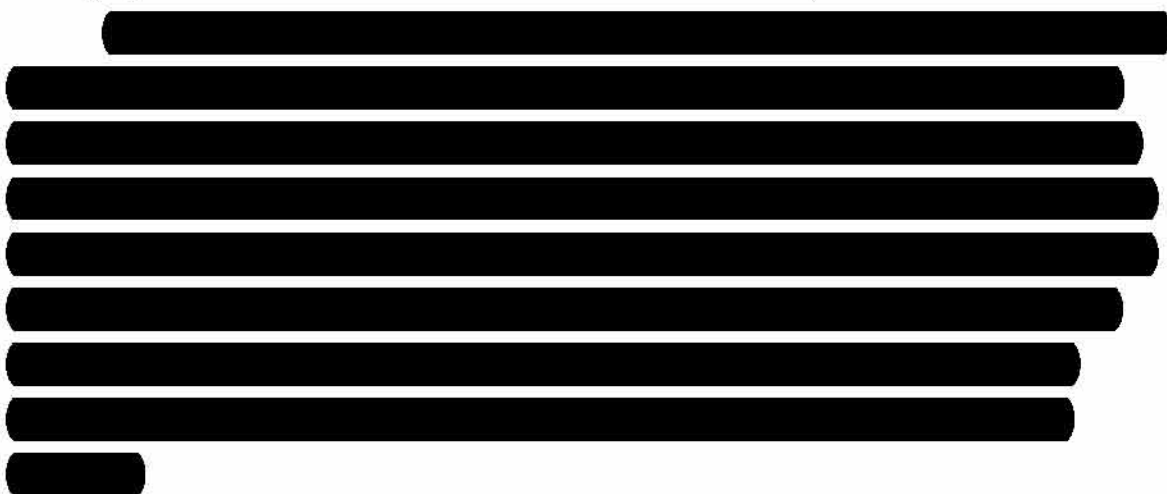
February 2008



## 4 CSR 240-22.030 (5)

**(5) Base-Case Load Forecast.** The utility's base-case load forecast shall be based on projections of the major economic and demographic driver variables that utility decision-makers believe to be most likely. All components of the base-case forecast shall be based on the assumption of normal weather conditions. The load impacts of implemented demand-side programs shall be incorporated in the base-case load forecast but the load impacts of proposed demand-side programs shall not be included in the base-case forecast.

AmerenUE uses Economy.com's projections of the major economic and demographic driver variables for AmerenUE's service territory.



Employment Growth (Year-to-year percent change)



Source: Bureau of Labor Statistics

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AmerenUE's energy forecast results are based on normal weather conditions. The models are estimated using actual energy usage and actual weather conditions for the history and for the forecast period, normal weather is used. Historical sales are simulated with normal weather to evaluate forecast growth rates using the "Simulation" object in MetrixND. As part of the Stipulation and Agreement, AmerenUE also did the energy forecast using the weather-normalized sales and normal weather conditions. The difference between the results from using weather-normalized sales and using actual sales is insignificant as can be seen in Table (5)-1. Furthermore, using weather normalized sales in forecasting is more time consuming but does not improve the model performance; a comparison of the model statistics can be found in Table (5)-2. AmerenUE has the tools to model actual sales with actual weather and to forecast with normal weather and the results from those models are used in resource planning.

**Table (5)-1:** Forecast difference between models with weather-normalized sales and actual sales (GWh)

| Year | WNRes  | Res    | Diff | WNCom  | Com    | Diff | WNInd | Ind   | Diff | WNWhl | Whl | Diff | WNTotal | Total  | Diff | Total | % Diff | Total |
|------|--------|--------|------|--------|--------|------|-------|-------|------|-------|-----|------|---------|--------|------|-------|--------|-------|
| 2007 | 13,644 | 13,659 | -15  | 14,381 | 14,397 | -16  | 5,571 | 5,591 | -20  | 642   | 638 | 4    | 34,238  | 34,286 | (47) |       | -0.14% |       |
| 2008 | 13,878 | 13,892 | -14  | 14,704 | 14,722 | -19  | 5,549 | 5,558 | -9   | 657   | 652 | 5    | 34,788  | 34,825 | (37) |       | -0.11% |       |
| 2009 | 14,110 | 14,122 | -12  | 15,057 | 15,076 | -19  | 5,564 | 5,564 | 0    |       |     |      | 34,731  | 34,762 | (31) |       | -0.09% |       |
| 2010 | 14,333 | 14,344 | -11  | 15,395 | 15,415 | -20  | 5,574 | 5,585 | -9   |       |     |      | 35,302  | 35,324 | (22) |       | -0.06% |       |
| 2011 | 14,559 | 14,569 | -10  | 15,739 | 15,759 | -20  | 5,580 | 5,584 | -4   |       |     |      | 35,878  | 35,892 | (14) |       | -0.04% |       |
| 2012 | 14,787 | 14,797 | -10  | 16,095 | 16,114 | -19  | 5,583 | 5,581 | 2    |       |     |      | 36,465  | 36,472 | (7)  |       | -0.02% |       |
| 2013 | 15,008 | 15,019 | -11  | 16,441 | 16,459 | -19  | 5,578 | 5,550 | 28   |       |     |      | 37,027  | 37,029 | (2)  |       | 0.00%  |       |
| 2014 | 15,235 | 15,248 | -13  | 16,788 | 16,806 | -18  | 5,575 | 5,542 | 33   |       |     |      | 37,598  | 37,595 | 3    |       | 0.01%  |       |
| 2015 | 15,471 | 15,484 | -13  | 17,128 | 17,146 | -18  | 5,570 | 5,532 | 38   |       |     |      | 38,169  | 38,162 | 7    |       | 0.02%  |       |
| 2016 | 15,715 | 15,729 | -14  | 17,466 | 17,474 | -8   | 5,567 | 5,525 | 42   |       |     |      | 38,739  | 38,728 | 10   |       | 0.03%  |       |
| 2017 | 15,963 | 15,977 | -14  | 17,796 | 17,814 | -17  | 5,565 | 5,519 | 46   |       |     |      | 39,324  | 39,310 | 14   |       | 0.04%  |       |
| 2018 | 16,218 | 16,233 | -14  | 18,141 | 18,157 | -16  | 5,561 | 5,512 | 49   |       |     |      | 39,920  | 39,902 | 18   |       | 0.05%  |       |
| 2019 | 16,480 | 16,494 | -15  | 18,481 | 18,496 | -15  | 5,556 | 5,504 | 52   |       |     |      | 40,516  | 40,495 | 22   |       | 0.05%  |       |
| 2020 | 16,747 | 16,763 | -16  | 18,832 | 18,845 | -14  | 5,547 | 5,492 | 54   |       |     |      | 41,125  | 41,100 | 25   |       | 0.06%  |       |
| 2021 | 17,019 | 17,035 | -17  | 19,158 | 19,171 | -12  | 5,535 | 5,478 | 57   |       |     |      | 41,711  | 41,684 | 28   |       | 0.07%  |       |
| 2022 | 17,300 | 17,317 | -18  | 19,493 | 19,504 | -11  | 5,517 | 5,468 | 59   |       |     |      | 42,310  | 42,280 | 30   |       | 0.07%  |       |
| 2023 | 17,587 | 17,607 | -19  | 19,835 | 19,843 | -8   | 5,498 | 5,437 | 61   |       |     |      | 42,920  | 42,887 | 33   |       | 0.08%  |       |
| 2024 | 17,887 | 17,908 | -20  | 20,175 | 20,181 | -6   | 5,475 | 5,412 | 63   |       |     |      | 43,537  | 43,501 | 37   |       | 0.08%  |       |
| 2025 | 18,194 | 18,215 | -21  | 20,529 | 20,531 | -2   | 5,452 | 5,387 | 65   |       |     |      | 44,175  | 44,133 | 42   |       | 0.09%  |       |
| 2026 | 18,511 | 18,533 | -21  | 20,880 | 20,878 | 2    | 5,426 | 5,359 | 67   |       |     |      | 44,817  | 44,770 | 47   |       | 0.10%  |       |
| 2027 | 18,836 | 18,858 | -22  | 21,231 | 21,226 | 6    | 5,397 | 5,329 | 68   |       |     |      | 45,465  | 45,412 | 52   |       | 0.12%  |       |
| 2028 | 19,166 | 19,189 | -23  | 21,617 | 21,606 | 11   | 5,365 | 5,295 | 70   |       |     |      | 46,149  | 46,090 | 59   |       | 0.13%  |       |
| 2029 | 19,497 | 19,521 | -24  | 22,013 | 21,995 | 18   | 5,328 | 5,256 | 72   |       |     |      | 46,838  | 46,773 | 65   |       | 0.14%  |       |
| 2030 | 19,833 | 19,860 | -26  | 22,369 | 22,347 | 23   | 5,288 | 5,214 | 74   |       |     |      | 47,491  | 47,420 | 70   |       | 0.15%  |       |

**Table (5)-2:** Weather-normalized and actual model forecast performance

| Model      | R-Sq  | Adj R-Sq | F Stat  | F-Stat Prob | DW Stat | MAD   | MAPE  | Std Err | Adj Obs |
|------------|-------|----------|---------|-------------|---------|-------|-------|---------|---------|
| ResUPC     | 0.989 | 0.988    | 847.47  | 0.00        | 1.95    | 0.02  | 1.95% | 0.03    | 137     |
| WNResUPC   | 0.988 | 0.988    | 1829.03 | 0.00        | 1.90    | 0.02  | 1.90% | 0.02    | 137     |
| ComSGS     | 0.972 | 0.964    | 113.16  | 0.00        | 2.07    | 4845  | 1.83% | 7323    | 137     |
| WNComSGS   | 0.953 | 0.942    | 85.26   | 0.00        | 2.09    | 4762  | 1.77% | 7850    | 136     |
| ComLGS     | 0.916 | 0.909    | 125.11  | 0.00        | 1.87    | 15138 | 3.14% | 20713   | 138     |
| WNLGS      | 0.916 | 0.909    | 137.96  | 0.00        | 1.84    | 13860 | 2.91% | 18586   | 138     |
| ComSPS     | 0.938 | 0.926    | 75.65   | 0.00        | 2.15    | 4080  | 1.88% | 5673    | 61      |
| WNComSPS   | 0.920 | 0.902    | 51.05   | 0.00        | 2.04    | 4045  | 1.88% | 5753    | 61      |
| ComLPS     | 0.922 | 0.908    | 58.40   | 0.00        | 2.02    | 2949  | 3.26% | 3910    | 65      |
| WNLPS      | 0.915 | 0.897    | 47.47   | 0.00        | 1.99    | 2959  | 3.28% | 4124    | 65      |
| IndSales   | 0.836 | 0.808    | 28.20   | 0.00        | 2.08    | 10646 | 2.16% | 15676   | 137     |
| WNIndSales | 0.816 | 0.790    | 29.12   | 0.00        | 2.13    | 10517 | 2.15% | 14268   | 136     |
| Whls       | 0.944 | 0.936    | 118.03  | 0.00        | 1.97    | 1349  | 2.63% | 2064    | 89      |
| WNWhls     | 0.926 | 0.915    | 88.60   | 0.00        | 2.01    | 1417  | 2.84% | 2056    | 90      |

There were no implemented demand-side programs at the time this forecast was prepared; therefore, no demand-side impact has been incorporated in the base-case load forecast.

## **CSR 240-22.030 (5) (A)**

**(A) Customer Class and Total Load Detail.** The utility shall produce forecasts of monthly energy usage and demands at the time of the summer and winter system peaks by major class for each year of the planning horizon. Where the utility anticipates that jurisdictional levels of forecasts will be required to meet the requirements of a specific state, then the utility shall determine a procedure by which the major class forecasts can be separated by jurisdictional component.

Forecasts of monthly energy usage and demands at the time of monthly system peaks by major class for each year of the planning horizon were produced and provided in the latter sections.

## **CSR 240-22.030 (5) (B) 1**

**(B) Load Component Detail.** For each major class, the utility shall produce separate forecasts of the number of units and use per unit components based on the analysis described in sections (2) and (3) of this rule.

**1. Number of units forecast.** The utility's forecast of number of units for each major class shall be based on the analysis of the relationship between number of units and driver variables described in section (2). Where judgment has been applied to modify the results of a statistical or mathematical model, the utility shall specify the factors which caused the modification and shall explain how those factors were quantified.

All number of units forecast model specifications are provided in 22.030 (2) (B).

## CSR 240-22.030 (5) (B) 1.A

A. The forecasts of the driver variables shall be specified and clearly documented. These forecasts shall be compared to historical trends and significant differences between the forecasts and long-term and recent trends shall be analyzed and explained.

Data for the economic and driver variables are provided below.

Table (5) (B)-1: Total employment

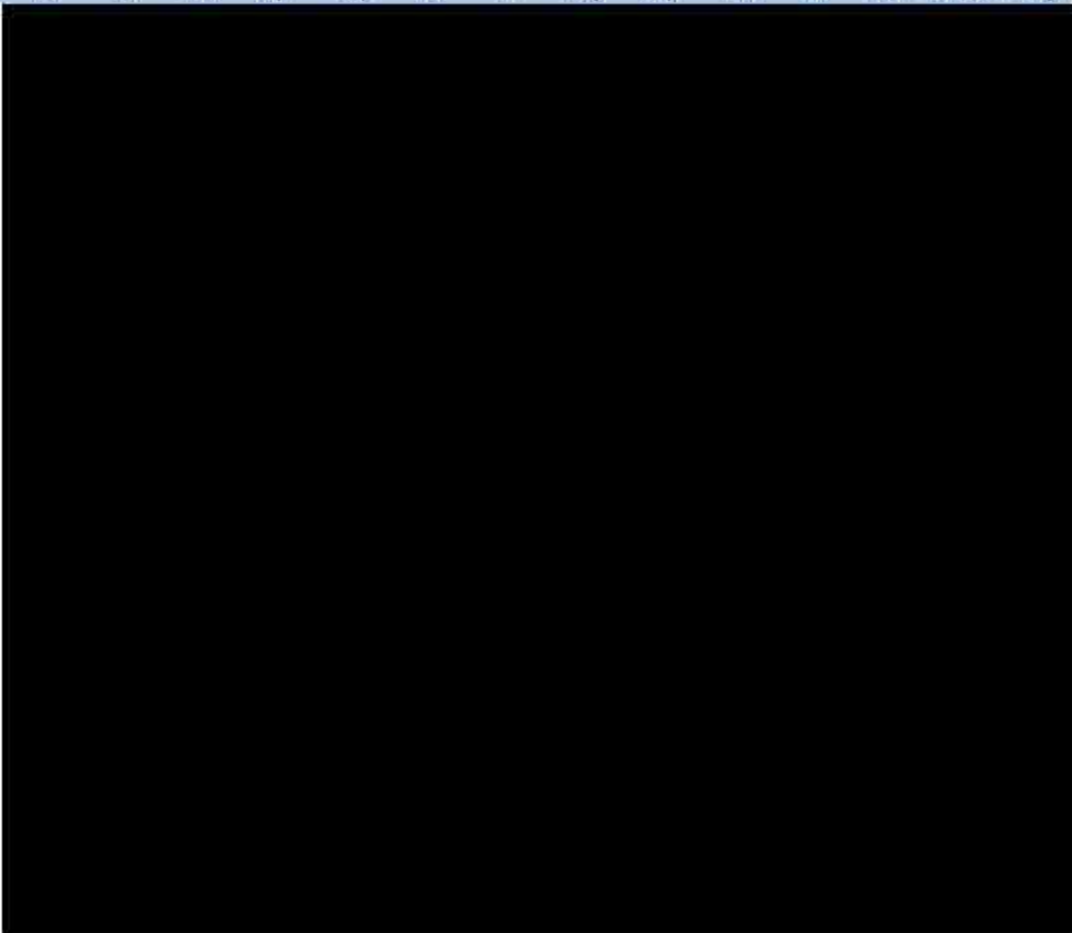
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |



**Table (5) (B)-2: Manufacturing employment**

| Year | Jan                                                                                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |  |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-3: Non-manufacturing employment**

| Year | Jan                                                                                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |  |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-4:** Retail trade employment

| Year | Jan                                                                                 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |  |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |                                                                                     |     |     |     |     |     |     |     |     |     |     |     |        |        |

Table (5) (B)-5: Total GDP

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-6: Manufacturing GDP**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-7: Non-manufacturing GDP**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-8:** Retail trade GDP

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

Table (5) (B)-9: Personal income

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |



**Table (5) (B)-10: Population**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-11: Households**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-12: Household size**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-13: Household income**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 1995 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1996 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1997 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1998 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 1999 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2000 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2001 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2002 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2003 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2004 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2005 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

## **CSR 240-22.030 (5) (B) 1.B**

**B. The forecasts of the number of units for each major class shall be compared to historical trends. Significant differences between the forecasts and long-term and recent trends shall be analyzed and explained.**

Forecasts of the number of units for each subclass are provided below. It should be noted that DtD customer counts should be excluded in calculating total number of customers for AmerenUE as it would result in double-counting.

Table (5) (B)-14: Residential customer forecast

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

Table (5) (B)-15: Commercial SGS customer forecast

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-16:** Commercial LGS customer forecast

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-17:** Commercial SPS customer forecast

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-18:** Commercial LPS customer forecast

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-19:** Industrial SGS customer forecast

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-20:** Industrial LGS customer forecast

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-21:** Industrial SPS customer forecast

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |



**Table (5) (B)-22:** Industrial LPS customer forecast

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-23:** DtD customer forecast

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

**Table (5) (B)-24: SLPA customer forecast**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Change |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |        |

## **CSR 240-22.030 (5) (B) 2.A**

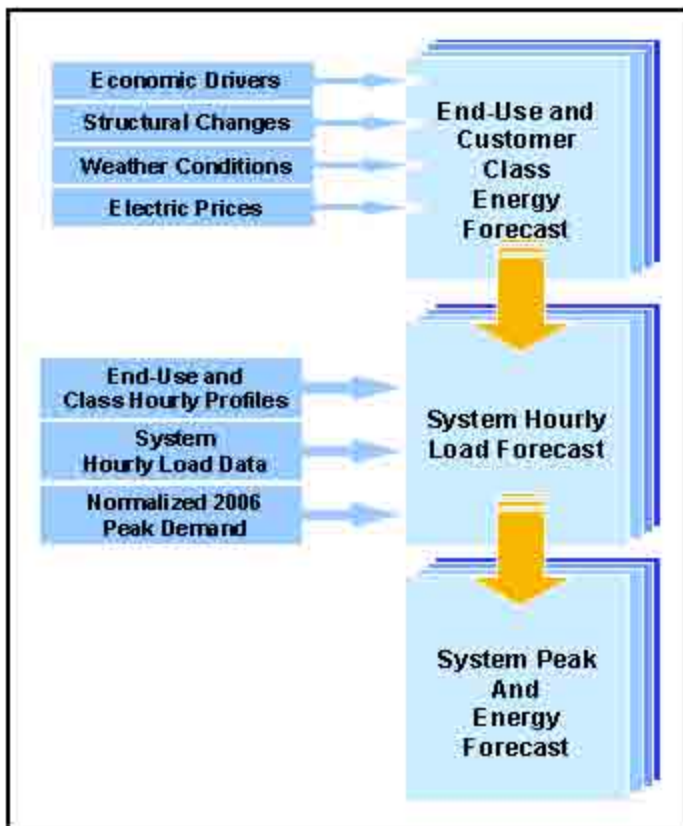
**2. Use per unit forecast.** The utility's forecast of monthly energy usage per unit and seasonal peak demands per unit for each major class shall be based on the analysis described in section (3).

**A.** The forecasts of the driver variables used in the utility's sales and customer forecast models shall be specified. AmerenUE will perform the residential analysis on a use per unit and the non-residential analyses on a total monthly class kWh basis. AmerenUE will document how the forecast has taken into account the effects of real prices of electricity, real prices of competitive energy sources, real incomes and other relevant economic and demographic factors.

The forecasts of the driver variables are provided in 22.030 (5) (B) 1.A.

The forecast approach AmerenUE employs is designed to capture the impact of structural, economic conditions, and prices on long-term system load and peak demand. The energy forecast is derived using monthly historical billed sales, converted into calendar month forecast and fed into the peak forecasting process. The peak demand forecast is developed using a bottom-up approach. This entails calculating a long-term system hourly load forecast by adding up underlying customer class and end-use hourly load forecasts. Customer class and end-use (for the residential class only) hourly load forecasts are generated by combining customer class and end-use energy forecasts with customer class and end-use hourly load profiles. The hourly class profiles are estimated from historical hourly load research data. MetrixLT, Itron's load modeling software application, is used for constructing the long-term hourly load forecast.

The build-up approach allows us to capture the impact of class load diversity and underlying differences in class energy growth on system demand. The residential hourly load is developed from the end-use level; forecasted heating, cooling, and other use energy is combined with estimated heating, cooling, and other use hourly load profile.



## Energy Forecasting Methodology

### Residential SAE Model

Residential sales have been modeled on a use-per-unit basis using SAE modeling approach. An SAE modeling approach entails constructing end-use variables that include end-use saturation and efficiency trends as well as economic, price, and weather impacts. The SAE specification allows us to directly capture the impact of improving end-use efficiency and end-use saturation trends on class sales. The process entails constructing end-use variables (i.e., XHeat, XCool, and XOther) and using these variables in estimated average use regression models as shown below:

$$AvgUse_m = a + b_1 \times XHeat_m + b_2 \times XCool_m + b_3 \times XOther_m + \varepsilon_m$$

The objective is to construct generalized end-use variables that approximate monthly end-use kWh requirements. The constructed end-use variables have two components – an index variable that captures change in end-use saturation, stock efficiency, and improvements in thermal shell integrity (e.g., HeatIndex), and a variable that reflects short-term utilization of this stock (e.g., HeatUse). [REDACTED]  
[REDACTED] XHeat, for example, is calculated as:



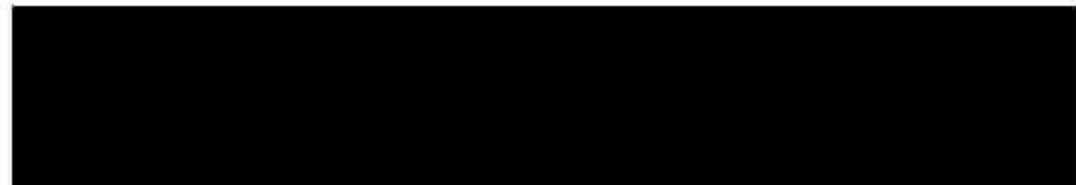
The heat index is a variable that captures heating end-use efficiency and saturation trends, thermal shell improvement trends, and housing square footage trends.

The index is constructed from the EIA annual end-use residential forecast for the West North Central census region. In this expression, *base* corresponds to a base year for normalizing the index. The ratio on the right is equal to 1.0 in the base year. In other years, it will be greater than one if equipment saturation levels are above their base year level. This will be counteracted by higher efficiency levels, which will drive the index downward.

The weights are defined by the estimated heating energy use per household for each equipment type in the base year.



With these weights, the *HeatIndex* value in the base year will be equal to the estimated annual heating energy use per household in that year. Variations from this value in other years will be proportional to saturation and efficiency variations around their base year values.



The economic and price drivers are incorporated into the *HeatUse* variable. This index value changes through time and across months in response to changes in weather conditions, prices, household size, and household income.

The heat index (*HeatIndex*) and heat use variable (*HeatUse*) are combined to generate the monthly heating variable *XHeat*. The constructed *XHeat* variable is an estimate of monthly heating requirement (kWh). Similar variables are constructed for cooling (*XCool*) and other end-uses (*XOther*). The monthly variation in the *XOther* variable is driven by variation in the number of billing days, lighting requirements and electricity usage for water heating and other miscellaneous electric equipment.

Residential indices were constructed by Itron. AmerenUE forecasting staff adjusted the saturation levels according to the results from Missouri Statewide Residential Lighting and Appliance Saturation and Efficiency Study.

**Table (5) (B)-25: Saturation comparison**

| Before Adjustment |       |        |       |        |       |        |       |        |       |       |       |       |       |        |        |
|-------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|--------|--------|
| Year              | EFair | HPHeat | CAC   | HPCool | RAC   | BWHeat | ECook | Ref1   | Ref2  | Frz   | Dkt   | CWask | EDry  | TV     | Light  |
| 2005              | 8.8%  | 2.6%   | 66.9% | 2.6%   | 24.7% | 29.2%  | 63.5% | 100.0% | 25.7% | 48.7% | 60.6% | 86.5% | 67.7% | 459.1% | 100.0% |
| 2006              | 8.9%  | 2.6%   | 67.7% | 2.6%   | 24.4% | 29.2%  | 63.6% | 100.0% | 25.8% | 48.8% | 61.4% | 86.6% | 67.8% | 462.7% | 100.0% |
| 2007              | 8.9%  | 2.7%   | 68.4% | 2.7%   | 24.1% | 29.2%  | 63.7% | 100.0% | 26.0% | 48.8% | 62.1% | 86.7% | 67.9% | 466.4% | 100.0% |
| 2008              | 8.9%  | 2.8%   | 69.2% | 2.8%   | 23.8% | 29.2%  | 63.8% | 100.0% | 26.2% | 48.9% | 62.9% | 86.8% | 68.0% | 470.1% | 100.0% |
| 2009              | 9.0%  | 2.8%   | 69.9% | 2.8%   | 23.5% | 29.1%  | 63.8% | 100.0% | 26.3% | 48.9% | 63.5% | 86.9% | 68.1% | 473.9% | 100.0% |
| 2010              | 9.0%  | 2.9%   | 70.6% | 2.9%   | 23.2% | 29.1%  | 63.9% | 100.0% | 26.4% | 49.0% | 64.2% | 87.0% | 68.2% | 477.6% | 100.0% |
| After Adjustment  |       |        |       |        |       |        |       |        |       |       |       |       |       |        |        |
| Year              | EFair | HPHeat | CAC   | HPCool | RAC   | BWHeat | ECook | Ref1   | Ref2  | Frz   | Dkt   | CWask | EDry  | TV     | Light  |
| 2005              | 11.7% | 4.6%   | 83.2% | 4.6%   | 8.3%  | 25.6%  | 63.5% | 100.0% | 28.4% | 53.0% | 74.7% | 89.9% | 84.5% | 459.1% | 100.0% |
| 2006              | 11.7% | 4.7%   | 84.2% | 4.7%   | 8.2%  | 25.6%  | 63.6% | 100.0% | 28.6% | 53.1% | 75.6% | 90.0% | 84.6% | 462.7% | 100.0% |
| 2007              | 11.8% | 4.8%   | 85.2% | 4.8%   | 8.1%  | 25.6%  | 63.7% | 100.0% | 28.8% | 53.2% | 76.6% | 90.1% | 84.8% | 466.4% | 100.0% |
| 2008              | 11.8% | 5.0%   | 86.1% | 5.0%   | 8.0%  | 25.6%  | 63.8% | 100.0% | 28.9% | 53.2% | 77.4% | 90.2% | 84.9% | 470.1% | 100.0% |
| 2009              | 11.9% | 5.1%   | 87.0% | 5.1%   | 7.9%  | 25.5%  | 63.8% | 100.0% | 29.1% | 53.3% | 78.2% | 90.3% | 85.0% | 473.9% | 100.0% |
| 2010              | 11.9% | 5.2%   | 87.9% | 5.2%   | 7.8%  | 25.5%  | 63.9% | 100.0% | 29.2% | 53.3% | 79.1% | 90.4% | 85.1% | 477.6% | 100.0% |

### Commercial SAE Model

The SAE modeling framework defines energy use in commercial sector ( $USE_{y,m}$ ) in year (y) and month (m) as the sum of energy used by heating equipment ( $Heat_{y,m}$ ), cooling equipment ( $Cool_{y,m}$ ) and other equipment ( $Other_{y,m}$ ).

$$Use_{y,m} = a + b_1 \times XHeat_{y,m} + b_2 \times XCool_{y,m} + b_3 \times XOther_{y,m} + \varepsilon_{y,m}$$

As presented in the residential SAE model section, energy use by space heating systems depends on heating degree days, heating equipment share levels, heating equipment operating efficiencies, billing days, commercial output, and energy price.



where  $XHeat_{y,m}$  is estimated heating energy use in year (y) and month (m),  $HeatIndex_y$  is the annual index of heating equipment, and  $HeatUse_{y,m}$  is the monthly usage multiplier. The  $HeatIndex$  is composed of electric space heating saturation levels normalized by operating efficiency levels. The index will change over time with changes in equipment saturations ( $Sat$ ) and operating efficiencies ( $Eff$ ). Formally, the equipment index is defined as:

A large black rectangular box redacting the equation that defines the equipment index.

The ratio to the right of the equation will be greater than the base year value if equipment saturation levels are above their base level. This will be counteracted by higher efficiency levels, which will drive the index downward. The average space heating intensity is given in energy sales for space heating per square feet area.

Heating system usage levels are impacted on a monthly basis by several factors, including weather, commercial level economic activity, prices and billing days. Since the heating degree days used in these models are in revenue month cycle, billing degree days is not used as a variable. The estimates for space heating equipment usage levels are computed as follows:

A large black rectangular box redacting the equation that shows how heating system usage levels are computed.

By construction, the  $HeatUse_{y,m}$  variable has an annual sum that is close to one in the base year. The  $HDD$  term serves to allocate annual values to months of the year. The remaining terms average to one in the base year. In other years, the values will reflect changes in the economic driver changes.

The explanatory variables for cooling and other loads are constructed in a similar manner. The difference in constructing  $XOther$  is that there is no degree-day in the equations; monthly variations are introduced by monthly multipliers for electric water-heating, lighting and number of billing days.

“Price” in the above equations is the 12-month moving average of the realized prices in real terms. For each subclass, total revenues for that class are divided by the total kWh used and, then, are deflated by the GDP deflator to get the real prices. Finally, average of 12 months is taken to get the price trend. Real prices of competitive resources have not been included in the models.

All classes other than wholesale and Noranda were modeled on a revenue month basis. Calendar month sales forecast were obtained by simulating the models with calendar month degree-days and calendar days. Wholesale and Noranda classes were modeled on a calendar month basis and revenue month sales forecasts were obtained by simulating the models with revenue month degree-days and/or number of billing-days. Energy forecast model specifications and results are shown below:

#### Residential SAE Model (UE Res.NDM)

Residential sales were modeled on a use-per-customer basis, the resulting forecast was multiplied by the number of customers forecast to estimated the total

$$\text{ResUPC}_{y,m} = C + b_1 \times X\text{Heat}_{y,m} + b_2 \times X\text{Cool} + b_3 \times X\text{Other} + b_4 \times \text{Jan} + b_5 \times \text{Mar} + b_6 \times \text{Apr} + b_7 \times \text{May} + b_8 \times \text{Jul} + b_9 \times \text{Aug} + b_{10} \times \text{Oct} + b_{11} \times \text{Nov} + b_{12} \times \text{Sep} + b_{13} \times \text{AR}(1) + \varepsilon_{y,m}$$

where  $X\text{Heat}_{y,m}$  is the estimated heating use for year (y) and month (m)

$X\text{Cool}_{y,m}$  is the estimated cooling use for year (y) and month (m)

$X\text{Other}_{y,m}$  is the estimated other use for year (y) and month (m)

Jan is a variable equal to 1 for only January

Mar is a variable equal to 1 for only March

Apr is a variable equal to 1 for only April

May is a variable equal to 1 for only May

July is a variable equal to 1 for only July

Aug is a variable equal to 1 for only August

Oct is a variable equal to 1 for only October



Nov is a variable equal to 1 for only November

Sep is a variable equal to 1 for only September

AR(1) is the first order autoregressive variable for the error term

| Variable          | Coefficient | StdErr | T-Stat | P-Value |
|-------------------|-------------|--------|--------|---------|
| CONST             | 0.0769      | 0.0468 | 1.64   | 10.30%  |
| ResRevVars.XHeat  | 0.0017      | 0.0001 | 32.89  | 0.00%   |
| ResRevVars.XCool  | 0.0008      | 0.0000 | 29.17  | 0.00%   |
| ResRevVars.XOther | 0.0003      | 0.0000 | 11.06  | 0.00%   |
| BinaryVars.Jan    | 0.0235      | 0.0101 | 2.33   | 2.14%   |
| BinaryVars.Mar    | -0.0201     | 0.0087 | -2.32  | 2.20%   |
| BinaryVars.Apr    | -0.0490     | 0.0102 | -4.81  | 0.00%   |
| BinaryVars.May    | -0.0549     | 0.0103 | -5.33  | 0.00%   |
| BinaryVars.Jul    | 0.0762      | 0.0156 | 4.89   | 0.00%   |
| BinaryVars.Aug    | 0.0930      | 0.0185 | 5.02   | 0.00%   |
| BinaryVars.Oct    | -0.0272     | 0.0111 | -2.46  | 1.54%   |
| BinaryVars.Nov    | -0.0511     | 0.0104 | -4.90  | 0.00%   |
| BinaryVars.Sep    | 0.0587      | 0.0154 | 3.81   | 0.02%   |
| AR(1)             | 0.3030      | 0.0848 | 3.57   | 0.05%   |

| Regression Statistics     |          |
|---------------------------|----------|
| Iterations                | 46       |
| Adjusted Observations     | 137      |
| Deg. of Freedom for Error | 116      |
| R-Squared                 | 0.836    |
| Adjusted R-Squared        | 0.808    |
| Durbin-Watson Statistic   | 2.084    |
| Durbin-H Statistic        | #NA      |
| AIC                       | 19.46    |
| BIC                       | 19.91    |
| F-Statistic               | 28.20    |
| Prob (F-Statistic)        | 0.00     |
| Log-Likelihood            | -1495.4  |
| Model Sum of Squares      | 1.46E+11 |
| Sum of Squared Errors     | 2.85E+10 |
| Mean Squared Error        | 2.46E+08 |
| Std. Error of Regression  | 15675.67 |
| Mean Abs. Dev. (MAD)      | 10646.06 |
| Mean Abs. % Err. (MAPE)   | 2.16%    |
| Ljung-Box Statistic       | 22.66    |
| Prob (Ljung-Box)          | 0.5399   |

Commercial SGS SAE Model (UE\_Com\_NDM)

$$\begin{aligned} \text{SGSSales}_{y,m} = & C + b_1 \times \text{XHeat}_{y,m} + b_2 \times \text{XCool} + b_3 \times \text{XOther} + b_4 \times \text{Feb} + b_5 \times \text{Mar} + b_6 \\ & \times \text{Apr} + b_7 \times \text{May} + b_8 \times \text{Jun} + b_9 \times \text{Jul} + b_{10} \times \text{Aug} + b_{11} \times \text{Sep} + b_{12} \times \text{Oct} + b_{13} \times \text{Nov} + \\ & b_{14} \times \text{Apr}_{99} + b_{15} \times \text{May}_{99} + b_{16} \times \text{Jan}_{00} + b_{17} \times \text{Mar}_{00} + b_{18} \times \text{Jun}_{00} + b_{19} \times \\ & \text{Aug}_{01} + b_{20} \times \text{May}_{02} + b_{21} \times \text{Jun}_{02} + b_{22} \times \text{Aug}_{02} + b_{23} \times \text{Nov}_{02} + b_{24} \times \text{Dec}_{02} + \\ & b_{25} \times \text{Jan}_{03} + b_{26} \times \text{Mar}_{03} + b_{27} \times \text{Mar}_{96} + b_{28} \times \text{Dec}_{98} + b_{29} \times \text{Jun}_{99} + b_{30} \times \text{Feb}_{05} \\ & + b_{31} \text{AR}(1) + \varepsilon_{y,m} \end{aligned}$$

where  $\text{XHeat}_{y,m}$  is the estimated heating use for year (y) and month (m)

$\text{XCool}_{y,m}$  is the estimated cooling use for year (y) and month (m)

$\text{XOther}_{y,m}$  is the estimated other use for year (y) and month (m)

Feb is a variable equal to 1 for only February

Mar is a variable equal to 1 for only March

Apr is a variable equal to 1 for only April

May is a variable equal to 1 for only May

Jun is a variable equal to 1 for only June

Jul is a variable equal to 1 for only July

Aug is a variable equal to 1 for only August

Sep is a variable equal to 1 for only September

Oct is a variable equal to 1 for only October

Nov is a variable equal to 1 for only November

Apr<sub>99</sub> is a variable equal to 1 for only April 1999

May<sub>99</sub> is a variable equal to 1 for only May 1999

Jan<sub>00</sub> is a variable equal to 1 for only January 2000

Mar<sub>00</sub> is a variable equal to 1 for only March 2000

Jun<sub>00</sub> is a variable equal to 1 for only June 2000

Aug<sub>01</sub> is a variable equal to 1 for only August 2001

May<sub>02</sub> is a variable equal to 1 for only May 2002

Jun<sub>02</sub> is a variable equal to 1 for only June 2002

Aug<sub>02</sub> is a variable equal to 1 for only August 2002

Nov\_02 is a variable equal to 1 for only November 2002

Dec\_02 is a variable equal to 1 for only December 2002

Jan\_03 is a variable equal to 1 for only January 2003

Mar\_03 is a variable equal to 1 for only March 2003

Mar\_96 is a variable equal to 1 for only March 1996

Dec\_98 is a variable equal to 1 for only December 1998

Jun\_99 is a variable equal to 1 for only June 1999

Feb\_05 is a variable equal to 1 for only February 2005

AR(1) is the first order autoregressive variable for the error term

| Variable               | Coefficient | StdErr   | T-Stat  | P-Value |
|------------------------|-------------|----------|---------|---------|
| Com_RevVars.XHeat_SGS  | 1.31        | 0.11     | 11.77   | 0.00%   |
| Com_RevVars.XCool_SGS  | 0.55        | 0.04     | 12.74   | 0.00%   |
| Com_RevVars.XOther_SGS | 0.44        | 0.01     | 33.65   | 0.00%   |
| BinaryVars.Feb         | 16,083      | 2,550    | 6.31    | 0.00%   |
| BinaryVars.Mar         | 12,631      | 2,810    | 4.50    | 0.00%   |
| BinaryVars.Apr         | 13,107      | 3,626    | 3.62    | 0.05%   |
| BinaryVars.May         | 27,458      | 4,616    | 5.95    | 0.00%   |
| BinaryVars.Jun         | 49,904      | 5,962    | 8.37    | 0.00%   |
| BinaryVars.Jul         | 57,694      | 8,253    | 6.99    | 0.00%   |
| BinaryVars.Aug         | 57,396      | 8,597    | 6.68    | 0.00%   |
| BinaryVars.Sep         | 50,060      | 7,839    | 6.39    | 0.00%   |
| BinaryVars.Oct         | 41,761      | 4,980    | 8.39    | 0.00%   |
| BinaryVars.Nov         | 14,322      | 3,779    | 3.79    | 0.03%   |
| BinaryVars.Apr_99      | 26,701      | 7,575    | 3.53    | 0.06%   |
| BinaryVars.May_99      | 50,997      | 7,817    | 6.524   | 0.00%   |
| BinaryVars.Jan_00      | 51,512      | 7,118    | 7.236   | 0.00%   |
| BinaryVars.Mar_00      | (21,720)    | 7,409    | -2.932  | 0.42%   |
| BinaryVars.Jun_00      | 16,606      | 7,316    | 2.27    | 2.53%   |
| BinaryVars.Aug_01      | (22,492)    | 7,514    | -2.993  | 0.35%   |
| BinaryVars.May_02      | 41,039      | 7,821    | 5.247   | 0.00%   |
| BinaryVars.Jun_02      | (73,123)    | 7,672    | -9.531  | 0.00%   |
| BinaryVars.Aug_02      | 39,558      | 7,527    | 5.255   | 0.00%   |
| BinaryVars.Nov_02      | 113,311     | 7,642    | 14.828  | 0.00%   |
| BinaryVars.Dec_02      | (95,448)    | 7,724    | -12.357 | 0.00%   |
| BinaryVars.Jan_03      | (51,489)    | 7,548    | -6.822  | 0.00%   |
| BinaryVars.Mar_03      | 33,267      | 7,379    | 4.508   | 0.00%   |
| BinaryVars.Mar_96      | 30,844      | 7,397    | 4.17    | 0.01%   |
| BinaryVars.Dec_98      | 29,984      | 7,488    | 4.004   | 0.01%   |
| BinaryVars.Jun_99      | 15,176      | 7,630    | 1.989   | 4.94%   |
| BinaryVars.Feb_05      | 20,621.80   | 7,269.66 | 2.837   | 0.55%   |
| AR(1)                  | 0.728       | 0.075    | 9.682   | 0.00%   |

| Regression Statistics     |          |
|---------------------------|----------|
| Iterations                | 19       |
| Adjusted Observations     | 137      |
| Deg. of Freedom for Error | 105      |
| R-Squared                 | 0.972    |
| Adjusted R-Squared        | 0.964    |
| Durbin-Watson Statistic   | 2.074    |
| Durbin-H Statistic        | #NA      |
| AIC                       | 17.999   |
| BIC                       | 18.68    |
| F-Statistic               | 113.17   |
| Prob (F-Statistic)        | 0.00     |
| Log-Likelihood            | -1385.12 |
| Model Sum of Squares      | 1.94E+11 |
| Sum of Squared Errors     | 5.63E+09 |
| Mean Squared Error        | 53624632 |
| Std. Error of Regression  | 7322.88  |
| Mean Abs. Dev. (MAD)      | 4844.94  |
| Mean Abs. % Err. (MAPE)   | 1.83%    |
| Ljung-Box Statistic       | 22.78    |
| Prob (Ljung-Box)          | 0.5329   |

#### Commercial LGSSAE Model (UE Com.NDM)

$$\text{LGSSales}_{y,m} = C + b_1 \times \text{XHeat}_{y,m} + b_2 \times \text{XCool} + b_3 \times \text{XOther} + b_4 \times \text{Dec\_98} + b_5 \times \text{Apr} \\ + b_6 \times \text{Nov} + b_7 \times \text{Aug\_01} + b_8 \times \text{Jun\_01} + b_9 \times \text{Oct\_03} + b_{10} \times \text{TrendVar}_{y,m} + b_{11} \times \\ \text{Mar\_02} + \varepsilon_{y,m}$$

where  $\text{XHeat}_{y,m}$  is the estimated heating use for year (y) and month (m)

$\text{XCool}_{y,m}$  is the estimated cooling use for year (y) and month (m)

$\text{XOther}_{y,m}$  is the estimated other use for year (y) and month (m)

Apr is a variable equal to 1 for only April

Nov is a variable equal to 1 for only November

Aug\_01 is a variable equal to 1 for only August 2001

Jun\_01 is a variable equal to 1 for only June 2001

Oct\_03 is a variable equal to 1 for only October 2003

$\text{TrendVar}_{y,m}$  is a variable that captures positive or negative growth

Mar\_02 is a variable equal to 1 for only March 2002



| Variable               | Coefficient | StdErr | T-Stat | P-Value |
|------------------------|-------------|--------|--------|---------|
| CONST                  | 163,288.61  | 27,006 | 6.05   | 0.00%   |
| Com_RevVars.XHeat_LGS  | 498.28      | 127    | 3.92   | 0.01%   |
| Com_RevVars.XCool_LGS  | 593.46      | 32     | 18.38  | 0.00%   |
| Com_RevVars.XOther_LGS | 281         | 62     | 4.54   | 0.00%   |
| BinaryVars.Dec_98      | (133,327)   | 21,499 | -6.20  | 0.00%   |
| BinaryVars.Apr         | (18,492)    | 6,696  | -2.76  | 0.66%   |
| BinaryVars.Nov         | (16,956)    | 7,212  | -2.35  | 2.03%   |
| BinaryVars.Aug_01      | 37,088      | 21,300 | 1.74   | 8.41%   |
| BinaryVars.Jun_01      | 35,525      | 20,919 | 1.70   | 9.20%   |
| BinaryVars.Oct_03      | 50,019      | 21,124 | 2.37   | 1.94%   |
| BinaryVars.TrendVar    | 10,541      | 760    | 13.86  | 0.00%   |
| BinaryVars.Mar_02      | (92,046)    | 21,003 | -4.38  | 0.00%   |

| Regression Statistics     |          |
|---------------------------|----------|
| Iterations                | 1        |
| Adjusted Observations     | 138      |
| Deg. of Freedom for Error | 126      |
| R-Squared                 | 0.916    |
| Adjusted R-Squared        | 0.909    |
| Durbin-Watson Statistic   | 1.874    |
| Durbin-H Statistic        | #NA      |
| AIC                       | 19.96    |
| BIC                       | 20.22    |
| F-Statistic               | 125.11   |
| Prob (F-Statistic)        | 0.00     |
| Log-Likelihood            | -1561.05 |
| Model Sum of Squares      | 5.9E+11  |
| Sum of Squared Errors     | 5.41E+10 |
| Mean Squared Error        | 4.29E+08 |
| Std. Error of Regression  | 20713.41 |
| Mean Abs. Dev. (MAD)      | 15138.05 |
| Mean Abs. % Err. (MAPE)   | 3.14%    |
| Ljung-Box Statistic       | 44.29    |
| Prob (Ljung-Box)          | 0.01     |

As part of the Stipulation and Agreement, AmerenUE agreed to show the weather impact on energy usage in a manner that can be separated from the non-heating, ventilation and air conditioning appliances used by the customers in its SAE models. Since the SAE indices are constructed by interacting weather, economic, saturation and efficiency data, the coefficients on the models do not directly tell the impact of weather per degree-day. However, it is possible to show the weather impact after the model is done through adding extra transformation tables. Below is the expected change in energy

usage per heating/cooling degree-day for residential, commercial SGS and commercial LGS classes where SAE modeling approach was used.

Change in sales per degree-day

|      | Residential |            | ComSGS     |            | ComLGS     |            |
|------|-------------|------------|------------|------------|------------|------------|
|      | HDD Impact  | CDD Impact | HDD Impact | CDD Impact | HDD Impact | CDD Impact |
| 1995 | 491         | 1620       | 67         | 200        | 36         | 303        |
| 1996 | 500         | 1633       | 69         | 208        | 37         | 314        |
| 1997 | 509         | 1649       | 75         | 225        | 40         | 338        |
| 1998 | 518         | 1664       | 77         | 230        | 40         | 339        |
| 1999 | 525         | 1672       | 79         | 235        | 40         | 343        |
| 2000 | 533         | 1685       | 80         | 239        | 41         | 349        |
| 2001 | 541         | 1698       | 80         | 241        | 41         | 353        |
| 2002 | 551         | 1707       | 80         | 240        | 41         | 354        |
| 2003 | 564         | 1736       | 80         | 240        | 41         | 354        |
| 2004 | 576         | 1742       | 80         | 240        | 41         | 355        |
| 2005 | 589         | 1788       | 81         | 246        | 42         | 360        |
| 2006 | 601         | 1802       | 83         | 251        | 42         | 366        |
| 2007 |             |            |            |            |            |            |
| 2008 |             |            |            |            |            |            |
| 2009 |             |            |            |            |            |            |
| 2010 |             |            |            |            |            |            |
| 2011 |             |            |            |            |            |            |
| 2012 |             |            |            |            |            |            |
| 2013 |             |            |            |            |            |            |
| 2014 |             |            |            |            |            |            |
| 2015 |             |            |            |            |            |            |
| 2016 |             |            |            |            |            |            |
| 2017 |             |            |            |            |            |            |
| 2018 |             |            |            |            |            |            |
| 2019 |             |            |            |            |            |            |
| 2020 |             |            |            |            |            |            |
| 2021 |             |            |            |            |            |            |
| 2022 |             |            |            |            |            |            |
| 2023 |             |            |            |            |            |            |
| 2024 |             |            |            |            |            |            |
| 2025 |             |            |            |            |            |            |
| 2026 |             |            |            |            |            |            |
| 2027 |             |            |            |            |            |            |
| 2028 |             |            |            |            |            |            |
| 2029 |             |            |            |            |            |            |
| 2030 |             |            |            |            |            |            |

Commercial SPS Model (UE\_Com\_NDM)

$$SPSSales_{y,m} = C + b_1 \times CDD_{y,m} + b_2 \times Jan + b_3 \times Oct + b_4 \times Oct\_01 + b_5 \times Mar\_02 + b_6 \times Apr\_02 + b_7 \times Nov\_03 + b_8 \times Feb\_04 + b_9 \times TrendVar_{y,m} + b_{10} \times GDPRetailTrade_{y,m} + \varepsilon_{y,m}$$

where  $CDD_{y,m}$  is the number of cooling degree days based on 65° in year (y) and month (m)

Jan is a variable equal to 1 for only January

Oct is a variable equal to 1 for only October

Oct\_01 is a variable equal to 1 for only October 2001

Mar\_02 is a variable equal to 1 for only March 2002

Apr\_02 is a variable equal to 1 for only April 2002

Nov\_03 is a variable equal to 1 for only November 2003

Feb\_04 is a variable equal to 1 for only February 2004

TrendVar<sub>y,m</sub> is a variable that captures positive or negative growth

GDPRetailTrade<sub>y,m</sub> is the retail trade output for AmerenUE service territory for year (y) and month (m)

| Variable                 | Coefficient | StdErr | T-Stat | P-Value |
|--------------------------|-------------|--------|--------|---------|
| CONST                    | 78,166.86   | 27,552 | 2.84   | 0.67 %  |
| RevWthrVars.CDD          | 121.02      | 5      | 25.75  | 0.00 %  |
| BinaryVars.Jan           | 23,908.13   | 2,778  | 8.61   | 0.00 %  |
| BinaryVars.Oct           | 18,530      | 2,971  | 6.24   | 0.00 %  |
| BinaryVars.Oct_01        | (14,346)    | 6,615  | -2.17  | 3.51 %  |
| BinaryVars.Mar_02        | 23,769      | 5,911  | 4.02   | 0.02 %  |
| BinaryVars.Apr_02        | (14,979)    | 5,872  | -2.55  | 1.40 %  |
| BinaryVars.Nov_03        | 18,491      | 5,851  | 3.16   | 0.27 %  |
| BinaryVars.Feb_04        | 18,548      | 5,879  | 3.16   | 0.28 %  |
| BinaryVars.TrendVar      | (4,264)     | 1,232  | -3.46  | 0.11 %  |
| Economics.GDPRetailTrade | 20          | 5      | 4.25   | 0.01 %  |

| Regression Statistics     |          |
|---------------------------|----------|
| Iterations                | 1        |
| Adjusted Observations     | 61       |
| Deg. of Freedom for Error | 50       |
| R-Squared                 | 0.938    |
| Adjusted R-Squared        | 0.926    |
| Durbin-Watson Statistic   | 2.153    |
| Durbin-H Statistic        | #NA      |
| AIC                       | 17.45    |
| BIC                       | 17.83    |
| F-Statistic               | 75.65    |
| Prob (F-Statistic)        | 0        |
| Log-Likelihood            | -597.78  |
| Model Sum of Squares      | 2.43E+10 |
| Sum of Squared Errors     | 1.61E+09 |
| Mean Squared Error        | 32187970 |
| Std. Error of Regression  | 5673.44  |
| Mean Abs. Dev. (MAD)      | 4080     |
| Mean Abs. % Err. (MAPE)   | 1.88%    |
| Ljung-Box Statistic       | 30.75    |
| Prob (Ljung-Box)          | 0.16     |

#### Commercial LPS Model (UE Com.NDM)

$$\text{LPSSales}_{y,m} = b_1 \times \text{CDD}_{y,m} + b_2 \times \text{Summer05on} + b_3 \times \text{Mar} + b_4 \times \text{Sep} + b_5 \times \text{Oct} + b_6 \times \text{Nov} + b_7 \times \text{Jan} + b_8 \times \text{EmpRetailTrade}_{y,m} + b_9 \times \text{TrendVar}_{y,m} + b_{10} \times \text{AR}(1) + b_{11} \times \text{MA}(1) + \varepsilon_{y,m}$$

where  $\text{CDD}_{y,m}$  is the number of cooling degree days based on 65° in year (y) and month (m)

Summer05on is a variable equal to 1 for summer months (Jun-Sep) in and after 2005

Mar is a variable equal to 1 for only March

Sep is a variable equal to 1 for only September

Oct is a variable equal to 1 for only October

Nov is a variable equal to 1 for only November

Jan is a variable equal to 1 for only January

$\text{EmpRetailTrade}_{y,m}$  is the retail trade employment for AmerenUE service territory for year (y) and month (m)



TrendVar<sub>y,m</sub> is a variable that captures positive or negative growth

AR(1) is the first order autoregressive variable for the error term

MA(1) is the first order moving average variable for the error term

| Variable                 | Coefficient | StdErr | T-Stat | P-Value |
|--------------------------|-------------|--------|--------|---------|
| RevWthrVars.CDD          | 36.68       | 4      | 9.38   | 0.00 %  |
| BinaryVars.Summer05on    | 9,684.18    | 2,204  | 4.39   | 0.01 %  |
| BinaryVars.Mar           | (6,349.76)  | 1,814  | -3.50  | 0.10 %  |
| BinaryVars.Sep           | 4,523       | 2,020  | 2.24   | 2.95 %  |
| BinaryVars.Oct           | 5,926       | 1,896  | 3.13   | 0.29 %  |
| BinaryVars.Nov           | 5,486       | 1,913  | 2.87   | 0.59 %  |
| BinaryVars.Jan           | 4,759       | 1,839  | 2.59   | 1.25 %  |
| Economics.EmpRetailTrade | 66          | 26     | 2.58   | 1.29 %  |
| BinaryVars.TrendVar      | 5,140       | 353    | 14.55  | 0.00 %  |
| AR(1)                    | (0.76)      | 0      | -4.40  | 0.01 %  |
| MA(1)                    | 0.80        | 0      | 4.45   | 0.00 %  |

| Regression Statistics     |          |
|---------------------------|----------|
| Iterations                | 30       |
| Adjusted Observations     | 65       |
| Deg. of Freedom for Error | 54       |
| R-Squared                 | 0.922    |
| Adjusted R-Squared        | 0.908    |
| Durbin-Watson Statistic   | 2.018    |
| Durbin-H Statistic        | #NA      |
| AIC                       | 16.70    |
| BIC                       | 17.06    |
| F-Statistic               | 58.40    |
| Prob (F-Statistic)        | 0        |
| Log-Likelihood            | -614.24  |
| Model Sum of Squares      | 9.82E+09 |
| Sum of Squared Errors     | 8.25E+08 |
| Mean Squared Error        | 15285320 |
| Std. Error of Regression  | 3909.64  |
| Mean Abs. Dev. (MAD)      | 2949     |
| Mean Abs. % Err. (MAPE)   | 3.26 %   |
| Ljung-Box Statistic       | 19.62    |
| Prob (Ljung-Box)          | 0.72     |

#### DtD Sales Model (UE Com.NDM)

$$\text{DtDSales}_{y,m} = C + b_1 \times \text{Feb} + b_2 \times \text{Mar} + b_3 \times \text{Apr} + b_4 \times \text{May} + b_5 \times \text{Jun} + b_6 \times \text{Jul} + b_7 \times \text{Aug} + b_8 \times \text{Sep} + b_9 \times \text{Oct} + b_{10} \times \text{Nov} + b_{11} \times \text{May\_02} + b_{12} \times \text{Jan} + b_{13} \times \text{GDPTotal}_{y,m} + \varepsilon_{y,m}$$

where Feb is a variable equal to 1 for only February

Mar is a variable equal to 1 for only March

Apr is a variable equal to 1 for only April

May is a variable equal to 1 for only May

Jun is a variable equal to 1 for only June

Jul is a variable equal to 1 for only July

Aug is a variable equal to 1 for only August

Sep is a variable equal to 1 for only September

Oct is a variable equal to 1 for only October

Nov is a variable equal to 1 for only November

May\_02 is a variable equal to 1 for only May 2002

Jan is a variable equal to 1 for only January

GDPTotal<sub>y,m</sub> is the total GDP for AmerenUE service territory for year (y) and month (m)

| Variable           | Coefficient | StdErr | T-Stat | P-Value |
|--------------------|-------------|--------|--------|---------|
| CONST              | 8,502.11    | 621    | 13.70  | 0.00%   |
| BinaryVars.Feb     | (1,010.00)  | 80     | -12.62 | 0.00%   |
| BinaryVars.Mar     | (1,670.42)  | 76     | -22.00 | 0.00%   |
| BinaryVars.Apr     | (2,590)     | 76     | -34.12 | 0.00%   |
| BinaryVars.May     | (3,396)     | 80     | -42.36 | 0.00%   |
| BinaryVars.Jun     | (3,674)     | 76     | -48.41 | 0.00%   |
| BinaryVars.Jul     | (3,839)     | 80     | -47.88 | 0.00%   |
| BinaryVars.Aug     | (3,718)     | 80     | -46.41 | 0.00%   |
| BinaryVars.Sep     | (2,858)     | 80     | -35.70 | 0.00%   |
| BinaryVars.Oct     | (2,210.85)  | 80     | -27.63 | 0.00%   |
| BinaryVars.Nov     | (1,382.15)  | 80     | -17.28 | 0.00%   |
| BinaryVars.May_02  | (495)       | 130    | -3.82  | 0.05%   |
| BinaryVars.Jan     | 535         | 80     | 6.68   | 0.00%   |
| Economics.GDPTotal | 0           | 0      | 3.21   | 0.28%   |

| Regression Statistics     |          |
|---------------------------|----------|
| Iterations                | 1        |
| Adjusted Observations     | 52       |
| Deg. of Freedom for Error | 38       |
| R-Squared                 | 0.995    |
| Adjusted R-Squared        | 0.994    |
| Durbin-Watson Statistic   | 1.469    |
| Durbin-H Statistic        | #NA      |
| AIC                       | 9.68     |
| BIC                       | 10.21    |
| F-Statistic               | 610.78   |
| Prob (F-Statistic)        | 0        |
| Log-Likelihood            | -311.52  |
| Model Sum of Squares      | 1.02E+08 |
| Sum of Squared Errors     | 486365   |
| Mean Squared Error        | 12799.09 |
| Std. Error of Regression  | 113.13   |
| Mean Abs. Dev. (MAD)      | 69       |
| Mean Abs. % Err. (MAPE)   | 0.84%    |
| Ljung-Box Statistic       | 31.61    |
| Prob (Ljung-Box)          | 0.14     |

#### SLPA Sales Model (UE Com NDM)

$$\text{SLPASales}_{y,m} = b_{12} \times \text{Jan} + b_1 \times \text{Feb} + b_2 \times \text{Mar} + b_3 \times \text{Apr} + b_4 \times \text{May} + b_5 \times \text{Jun} + b_6 \times \text{Jul} + b_7 \times \text{Aug} + b_8 \times \text{Sep} + b_9 \times \text{Oct} + b_{10} \times \text{Nov} + b_{11} \times \text{GDPMult}_{y,m} + b_{13} \times \text{Nov05} + b_{13} \times \text{Feb06} + \varepsilon_{y,m}$$

where Jan is a variable equal to 1 for only January

Feb is a variable equal to 1 for only February

Mar is a variable equal to 1 for only March

Apr is a variable equal to 1 for only April

May is a variable equal to 1 for only May

Jun is a variable equal to 1 for only June

Jul is a variable equal to 1 for only July

Aug is a variable equal to 1 for only August

Sep is a variable equal to 1 for only September

Oct is a variable equal to 1 for only October

Nov is a variable equal to 1 for only November

$GDP_{y,m}$  is the total GDP for AmerenUE service territory for year (y) and month (m)

transformed through income elasticity

Nov\_05 is a variable equal to 1 for only November 2005

Feb\_06 is a variable equal to 1 for only February 2006

| Variable         | Coefficient | StdErr | T-Stat | P-Value |
|------------------|-------------|--------|--------|---------|
| BinaryVars.Jan   | 931.96      | 105    | 8.85   | 0.00%   |
| BinaryVars.Feb   | (304.36)    | 114    | -2.68  | 1.13%   |
| BinaryVars.Mar   | (1,731.84)  | 105    | -16.44 | 0.00%   |
| BinaryVars.Apr   | (2,306)     | 105    | -21.87 | 0.00%   |
| BinaryVars.May   | (3,487)     | 100    | -34.92 | 0.00%   |
| BinaryVars.Jun   | (4,084)     | 100    | -40.88 | 0.00%   |
| BinaryVars.Jul   | (4,660)     | 105    | -44.34 | 0.00%   |
| BinaryVars.Aug   | (4,302)     | 105    | -40.92 | 0.00%   |
| BinaryVars.Sep   | (3,306)     | 105    | -31.44 | 0.00%   |
| BinaryVars.Oct   | (2,446.53)  | 105    | -23.26 | 0.00%   |
| BinaryVars.Nov   | (1,085.82)  | 113    | -9.57  | 0.00%   |
| EconVars.GDPMult | 124         | 1      | 176.81 | 0.00%   |
| BinaryVars.Nov05 | 5,802       | 172    | 33.74  | 0.00%   |
| BinaryVars.Feb06 | (6,173)     | 172    | -35.90 | 0.00%   |

| Regression Statistics     |          |
|---------------------------|----------|
| Iterations                | 1        |
| Adjusted Observations     | 50       |
| Deg. of Freedom for Error | 36       |
| R-Squared                 | 0.996    |
| Adjusted R-Squared        | 0.995    |
| Durbin-Watson Statistic   | 1.608    |
| Durbin-H Statistic        | #NA      |
| AIC                       | 10.24    |
| BIC                       | 10.77    |
| F-Statistic               | 692.92   |
| Prob (F-Statistic)        | 0        |
| Log-Likelihood            | -312.9   |
| Model Sum of Squares      | 2.15E+08 |
| Sum of Squared Errors     | 798377   |
| Mean Squared Error        | 22177.15 |
| Std. Error of Regression  | 148.92   |
| Mean Abs. Dev. (MAD)      | 99       |
| Mean Abs. % Err. (MAPE)   | 0.91%    |
| Ljung-Box Statistic       | 45.86    |
| Prob (Ljung-Box)          | 0.00     |

### Industrial Model (UE\_Ind.NDM)

Total industrial sales were modeled using an econometric approach. The shares of individual rate class sales within the industrial class were modeled using an exponential smoothing model for each rate class. Exponential smoothing models are like taking a moving average; however, in moving averages the past observations are weighted equally, whereas exponential smoothing models assign exponentially decreasing weights as the observations get older. In other words, recent observations are given relatively more weight in forecasting than the older observations. Applying these shares to the modeled total industrial sales yields the final forecast for the individual rate classes.

$$\begin{aligned} \text{IndSales}_{y,m} = & b_1 \times \text{Mar03\_on} + b_2 \times \text{Dec\_98} + b_3 \times \text{Jan\_99} + b_4 \times \text{May\_99} + b_5 \times \text{Nov\_99} \\ & + b_6 \times \text{Dec\_99} + b_7 \times \text{Apr\_00} + b_8 \times \text{Jan\_01} + b_9 \times \text{Feb\_01} + b_{10} \times \text{Sep\_01} + b_{11} \times \\ & \text{Mar\_02} + b_{12} \times \text{Jul\_02} + b_{13} \times \text{CDD}_{y,m} + b_{14} \times \text{EmpManu}_{y,m} + b_{15} \times \text{GDPMan}_{y,m} + b_{16} \times \\ & \text{Feb} + b_{17} \times \text{Mar} + b_{18} \times \text{Apr} + b_{19} \times \text{May} + b_{20} \times \text{AR}(1) + b_{21} \times \text{MA}(1) + \varepsilon_{y,m} \end{aligned}$$

where Mar03\_on is a variable equal to 1 for only March in and after 2003

Dec\_98 is a variable equal to 1 for only December 1998

Jan\_99 is a variable equal to 1 for only January 1999

May\_99 is a variable equal to 1 for only April 1999

Nov\_99 is a variable equal to 1 for only April 1999

Dec\_99 is a variable equal to 1 for only April 1999

Apr\_00 is a variable equal to 1 for only April 1999

Jan\_01 is a variable equal to 1 for only April 1999

Feb\_01 is a variable equal to 1 for only April 1999

Sep\_01 is a variable equal to 1 for only April 1999

Mar\_02 is a variable equal to 1 for only April 1999

Jul\_02 is a variable equal to 1 for only April 1999

CDD<sub>y,m</sub> is the estimated cooling use for year (y) and month (m)

EmpManu<sub>y,m</sub> is the manufacturing employment for AmerenUE service territory for



year (y) and month (m)

GDPMan<sub>y,m</sub> is the manufacturing output for AmerenUE service territory for year (y) and month (m)

Feb is a variable equal to 1 for only March

Mar is a variable equal to 1 for only March

Apr is a variable equal to 1 for only April

May is a variable equal to 1 for only May

AR(1) is the first order autoregressive variable for the error term

MA(1) is the first order moving average variable for the error term

| Variable            | Coefficient | StdErr | T-Stat | P-Value |
|---------------------|-------------|--------|--------|---------|
| BinaryVars.Mar03_on | (27,382.10) | 9,144  | -2.99  | 0.34%   |
| BinaryVars.Dec_98   | (49,512.72) | 14,910 | -3.32  | 0.12%   |
| BinaryVars.Jan_99   | (46,926.00) | 14,909 | -3.15  | 0.21%   |
| BinaryVars.May_99   | 86,781      | 15,271 | 5.68   | 0.00%   |
| BinaryVars.Nov_99   | (94,762)    | 14,799 | -6.40  | 0.00%   |
| BinaryVars.Dec_99   | 43,611      | 14,812 | 2.94   | 0.39%   |
| BinaryVars.Apr_00   | 41,585      | 15,186 | 2.74   | 0.72%   |
| BinaryVars.Jan_01   | 28,120      | 14,838 | 1.90   | 6.06%   |
| BinaryVars.Feb_01   | 45,710      | 15,358 | 2.98   | 0.36%   |
| BinaryVars.Sep_01   | 43,626.07   | 14,598 | 2.99   | 0.34%   |
| BinaryVars.Mar_02   | (27,478.09) | 15,480 | -1.78  | 7.86%   |
| BinaryVars.Jul_02   | (55,841)    | 14,683 | -3.80  | 0.02%   |
| RevWthrVars.CDD     | 117         | 10     | 11.90  | 0.00%   |
| Economics.EmpManu   | 2,160       | 619    | 3.49   | 0.07%   |
| Economics.GDPManu   | 3           | 4      | 0.611  | 54.25%  |
| BinaryVars.Feb      | (10,200)    | 4,767  | -2.14  | 3.45%   |
| BinaryVars.Mar      | (11,437)    | 5,898  | -1.939 | 5.50%   |
| BinaryVars.Apr      | (14,678)    | 4,859  | -3.02  | 0.31%   |
| BinaryVars.May      | (25,436)    | 4,740  | -5.366 | 0.00%   |
| AR(1)               | 1           | 0      | 82.445 | 0.00%   |
| MA(1)               | (1)         | 0      | -8.919 | 0.00%   |

| Regression Statistics     |          |
|---------------------------|----------|
| Iterations                | 46       |
| Adjusted Observations     | 137      |
| Deg. of Freedom for Error | 116      |
| R-Squared                 | 0.836    |
| Adjusted R-Squared        | 0.808    |
| Durbin-Watson Statistic   | 2.084    |
| Durbin-H Statistic        | #NA      |
| AIC                       | 19.46    |
| BIC                       | 19.91    |
| F-Statistic               | 28.20    |
| Prob (F-Statistic)        | 0        |
| Log-Likelihood            | -1495.4  |
| Model Sum of Squares      | 1.46E+11 |
| Sum of Squared Errors     | 2.85E+10 |
| Mean Squared Error        | 2.46E+08 |
| Std. Error of Regression  | 15675.67 |
| Mean Abs. Dev. (MAD)      | 10646    |
| Mean Abs. % Err. (MAPE)   | 2.16%    |
| Ljung-Box Statistic       | 22.66    |
| Prob (Ljung-Box)          | 0.54     |

#### Industrial SGS Share Model

| Variable | Coefficient |
|----------|-------------|
| Simple   | 0.18        |
| Seasonal | 0.44        |

#### Industrial LGS Share Model

| Variable | Coefficient |
|----------|-------------|
| Simple   | 0.13        |
| Seasonal | 0.30        |

#### Industrial SPS Share Model

| Variable | Coefficient |
|----------|-------------|
| Simple   | 0.24        |
| Seasonal | 0.26        |

#### Industrial LPS Share Model

| Variable | Coefficient |
|----------|-------------|
| Simple   | 0.21        |
| Seasonal | 0.25        |

| Regression Statistics     | SGS      | SPS      | LGS      | LPS       |
|---------------------------|----------|----------|----------|-----------|
| Iterations                | 1        | 1        | 1        | 1         |
| Adjusted Observations     | 136      | 136      | 136      | 136       |
| Deg. of Freedom for Error | 134      | 134      | 134      | 134       |
| R-Squared                 | 0.753    | 0.803    | 0.591    | 0.821     |
| Adjusted R-Squared        | 0.751    | 0.801    | 0.588    | 0.82      |
| AIC                       | 14.5     | 18.674   | 17.824   | 19.567    |
| BIC                       | 14.5     | 18.717   | 17.867   | 19.61     |
| F-Statistic               | 203.89   | 272.50   | 96.68    | 308.18    |
| Prob (F-Statistic)        | 0.00     | 0.00     | 0.00     | 0.00      |
| Log-Likelihood            | -1175.00 | -1460.83 | -1403.02 | -1521.56  |
| Mean Abs. Dev. (MAD)      | 921      | 7,866.94 | 4417.89  | 11,816.90 |
| Mean Abs. % Err. (MAPE)   | 6.33%    | 5.19%    | 4.12%    | 5.31%     |

#### Noranda Model (UE Ind NDM)

$$\text{Noranda}_{y,m} = b_1 \times \text{CalDays}_{y,m} + b_2 \times \text{AR}(1) + \varepsilon_{y,m}$$

where  $\text{CalDays}_{y,m}$  is the number of days in each calendar month

$\text{AR}(1)$  is the first order autoregressive variable for the error term

| Variable            | Coefficient | StdErr | T-Stat | P-Value |
|---------------------|-------------|--------|--------|---------|
| CalWthrVars.CalDays | 11,186.54   | 13     | 845.96 | 0.00%   |
| AR(1)               | 0.45        | 0      | 7.32   | 0.19%   |

| Regression Statistics     |           |
|---------------------------|-----------|
| Iterations                | 4         |
| Adjusted Observations     | 8         |
| Deg. of Freedom for Error | 6         |
| R-Squared                 | 0.998     |
| Adjusted R-Squared        | 0.998     |
| Durbin-Watson Statistic   | 2.608     |
| Durbin-H Statistic        | #NA       |
| AIC                       | 12.66     |
| BIC                       | 12.68     |
| F-Statistic               | 1856.42   |
| Prob (F-Statistic)        | 0         |
| Log-Likelihood            | -60       |
| Model Sum of Squares      | 949669891 |
| Sum of Squared Errors     | 1534678   |
| Mean Squared Error        | 255780    |
| Std. Error of Regression  | 506       |
| Mean Abs. Dev. (MAD)      | 304       |
| Mean Abs. % Err. (MAPE)   | 0.09%     |
| Ljung-Box Statistic       | 0.00      |
| Prob (Ljung-Box)          | 1.00      |



Wholesale Model (UE\_Wholesale.NDM)

$$\text{TotalWS}_{y,m} = C + b_1 \times \text{HDD}_{y,m} + b_2 \times \text{CDD}_{y,m} + b_3 \times \text{Feb} + b_4 \times \text{Apr} + b_5 \times \text{Aug} + b_6 \times \text{Nov} + b_7 \times \text{PerIncome}_{y,m} + b_8 \times \text{May00} + b_9 \times \text{Aug05} + b_{10} \times \text{AR}(1) + b_{11} \times \text{MA}(1) + \varepsilon_{y,m}$$

where  $\text{HDD}_{y,m}$  is the number of heating degree days based on 65° in year (y) and month (m)

$\text{CDD}_{y,m}$  is the number of cooling degree days based on 65° in year (y) and month (m)

Feb is a variable equal to 1 for only February

Apr is a variable equal to 1 for only April

Aug is a variable equal to 1 for only August

Nov is a variable equal to 1 for only November

$\text{PerIncome}_{y,m}$  is the personal income for AmerenUE service territory for year (y) and month (m)

May00 is a variable equal to 1 for only May 2000

Aug05 is a variable equal to 1 for only August 2005

AR(1) is the first order autoregressive variable for the error term

MA(1) is the first order moving average variable for the error term

| Variable                | Coefficient | StdErr   | T-Stat | P-Value |
|-------------------------|-------------|----------|--------|---------|
| CONST                   | 17,007.96   | 5,359    | 3.17   | 0.02%   |
| CalWthrVars.HDD         | 9.02        | 1        | 7.11   | 0.00%   |
| CalWthrVars.CDD         | 48.46       | 3        | 17.45  | 0.00%   |
| BinaryVars.Feb          | (3,866)     | 621      | -6.22  | 0.00%   |
| BinaryVars.Apr          | (2,401)     | 637      | -3.771 | 0.03%   |
| BinaryVars.Aug          | 1,202       | 619      | 1.942  | 5.59%   |
| BinaryVars.Nov          | (1,631)     | 607      | -2.686 | 0.89%   |
| Economics_Pro.PerIncome | 0.52        | 0.12     | 4.294  | 0.01%   |
| BinaryVars.May00        | -8554.254   | 1432.889 | -5.97  | 0.00%   |
| BinaryVars.Aug05        | 4708.737    | 1586.916 | 2.967  | 0.40%   |
| AR(1)                   | 0.107       | 0.159    | 0.673  | 50.32%  |
| MA(1)                   | 0.726       | 0.121    | 6.001  | 0.00%   |

| Regression Statistics     |            |
|---------------------------|------------|
| Iterations                | 15         |
| Adjusted Observations     | 89         |
| Deg. of Freedom for Error | 77         |
| R-Squared                 | 0.944      |
| Adjusted R-Squared        | 0.936      |
| Durbin-Watson Statistic   | 1.972      |
| Durbin-H Statistic        | #N/A       |
| AIC                       | 15.39      |
| BIC                       | 15.73      |
| F-Statistic               | 118.03     |
| Prob (F-Statistic)        | 0.00       |
| Log-Likelihood            | -790       |
| Model Sum of Squares      | 5528495829 |
| Sum of Squared Errors     | 327872635  |
| Mean Squared Error        | 4258086    |
| Std. Error of Regression  | 2064       |
| Mean Abs. Dev. (MAD)      | 1349       |
| Mean Abs. % Err. (MAPE)   | 2.63%      |
| Ljung-Box Statistic       | 12.97      |
| Prob (Ljung-Box)          | 0.97       |

Results from the forecast models are provided in 22.030 (5) (B) 2.D.

### Peak Forecast Methodology

First step in the peak forecast step is modeling hourly load profiles. Use per customer class hourly load profile models are estimated for each of the subclasses using three years of hourly load data spanning the period July 2003 to June 2006. MetrixLT, Itron's long-term load forecasting application, is then used to combine class and end-use energy forecasts with hourly load profile forecasts and to adjust these profiles for line losses.

Twenty-five equations are estimated for each profile model – a daily energy Artificial Neural Network (ANN) model and twenty-four hourly regression models. Results of the daily energy model are passed into the hourly models as independent variables. In general, the model specification is the same across the profile classes. The model specification is designed to capture the impact of weather as well as day of the week and season. Model variables include daily heating and cooling degree-days, day of the week and monthly binary variables, binary variables for the major holidays, and

interactions of these variables. To capture the non-linearity of the relationship between load and weather, model specifications include daily heating and cooling degree days for multiple splines - HDDs with bases of 65 and 50 degrees, and CDDs with bases of 65 and 70 degrees. In general, this model specification fits the load research data relatively well with adjusted hourly  $R^2$  that vary from 0.70 to 0.95 with the hourly fit varying by customer class (industrial classes tend to have lower adjusted  $R^2$ ) and by hour of the day (afternoon hours tend to have the highest adjusted  $R^2$ ).

The hourly profiles are extended through the forecast period. Final profiles reflect the calendar and normal weather conditions.

In an initial run, the forecasted profiles are fixed using the 2007 calendar. This initial run is used to estimate the monthly and seasonal peak forecasts. The reason for the initial fixed calendar run is that *MetrixLT* allocates forecasted energy to hours and peak using the class hourly profiles. If the calendar is not fixed, the allocation of energy to hours (and thus peaks) changes over time as a result of changes in the calendar. As an example, less energy is allocated to weekdays in August 2008 than in August 2007 as there is one more Saturday in August 2008. Since less energy is allocated to the 2008 week-days (more to the week-ends), the 2008 peak (which occurs on a weekday) can be lower than the 2007 peak even if the 2008 energy forecast is greater.

The fixed calendar run corrects this problem. Given the calendar is the same in each of the forecast years, the percent of the energy forecast allocated to the peak hour will be the same every year.

The final set of profiles reflects the actual calendar. These profiles are combined in *MetrixLT* with the peaks generated by the fixed calendar run to produce the final hourly load forecast.

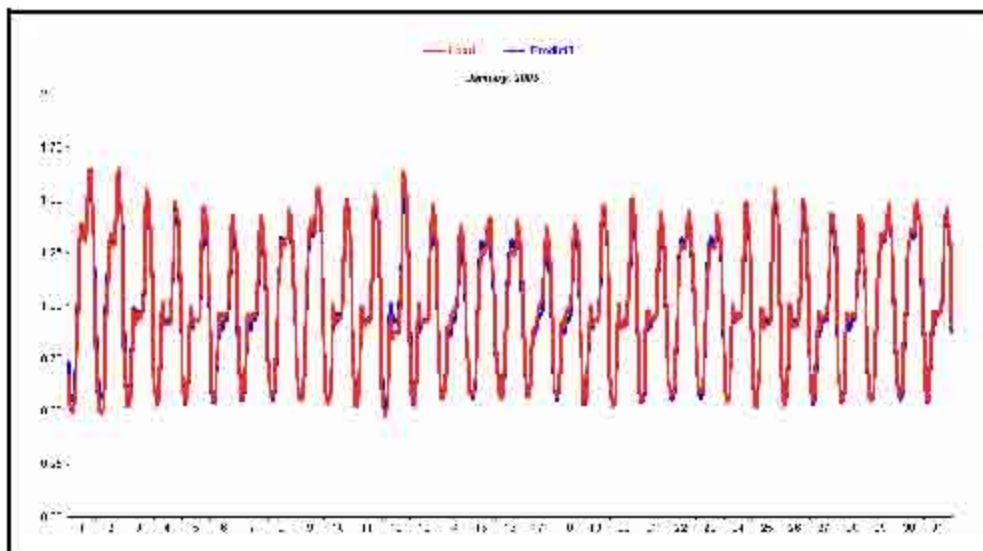
Residential profiles are estimated for cooling, heating, and other use. Profiles are constructed using end-use weather response functions developed as part of Itron's EShapes database, which is an end-use library of shapes constructed by US region. The shapes were developed from engineering simulation runs for typical households with air conditioning and electric space heating.

Heating and cooling weather response functions are simulated using St. Louis actual daily weather data over the same period for which residential load research data is

available- July 2003 to June 2006. This generates an initial use per customer hourly heating and cooling load for this period. A base-use profile model is used to generate an initial hourly load profile for residential base load. The end-use results from the simulation are calibrated to actual residential class load research data.

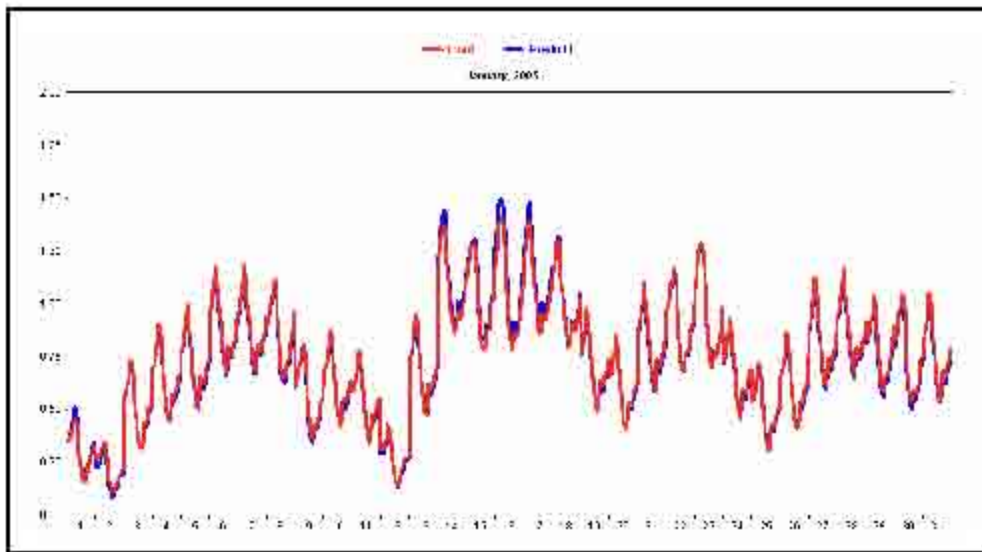
Hourly end-use profiles models are estimated from the calibrated end-use hourly load data. The profile models' functional forms are similar to that of the class models. The cooling profile model includes daily cooling degree-days for multiple splines (base 65 and 70), binary variables for day of the week, month, and major holidays, daily predicted cooling energy from an ANN specification, and the interaction of daily energy and CDD with days of the week. The heating profile model includes daily heating degree-days for multiple splines (base 65 and 50), and the same binary and interaction variables as that in the cooling profile model. The base-use profile model specification is similar to the subclass models. The models fit the calibrated end-use profile data extremely well.

Other-use use-per-customer kW (Red Actual) and (Blue Predicted)

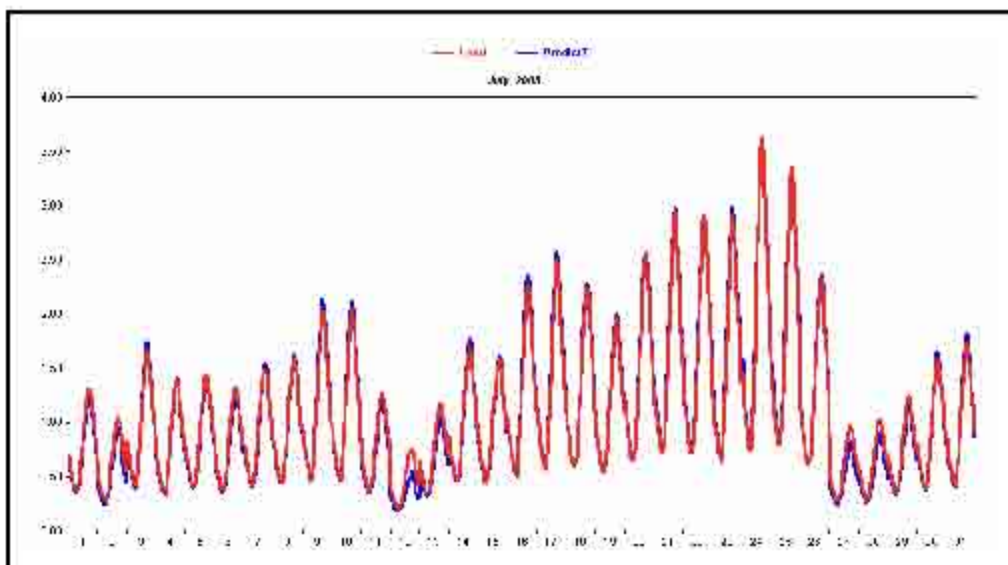




Heating use use-per-customer kW (Red Actual) and (Blue Predicted)



Cooling use use-per-customer kW (Red Actual) and (Blue Predicted)



The profiles are extended through the forecast period using the forecast calendar and normal daily weather. As discussed above, the initial profile forecasts are based on a fixed calendar. The fixed calendar run is combined with end-use energy forecasts and aggregated to generate the residential class profile forecast. The residential class profile

forecast is added with the other class hourly profiles resulting in an initial long-term system hourly load forecast. As the calendar is fixed, monthly peaks from the initial fixed-calendar run will increase over time with forecasted class and residential end-use energy forecast and the underlying load diversity associated with each customer class and residential end-use. A final set of end-use profiles are generated that reflect the actual calendar. Results from the final profile run are combined with end-use energy forecasts and monthly peaks from the fixed calendar run. Model statistics are below:

Residential use-per-customer heating profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>Std Err</b> |
|--------------|-----------------|------------|----------------|
| DailyEnergy  | 0.99            | 0.5        | 0.87           |
| Load0        | 0.99            | 0.02       | 0.04           |
| Load1        | 0.99            | 0.02       | 0.03           |
| Load2        | 0.99            | 0.01       | 0.03           |
| Load3        | 0.99            | 0.01       | 0.02           |
| Load4        | 0.99            | 0.01       | 0.02           |
| Load5        | 0.99            | 0.01       | 0.02           |
| Load6        | 0.99            | 0.01       | 0.01           |
| Load7        | 0.99            | 0.01       | 0.02           |
| Load8        | 0.99            | 0.01       | 0.02           |
| Load9        | 0.99            | 0.01       | 0.03           |
| Load10       | 0.99            | 0.02       | 0.04           |
| Load11       | 0.99            | 0.02       | 0.05           |
| Load12       | 0.99            | 0.03       | 0.05           |
| Load13       | 0.99            | 0.03       | 0.06           |
| Load14       | 0.99            | 0.04       | 0.06           |
| Load15       | 0.99            | 0.04       | 0.07           |
| Load16       | 0.99            | 0.04       | 0.08           |
| Load17       | 0.99            | 0.04       | 0.08           |
| Load18       | 0.99            | 0.04       | 0.07           |
| Load19       | 0.99            | 0.03       | 0.06           |

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>Std Err</b> |
|--------------|-----------------|------------|----------------|
| Load20       | 0.99            | 0.03       | 0.06           |
| Load21       | 0.99            | 0.02       | 0.05           |
| Load22       | 0.99            | 0.02       | 0.05           |
| Load23       | 0.99            | 0.02       | 0.04           |



Residential use-per-customer cooling profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>Std Err</b> |
|--------------|-----------------|------------|----------------|
| DailyEnergy  | 0.99            | 0.28       | 0.42           |
| Load0        | 0.99            | 0.01       | 0.02           |
| Load1        | 0.99            | 0.01       | 0.02           |
| Load2        | 0.99            | 0.01       | 0.02           |
| Load3        | 0.99            | 0.02       | 0.02           |
| Load4        | 0.99            | 0.02       | 0.03           |
| Load5        | 0.99            | 0.02       | 0.03           |
| Load6        | 0.99            | 0.02       | 0.03           |
| Load7        | 0.99            | 0.02       | 0.02           |
| Load8        | 0.99            | 0.01       | 0.02           |
| Load9        | 0.99            | 0.01       | 0.02           |
| Load10       | 0.99            | 0.01       | 0.02           |
| Load11       | 0.99            | 0.01       | 0.02           |
| Load12       | 0.99            | 0.01       | 0.01           |
| Load13       | 0.99            | 0.01       | 0.01           |
| Load14       | 0.99            | 0.01       | 0.01           |
| Load15       | 0.99            | 0.01       | 0.01           |
| Load16       | 0.99            | 0.01       | 0.02           |
| Load17       | 0.99            | 0.01       | 0.02           |
| Load18       | 0.99            | 0.01       | 0.02           |
| Load19       | 0.99            | 0.01       | 0.02           |
| Load20       | 0.99            | 0.01       | 0.02           |
| Load21       | 0.99            | 0.01       | 0.02           |
| Load22       | 0.99            | 0.01       | 0.02           |
| Load23       | 0.99            | 0.01       | 0.02           |

Residential use-per-customer other-use profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>MAPE</b> | <b>Std Err</b> |
|--------------|-----------------|------------|-------------|----------------|
| DailyEnergy  | 0.81            | 0.59       | 2.76%       | 0.8            |
| Load0        | 0.77            | 0.03       | 3.67%       | 0.04           |
| Load1        | 0.82            | 0.02       | 3.77%       | 0.04           |
| Load2        | 0.85            | 0.02       | 3.84%       | 0.03           |
| Load3        | 0.86            | 0.02       | 3.83%       | 0.03           |
| Load4        | 0.86            | 0.02       | 3.76%       | 0.03           |
| Load5        | 0.88            | 0.03       | 3.69%       | 0.04           |
| Load6        | 0.89            | 0.03       | 3.52%       | 0.04           |
| Load7        | 0.84            | 0.03       | 3.25%       | 0.04           |
| Load8        | 0.68            | 0.03       | 3.28%       | 0.04           |
| Load9        | 0.86            | 0.03       | 3.53%       | 0.04           |
| Load10       | 0.9             | 0.03       | 3.64%       | 0.05           |
| Load11       | 0.92            | 0.03       | 3.69%       | 0.05           |
| Load12       | 0.92            | 0.03       | 3.72%       | 0.05           |
| Load13       | 0.93            | 0.03       | 3.75%       | 0.04           |
| Load14       | 0.92            | 0.03       | 3.74%       | 0.04           |
| Load15       | 0.91            | 0.03       | 3.79%       | 0.05           |
| Load16       | 0.91            | 0.04       | 3.85%       | 0.05           |
| Load17       | 0.92            | 0.04       | 3.73%       | 0.05           |
| Load18       | 0.92            | 0.04       | 3.67%       | 0.06           |
| Load19       | 0.89            | 0.04       | 3.56%       | 0.06           |
| Load20       | 0.81            | 0.04       | 3.45%       | 0.06           |
| Load21       | 0.73            | 0.04       | 3.24%       | 0.05           |
| Load22       | 0.68            | 0.03       | 3.10%       | 0.04           |
| Load23       | 0.6             | 0.03       | 3.57%       | 0.04           |

Commercial LGS profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>MAPE</b> | <b>Std Err</b> |
|--------------|-----------------|------------|-------------|----------------|
| DailyEnergy  | 0.94            | 60.94      | 2.79%       | 80.92          |
| Load0        | 0.76            | 3.84       | 5.33%       | 5.02           |
| Load1        | 0.76            | 3.74       | 5.29%       | 4.93           |
| Load2        | 0.77            | 3.68       | 5.22%       | 4.86           |
| Load3        | 0.78            | 3.69       | 5.24%       | 4.85           |
| Load4        | 0.8             | 3.69       | 5.06%       | 4.84           |
| Load5        | 0.81            | 3.75       | 4.79%       | 4.91           |
| Load6        | 0.85            | 3.8        | 4.38%       | 5              |
| Load7        | 0.9             | 3.76       | 3.95%       | 4.97           |
| Load8        | 0.92            | 3.63       | 3.59%       | 4.88           |
| Load9        | 0.93            | 3.57       | 3.40%       | 4.81           |
| Load10       | 0.93            | 3.64       | 3.38%       | 4.92           |
| Load11       | 0.94            | 3.65       | 3.36%       | 4.93           |
| Load12       | 0.95            | 3.62       | 3.32%       | 4.87           |
| Load13       | 0.95            | 3.63       | 3.34%       | 4.87           |
| Load14       | 0.95            | 3.81       | 3.55%       | 5              |
| Load15       | 0.94            | 3.91       | 3.73%       | 5.07           |
| Load16       | 0.94            | 3.98       | 3.89%       | 5.13           |
| Load17       | 0.93            | 3.85       | 3.88%       | 5.03           |
| Load18       | 0.92            | 3.54       | 3.72%       | 4.69           |
| Load19       | 0.92            | 3.34       | 3.62%       | 4.4            |
| Load20       | 0.91            | 3.14       | 3.54%       | 4.2            |
| Load21       | 0.89            | 3.07       | 3.67%       | 4.11           |
| Load22       | 0.86            | 3.21       | 4.11%       | 4.15           |
| Load23       | 0.85            | 3.13       | 4.21%       | 4.06           |

Commercial LPS profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>MAPE</b> | <b>Std Err</b> |
|--------------|-----------------|------------|-------------|----------------|
| DailyEnergy  | 0.85            | 4823.96    | 3.56%       | 6262.47        |
| Load0        | 0.76            | 223.75     | 4.24%       | 293.05         |
| Load1        | 0.76            | 220.75     | 4.19%       | 289.19         |
| Load2        | 0.76            | 216.39     | 4.13%       | 286.49         |
| Load3        | 0.77            | 213.84     | 4.09%       | 281.85         |
| Load4        | 0.77            | 216.55     | 4.09%       | 287.02         |
| Load5        | 0.79            | 218.94     | 4.05%       | 291.75         |
| Load6        | 0.81            | 225.9      | 4.03%       | 296.68         |
| Load7        | 0.83            | 230.4      | 3.99%       | 301.21         |
| Load8        | 0.86            | 231.69     | 3.93%       | 299.82         |
| Load9        | 0.87            | 229.66     | 3.83%       | 296.93         |
| Load10       | 0.87            | 224.87     | 3.74%       | 289.18         |
| Load11       | 0.88            | 223.57     | 3.70%       | 287.5          |
| Load12       | 0.88            | 222.96     | 3.67%       | 288.31         |
| Load13       | 0.88            | 222.05     | 3.65%       | 286.16         |
| Load14       | 0.88            | 224.82     | 3.72%       | 290.63         |
| Load15       | 0.87            | 222.96     | 3.73%       | 289.57         |
| Load16       | 0.87            | 215.84     | 3.66%       | 280.77         |
| Load17       | 0.86            | 214.91     | 3.72%       | 279.2          |
| Load18       | 0.84            | 208.8      | 3.71%       | 271.98         |
| Load19       | 0.83            | 207.1      | 3.74%       | 270.01         |
| Load20       | 0.83            | 201.59     | 3.68%       | 263.71         |
| Load21       | 0.82            | 204.67     | 3.79%       | 266.53         |
| Load22       | 0.81            | 206.2      | 3.84%       | 269.18         |
| Load23       | 0.79            | 207.23     | 3.90%       | 270.39         |

Commercial SGS profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>MAPE</b> | <b>Std Err</b> |
|--------------|-----------------|------------|-------------|----------------|
| DailyEnergy  | 0.95            | 2.39       | 3.48%       | 3.16           |
| Load0        | 0.8             | 0.13       | 5.66%       | 0.17           |
| Load1        | 0.81            | 0.13       | 5.81%       | 0.17           |
| Load2        | 0.82            | 0.12       | 5.79%       | 0.16           |
| Load3        | 0.82            | 0.12       | 5.80%       | 0.16           |
| Load4        | 0.83            | 0.12       | 5.73%       | 0.16           |
| Load5        | 0.83            | 0.12       | 5.73%       | 0.16           |
| Load6        | 0.86            | 0.13       | 5.88%       | 0.17           |
| Load7        | 0.9             | 0.14       | 5.56%       | 0.18           |
| Load8        | 0.93            | 0.15       | 5.20%       | 0.21           |
| Load9        | 0.94            | 0.16       | 4.90%       | 0.22           |
| Load10       | 0.94            | 0.17       | 4.69%       | 0.22           |
| Load11       | 0.94            | 0.17       | 4.71%       | 0.23           |
| Load12       | 0.95            | 0.17       | 4.78%       | 0.23           |
| Load13       | 0.95            | 0.18       | 4.95%       | 0.24           |
| Load14       | 0.95            | 0.18       | 5.12%       | 0.24           |
| Load15       | 0.95            | 0.19       | 5.30%       | 0.25           |
| Load16       | 0.94            | 0.18       | 5.42%       | 0.24           |
| Load17       | 0.9             | 0.18       | 5.58%       | 0.23           |
| Load18       | 0.88            | 0.17       | 5.54%       | 0.22           |
| Load19       | 0.86            | 0.16       | 5.45%       | 0.22           |
| Load20       | 0.85            | 0.15       | 5.24%       | 0.21           |
| Load21       | 0.84            | 0.14       | 5.22%       | 0.19           |
| Load22       | 0.88            | 0.11       | 4.37%       | 0.14           |
| Load23       | 0.88            | 0.1        | 4.35%       | 0.13           |

Commercial SPS profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>MAPE</b> | <b>Std Err</b> |
|--------------|-----------------|------------|-------------|----------------|
| DailyEnergy  | 0.91            | 480.45     | 3.01%       | 611.91         |
| Load0        | 0.81            | 20.81      | 3.48%       | 26.48          |
| Load1        | 0.81            | 20.2       | 3.42%       | 25.96          |
| Load2        | 0.81            | 19.83      | 3.36%       | 25.6           |
| Load3        | 0.82            | 19.42      | 3.29%       | 24.95          |
| Load4        | 0.84            | 19.09      | 3.18%       | 24.3           |
| Load5        | 0.85            | 20.04      | 3.20%       | 25.55          |
| Load6        | 0.86            | 22.54      | 3.41%       | 28.51          |
| Load7        | 0.88            | 24.28      | 3.51%       | 31.17          |
| Load8        | 0.9             | 25.22      | 3.54%       | 32.34          |
| Load9        | 0.91            | 25.74      | 3.55%       | 33.18          |
| Load10       | 0.91            | 25.85      | 3.54%       | 33.36          |
| Load11       | 0.91            | 26         | 3.53%       | 33.33          |
| Load12       | 0.92            | 25.58      | 3.48%       | 32.93          |
| Load13       | 0.92            | 25.65      | 3.48%       | 33.01          |
| Load14       | 0.92            | 25.85      | 3.54%       | 33.12          |
| Load15       | 0.92            | 25.35      | 3.52%       | 32.37          |
| Load16       | 0.92            | 24.35      | 3.46%       | 31             |
| Load17       | 0.91            | 23.18      | 3.36%       | 29.57          |
| Load18       | 0.91            | 22.17      | 3.29%       | 28.14          |
| Load19       | 0.9             | 21.22      | 3.21%       | 26.87          |
| Load20       | 0.89            | 20.88      | 3.23%       | 26.37          |
| Load21       | 0.88            | 20.12      | 3.18%       | 25.39          |
| Load22       | 0.87            | 19.47      | 3.16%       | 24.48          |
| Load23       | 0.86            | 19         | 3.14%       | 24             |

Industrial LGS profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>MAPE</b> | <b>Std Err</b> |
|--------------|-----------------|------------|-------------|----------------|
| DailyEnergy  | 0.87            | 207.85     | 9.22%       | 291.1          |
| Load0        | 0.73            | 9.97       | 13.08%      | 13.58          |
| Load1        | 0.72            | 9.65       | 12.46%      | 13.17          |
| Load2        | 0.71            | 9.58       | 12.61%      | 12.98          |
| Load3        | 0.67            | 9.65       | 12.93%      | 12.72          |
| Load4        | 0.69            | 9.89       | 12.71%      | 13.07          |
| Load5        | 0.78            | 9.48       | 11.59%      | 13.22          |
| Load6        | 0.84            | 10.75      | 11.84%      | 14.89          |
| Load7        | 0.86            | 11.74      | 11.51%      | 15.82          |
| Load8        | 0.83            | 13.11      | 12.86%      | 17.58          |
| Load9        | 0.83            | 13.13      | 12.36%      | 17.45          |
| Load10       | 0.85            | 12.65      | 11.58%      | 16.83          |
| Load11       | 0.86            | 12.64      | 11.56%      | 16.75          |
| Load12       | 0.86            | 12.49      | 11.31%      | 16.72          |
| Load13       | 0.86            | 12.88      | 11.55%      | 17.62          |
| Load14       | 0.84            | 13.18      | 12.60%      | 18.1           |
| Load15       | 0.79            | 13.93      | 14.71%      | 19.29          |
| Load16       | 0.77            | 13.23      | 15.54%      | 18.62          |
| Load17       | 0.76            | 12.94      | 17.12%      | 17.85          |
| Load18       | 0.78            | 12.31      | 19.02%      | 17.05          |
| Load19       | 0.79            | 11.91      | 16.86%      | 16.36          |
| Load20       | 0.77            | 11.84      | 18.50%      | 16.63          |
| Load21       | 0.76            | 11.72      | 17.45%      | 16.4           |
| Load22       | 0.77            | 11.14      | 17.49%      | 15.59          |
| Load23       | 0.76            | 10.21      | 14.33%      | 14.7           |



Industrial LPS profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>MAPE</b> | <b>Std Err</b> |
|--------------|-----------------|------------|-------------|----------------|
| DailyEnergy  | 0.83            | 8500       | 3.81%       | 11223.6        |
| Load0        | 0.76            | 391.1      | 4.27%       | 513.42         |
| Load1        | 0.76            | 380.21     | 4.17%       | 495.23         |
| Load2        | 0.76            | 371.48     | 4.09%       | 485.39         |
| Load3        | 0.77            | 366.14     | 4.08%       | 479.98         |
| Load4        | 0.77            | 372.06     | 4.13%       | 485.26         |
| Load5        | 0.79            | 378.8      | 4.15%       | 497.24         |
| Load6        | 0.81            | 383.63     | 4.09%       | 510.28         |
| Load7        | 0.82            | 392.05     | 4.16%       | 517.28         |
| Load8        | 0.83            | 400.37     | 4.24%       | 526.21         |
| Load9        | 0.83            | 397.24     | 4.19%       | 519.94         |
| Load10       | 0.84            | 387.82     | 4.10%       | 507.1          |
| Load11       | 0.83            | 389.87     | 4.12%       | 513.26         |
| Load12       | 0.84            | 391.84     | 4.10%       | 512.63         |
| Load13       | 0.84            | 397.42     | 4.15%       | 519.72         |
| Load14       | 0.84            | 390.81     | 4.12%       | 512.94         |
| Load15       | 0.84            | 383.71     | 4.09%       | 503.14         |
| Load16       | 0.83            | 388.6      | 4.18%       | 513.27         |
| Load17       | 0.83            | 382.37     | 4.13%       | 505.29         |
| Load18       | 0.83            | 381.44     | 4.13%       | 502.74         |
| Load19       | 0.82            | 378.91     | 4.11%       | 500.48         |
| Load20       | 0.81            | 378.03     | 4.11%       | 500.23         |
| Load21       | 0.81            | 376.32     | 4.10%       | 497.41         |
| Load22       | 0.8             | 383.17     | 4.16%       | 503.27         |
| Load23       | 0.8             | 384.42     | 4.16%       | 505.47         |

Industrial SGS profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>MAPE</b> | <b>Std Err</b> |
|--------------|-----------------|------------|-------------|----------------|
| DailyEnergy  | 0.82            | 11.88      | 13.49%      | 16.2           |
| Load0        | 0.75            | 0.44       | 22.76%      | 0.59           |
| Load1        | 0.75            | 0.44       | 20.35%      | 0.59           |
| Load2        | 0.76            | 0.44       | 21.51%      | 0.6            |
| Load3        | 0.75            | 0.43       | 20.71%      | 0.59           |
| Load4        | 0.77            | 0.43       | 19.37%      | 0.58           |
| Load5        | 0.77            | 0.48       | 19.79%      | 0.66           |
| Load6        | 0.75            | 0.72       | 18.26%      | 1              |
| Load7        | 0.8             | 0.94       | 20.34%      | 1.27           |
| Load8        | 0.8             | 0.97       | 19.88%      | 1.33           |
| Load9        | 0.79            | 1.02       | 19.21%      | 1.39           |
| Load10       | 0.79            | 1.04       | 19.08%      | 1.41           |
| Load11       | 0.79            | 1.02       | 18.97%      | 1.39           |
| Load12       | 0.79            | 1.02       | 18.88%      | 1.41           |
| Load13       | 0.81            | 1          | 18.87%      | 1.36           |
| Load14       | 0.8             | 0.96       | 21.01%      | 1.33           |
| Load15       | 0.77            | 0.84       | 19.22%      | 1.16           |
| Load16       | 0.73            | 0.62       | 19.40%      | 0.83           |
| Load17       | 0.67            | 0.54       | 21.60%      | 0.71           |
| Load18       | 0.67            | 0.47       | 134.30%     | 0.62           |
| Load19       | 0.68            | 0.45       | 23.59%      | 0.58           |
| Load20       | 0.71            | 0.42       | 31.35%      | 0.55           |
| Load21       | 0.71            | 0.45       | 69.76%      | 0.58           |
| Load22       | 0.74            | 0.42       | 27.04%      | 0.56           |
| Load23       | 0.75            | 0.42       | 43.30%      | 0.57           |

Industrial SPS profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>MAPE</b> | <b>Std Err</b> |
|--------------|-----------------|------------|-------------|----------------|
| DailyEnergy  | 0.91            | 870.16     | 4.35%       | 1180.31        |
| Load0        | 0.84            | 39.43      | 5.08%       | 54.41          |
| Load1        | 0.84            | 38.25      | 4.97%       | 52.33          |
| Load2        | 0.82            | 38.34      | 5.04%       | 52.15          |
| Load3        | 0.82            | 37.9       | 5.01%       | 50.91          |
| Load4        | 0.84            | 38.09      | 4.97%       | 51.11          |
| Load5        | 0.87            | 38.52      | 4.86%       | 51.31          |
| Load6        | 0.9             | 40.05      | 4.82%       | 53.55          |
| Load7        | 0.92            | 40.36      | 4.74%       | 54.59          |
| Load8        | 0.92            | 40.67      | 4.70%       | 55.09          |
| Load9        | 0.92            | 41.64      | 4.75%       | 56.21          |
| Load10       | 0.92            | 42.08      | 4.75%       | 56.34          |
| Load11       | 0.92            | 42.44      | 4.80%       | 56.58          |
| Load12       | 0.93            | 42.55      | 4.78%       | 56.98          |
| Load13       | 0.93            | 42.48      | 4.77%       | 57.13          |
| Load14       | 0.93            | 41.52      | 4.72%       | 55.94          |
| Load15       | 0.92            | 40.62      | 4.74%       | 54.26          |
| Load16       | 0.92            | 40.98      | 4.86%       | 54.32          |
| Load17       | 0.91            | 40.44      | 4.89%       | 53.19          |
| Load18       | 0.91            | 40.54      | 4.96%       | 53.55          |
| Load19       | 0.9             | 40.31      | 4.94%       | 53.32          |
| Load20       | 0.89            | 41.04      | 5.06%       | 54.09          |
| Load21       | 0.89            | 40.55      | 4.99%       | 53.83          |
| Load22       | 0.88            | 39.69      | 4.96%       | 53.11          |
| Load23       | 0.86            | 39.43      | 4.99%       | 53.79          |

Lighting profile model results

| Model       | Adj R-Sq | MAD  | MAPE   | Std Err |
|-------------|----------|------|--------|---------|
| DailyEnergy | 1        | 0.12 | 0.74%  | 0.14    |
| Load0       | 0.12     | 0.01 | 0.73%  | 0.01    |
| Load1       | 0.12     | 0.01 | 0.73%  | 0.01    |
| Load2       | 0.12     | 0.01 | 0.73%  | 0.01    |
| Load3       | 0.12     | 0.01 | 0.73%  | 0.01    |
| Load4       | 0.12     | 0.01 | 0.73%  | 0.01    |
| Load5       | 0.89     | 0.05 | 4.46%  | 0.08    |
| Load6       | 0.98     | 0.07 | 12.81% | 0.09    |
| Load7       | 0.8      | 0.04 | 15.71% | 0.07    |
| Load8       | 1        | 0    | 0.00%  | 0       |
| Load9       | 1        | 0    | 0.00%  | 0       |
| Load10      | 1        | 0    | 0.00%  | 0       |
| Load11      | 1        | 0    | 0.00%  | 0       |
| Load12      | 1        | 0    | 0.00%  | 0       |
| Load13      | 1        | 0    | 0.00%  | 0       |
| Load14      | 1        | 0    | 0.00%  | 0       |
| Load15      | 1        | 0    | 0.00%  | 0       |
| Load16      | 0.9      | 0.04 | 8.20%  | 0.06    |
| Load17      | 0.97     | 0.05 | 5.23%  | 0.1     |
| Load18      | 0.98     | 0.06 | 5.53%  | 0.09    |
| Load19      | 0.97     | 0.07 | 10.81% | 0.1     |
| Load20      | 0.92     | 0.04 | 4.05%  | 0.06    |
| Load21      | 0.12     | 0.01 | 0.73%  | 0.01    |
| Load22      | 0.12     | 0.01 | 0.73%  | 0.01    |
| Load23      | 0.12     | 0.01 | 0.73%  | 0.01    |

Noranda profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>MAPE</b> | <b>Std Err</b> |
|--------------|-----------------|------------|-------------|----------------|
| DailyEnergy  | 0.38            | 29424.39   | 0.26%       | 39003.09       |
| Load0        | 0.13            | 1763.95    | 0.38%       | 3481.64        |
| Load1        | 0.19            | 1865.27    | 0.40%       | 3611.33        |
| Load2        | 0.21            | 1819.2     | 0.39%       | 3339.75        |
| Load3        | 0.13            | 1825.96    | 0.39%       | 3438.61        |
| Load4        | 0.24            | 1509.69    | 0.32%       | 2328.58        |
| Load5        | 0.1             | 1724.35    | 0.37%       | 4117.13        |
| Load6        | 0.12            | 1728.42    | 0.37%       | 3317.62        |
| Load7        | 0.11            | 2246.9     | 0.49%       | 4297.34        |
| Load8        | 0.12            | 2475.63    | 0.54%       | 4919.32        |
| Load9        | 0.03            | 4341.72    | 0.96%       | 9094.23        |
| Load10       | 0.09            | 2986.32    | 0.65%       | 5821.59        |
| Load11       | 0.07            | 2869.81    | 0.63%       | 6914.06        |
| Load12       | 0.03            | 4004.02    | 0.89%       | 8693.82        |
| Load13       | 0.03            | 2900.03    | 0.63%       | 5511.81        |
| Load14       | 0.11            | 2253.21    | 0.48%       | 4061.69        |
| Load15       | 0.06            | 2097.63    | 0.45%       | 4341.34        |
| Load16       | 0.08            | 2371.46    | 0.51%       | 5001.35        |
| Load17       | 0.03            | 2076.58    | 0.45%       | 5172.03        |
| Load18       | 0.09            | 2373.96    | 0.52%       | 5553.06        |
| Load19       | 0.11            | 1584.42    | 0.34%       | 4037.36        |
| Load20       | 0.02            | 1864.3     | 0.40%       | 4259.12        |
| Load21       | 0.04            | 1790.07    | 0.39%       | 4851.89        |
| Load22       | 0.12            | 1910.98    | 0.41%       | 3795.44        |
| Load23       | 0.17            | 1646.91    | 0.35%       | 3358.46        |

Wholesale profile model results

| <b>Model</b> | <b>Adj R-Sq</b> | <b>MAD</b> | <b>MAPE</b> | <b>Std Err</b> |
|--------------|-----------------|------------|-------------|----------------|
| DailyEnergy  | 0.91            | 11273.69   | 4.06%       | 15399.02       |
| Load0        | 0.82            | 533.04     | 5.44%       | 756.83         |
| Load1        | 0.81            | 504.17     | 5.40%       | 711.86         |
| Load2        | 0.81            | 480.88     | 5.32%       | 677.49         |
| Load3        | 0.81            | 459.95     | 5.15%       | 646.48         |
| Load4        | 0.8             | 454.14     | 5.05%       | 633.98         |
| Load5        | 0.82            | 465.1      | 4.93%       | 643.66         |
| Load6        | 0.83            | 507.95     | 4.98%       | 705.35         |
| Load7        | 0.85            | 515.38     | 4.72%       | 724            |
| Load8        | 0.86            | 509.04     | 4.41%       | 712.04         |
| Load9        | 0.88            | 521.58     | 4.33%       | 717.88         |
| Load10       | 0.89            | 545.47     | 4.37%       | 747.14         |
| Load11       | 0.91            | 575.86     | 4.51%       | 785.64         |
| Load12       | 0.9             | 615.59     | 4.75%       | 852.82         |
| Load13       | 0.91            | 638.08     | 4.92%       | 877.01         |
| Load14       | 0.92            | 661.34     | 5.08%       | 904.7          |
| Load15       | 0.92            | 683.96     | 5.25%       | 938.65         |
| Load16       | 0.91            | 730.36     | 5.51%       | 992.95         |
| Load17       | 0.89            | 736.07     | 5.45%       | 1006.96        |
| Load18       | 0.89            | 691.06     | 5.13%       | 962.45         |
| Load19       | 0.89            | 633.53     | 4.76%       | 880.19         |
| Load20       | 0.89            | 606.05     | 4.63%       | 839.3          |
| Load21       | 0.9             | 571.6      | 4.54%       | 792.98         |
| Load22       | 0.89            | 517.1      | 4.47%       | 723.48         |
| Load23       | 0.89            | 473.8      | 4.54%       | 661.8          |

In developing the hourly load profiles, one of the tasks is to capture a typical daily weather pattern. Ideally, these profiles will capture extreme, moderate, and temperate days, and reflect a “typical” weather pattern. The daily normal series is then used to drive class and residential end-use profile models through the forecast period.

Normal daily degree-days are calculated using rank and average approach. The process entails first constructing daily historical degree-days. Historical daily degree-days are then ranked (or sorted) within season and year from the highest to lowest degree-day. The next step is to map the calculated degree-day duration curves to a daily weather pattern. A typical HDD and CDD weather pattern is calculated from thirty-years of historical daily degree days over the period 1971 to 2000. The typical weather pattern is calculated by averaging actual daily degree-days by date (i.e., all the January 1<sup>st</sup>s are averaged, the January 2<sup>nd</sup>s are averaged, ..., December 31<sup>st</sup>s are averaged).

The calculated normal degree-day duration curves are mapped to the weather pattern. The highest degree-day from the weather duration curve is mapped to the highest degree-day in the calculated daily weather pattern; the second highest degree-day is mapped to the second highest degree-day, and so on. This process continues until all calculated degree-days from the normal daily duration curve are mapped to a specific day on the daily degree-day weather pattern. The daily normal degree-day series is repeated for each of the forecast years, and is used to generate the preliminary class and residential end-use profile forecasts.

Next step in the process is generating a system hourly forecast using the build-up approach. This entails combining the class and end-use energy forecasts with the profiles, and then aggregating the class and end-use forecast to a system hourly load. The forecast is generated using a two-step process. The first step is used to generate a monthly peak forecast; this entails executing the underlying profiles using a *fixed* calendar, combining the energy forecast with the fixed calendar profiles, and calibrating the initial model peaks with actual system demand. In the second step, final calibrated monthly peaks are combined with the energy forecasts, and class and end-use profiles that reflect the actual calendar.

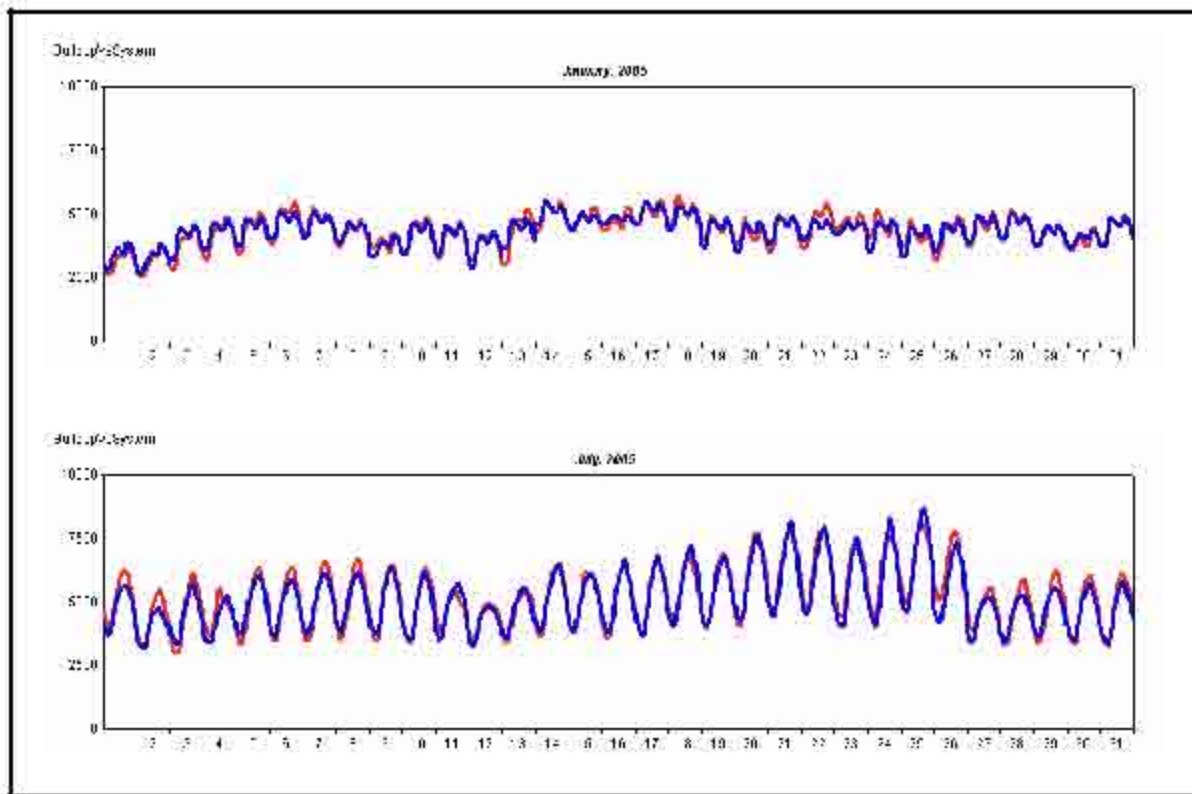
1. Execute load profile models for actual daily weather conditions and calendar



2. Combine resulting profiles with customer class and end-use energy estimates for actual weather conditions and line losses
3. Add-up customer class and residential end-use profiles
4. Compare build-up shape against actual system load

Figure below shows the comparative results for January and July 2005.

Actual (Red) and Build-up (Blue) System Hourly Load Comparison



The build-up forecast is calculated using *MetrixLT Batch Transform Objects*. The build-up approach generates a reasonable forecast when the profile is compared against actual system load (excluding Noranda). The forecast can be improved slightly using a *MetrixLT Scaling Transform*. The scaling transform calibrates the build-up forecast to a scaling variable target – in this case the target is actual system load.

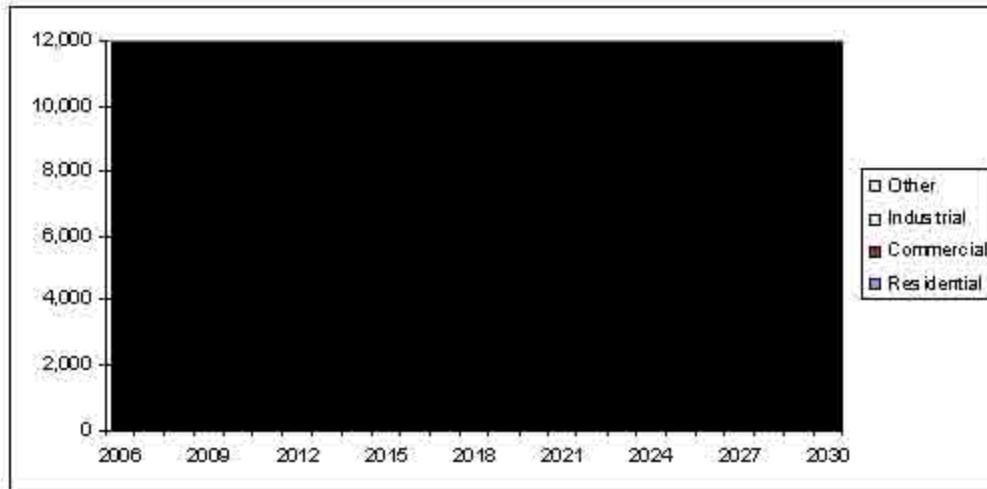
As explained earlier, the process of combining energy forecasts with profiles that reflect the actual calendar tends to result in “noisy” peak forecasts – that is, the peak can

be up 3% one year and down 1.5% the next year, for example. The variation in monthly peaks has nothing to do with weather or changes in energy growth, but rather the shifting days in the calendar over time. To resolve this problem, in the initial forecast run the class and end-use profiles are generated using a *fixed* calendar through the forecast period; the 2007 calendar is repeated in each forecast year. The resulting profiles are combined with the annual class and residential end-use energy forecast and adjusted for losses. The class and residential end-use profiles are aggregated to generate a system hourly load forecast. The monthly peaks are extracted from the fixed-calendar system hourly load forecast. The resulting monthly peak forecast will show consistent growth that reflects the class and residential end-use energy forecasts and underlying class and end-use load diversity.

The build-up forecast model will tend to under-estimate the system peak. This is an outcome of the shape estimation process that is based on hourly load regression models. The regression models minimize the sum of the squared residuals for all hours – this includes low load hours as well as the peak hour. As the model gives equal weight to all hours, the regression line will tend to under predict the extreme or peak hours though on average will generate a reasonable profile. To correct this bias, the peak demand from the build-up model is calibrated to the 2006 weather normal peak (excluding Noranda). The July 2006 peak demand from the build-up model is 7,857 MW. The weather-normalized July 2006 peak excluding Noranda is 7,969 MW. The calculated peak adjustment factor is 1.014 (*July 2006 Weather Normal Peak / Build-up 2006 Peak Forecast*). This adjustment factor is applied to the July peak forecasts from the build-up model forecast. Build-up peak demand forecast for the other months are also evaluated against expected peak demand. When compared with expected monthly peaks, the build-up model tended to over-estimate February peaks and under-estimate April monthly peaks. A 0.90 factor is applied to the February monthly peak forecasts and a 1.10 factor is applied to the April peak demand forecast.

In the final run, the customer class and end-use profile models are executed through the forecast period with the *actual* calendar and normal daily degree-days. A separate hourly load forecast for Noranda is added to the calibrated build-up forecast. Final monthly peak results are provided to Resource Planning for the integration analysis.

Below is a figure that shows the total system forecast and contribution of each revenue class to the peak growth.



Residential and commercial classes are responsible for most of the growth in system peak demand. On the other hand, industrial coincident peaks decline steadily through the forecast period and Other (Noranda, wholesale and lighting) category remains stagnant after the drop in 2009 due to the wholesale contract expirations. The results are provided in 22.030 (5) (B) 2.D.

## CSR 240-22.030 (5) (B) 2.B

**B. End-use detail.** For each major class, the utility shall forecast both monthly energy use and demands at time of the summer and winter system peaks. Where information is available for a major class, the utility shall provide forecasts of the monthly energy and demand at the time of summer and winter system peaks by heating, cooling and other uses.

For residential, commercial SGS and commercial LGS classes, the SAE model specifications allow AmerenUE to estimate aggregate heating, cooling, and “other use”

sales for the forecast period. Also, heating, cooling and other use coincident demand forecasts for the residential sector are obtained and provided in 22.030 (5) (B) 2.D.

### **CSR 240-22.030 (5) (B) 2.C**

**C. The stock of energy-using capital goods. For each end use for which the utility has developed measures of the stock of energy-using capital goods and where the utility has determined that forecasting the use of electricity associated with these energy-using capital goods is cost-effective and feasible, it shall forecast those measures and document the relationship between the forecasts of the measures to the forecasts of end-use energy and demands at time of the summer and winter system peaks. The values of the driver variables used to generate forecasts of the measures of the stock of energy-using capital goods shall be specified and clearly documented.**

Forecasts for the stock of energy-using capital goods are required to build bottom-up end-use models like REEPS and COMMEND modeling approaches. Since AmerenUE uses SAE models and econometric models, stock of energy-using capital goods and the forecasts for these measures are not needed for its forecasting process and are not developed. AmerenUE used EIA's efficiency and saturation data for the West North Central census region after adjusting the saturation data with the results from Missouri Statewide Residential Lighting and Appliance Saturation and Efficiency Study.

### **CSR 240-22.030 (5) (B) 2.D**

**D. The major class forecasted use per unit shall be compared to historical trends in weather-normalized use per unit. Significant differences between the forecasts and long-term and recent trends shall be analyzed and explained.**

Forecast results on a calendar month basis are provided below; the calendar month weather-normalized history is obtained from the forecast model transformations.

**Table (5) (B)-25:** Residential heating-use forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 | 551 | 422 | 315 | 157 | 48  | 4   | 0   | 1   | 28  | 133 | 306 | 490 | 32     | 2,422     | 2,455  |
| 1996 | 560 | 430 | 321 | 160 | 49  | 4   | 0   | 1   | 28  | 135 | 311 | 500 | 33     | 2,466     | 2,499  |
| 1997 | 572 | 438 | 327 | 163 | 50  | 4   | 0   | 1   | 29  | 137 | 316 | 508 | 34     | 2,511     | 2,545  |
| 1998 | 581 | 446 | 333 | 166 | 51  | 4   | 0   | 1   | 29  | 140 | 322 | 517 | 34     | 2,555     | 2,590  |
| 1999 | 591 | 453 | 337 | 168 | 51  | 4   | 0   | 1   | 30  | 141 | 326 | 522 | 35     | 2,590     | 2,625  |
| 2000 | 597 | 459 | 342 | 171 | 52  | 4   | 0   | 1   | 30  | 144 | 331 | 531 | 35     | 2,627     | 2,663  |
| 2001 | 607 | 466 | 347 | 174 | 53  | 4   | 0   | 1   | 31  | 146 | 336 | 539 | 36     | 2,668     | 2,704  |
| 2002 | 618 | 473 | 353 | 176 | 54  | 4   | 0   | 1   | 31  | 149 | 343 | 550 | 36     | 2,716     | 2,752  |
| 2003 | 632 | 485 | 361 | 181 | 55  | 5   | 0   | 1   | 32  | 153 | 351 | 563 | 37     | 2,781     | 2,818  |
| 2004 | 645 | 495 | 369 | 184 | 56  | 5   | 0   | 1   | 33  | 156 | 359 | 575 | 38     | 2,838     | 2,877  |
| 2005 | 659 | 507 | 377 | 189 | 57  | 5   | 0   | 1   | 33  | 159 | 367 | 589 | 39     | 2,904     | 2,943  |
| 2006 | 675 | 517 | 386 | 193 | 59  | 5   |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-26:** Residential cooling-use forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 | 0   | 0   | 7.8 | 39  | 159 | 458 | 688 | 592 | 281 | 48  | 3.5 | 0   | 2,019  | 257       | 2,276  |
| 1996 | 0   | 0   | 7.9 | 39  | 160 | 462 | 693 | 597 | 283 | 48  | 3.5 | 0   | 2,035  | 259       | 2,294  |
| 1997 | 0   | 0   | 7.9 | 39  | 162 | 467 | 700 | 603 | 286 | 49  | 3.5 | 0   | 2,056  | 262       | 2,318  |
| 1998 | 0   | 0   | 8.0 | 40  | 163 | 471 | 708 | 609 | 289 | 49  | 3.6 | 0   | 2,077  | 264       | 2,341  |
| 1999 | 0   | 0   | 8.1 | 40  | 164 | 473 | 710 | 611 | 290 | 49  | 3.6 | 0   | 2,084  | 265       | 2,349  |
| 2000 | 0   | 0   | 8.1 | 40  | 165 | 477 | 715 | 616 | 292 | 50  | 3.6 | 0   | 2,101  | 267       | 2,368  |
| 2001 | 0   | 0   | 8.2 | 41  | 166 | 480 | 721 | 621 | 295 | 50  | 3.6 | 0   | 2,117  | 269       | 2,386  |
| 2002 | 0   | 0   | 8.2 | 41  | 167 | 483 | 725 | 625 | 296 | 50  | 3.7 | 0   | 2,129  | 271       | 2,400  |
| 2003 | 0   | 0   | 8.3 | 41  | 170 | 491 | 737 | 634 | 302 | 51  | 3.7 | 0   | 2,164  | 275       | 2,439  |
| 2004 | 0   | 0   | 8.4 | 41  | 170 | 494 | 741 | 637 | 303 | 51  | 3.8 | 0   | 2,175  | 276       | 2,450  |
| 2005 | 0   | 0   | 8.6 | 43  | 175 | 505 | 757 | 656 | 311 | 53  | 3.8 | 0   | 2,230  | 283       | 2,513  |
| 2006 | 0   | 0   | 8.7 | 43  | 176 | 510 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |



**Table (5) (B)-27:** Residential other-use forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 |     | 499 | 500 | 445 | 472 | 421 | 501 | 551 | 615 | 484 | 431 | 472 | 2,088  | 3,302     | 5,390  |
| 1996 | 518 | 498 | 536 | 482 | 454 | 450 | 580 | 581 | 554 | 502 | 449 | 502 | 2,165  | 3,941     | 6,107  |
| 1997 | 569 | 493 | 521 | 492 | 448 | 481 | 511 | 589 | 540 | 488 | 450 | 523 | 2,122  | 3,984     | 6,106  |
| 1998 | 588 | 494 | 514 | 494 | 504 | 524 | 573 | 588 | 552 | 516 | 482 | 545 | 2,237  | 4,138     | 6,375  |
| 1999 | 561 | 537 | 534 | 505 | 507 | 514 | 598 | 629 | 575 | 514 | 491 | 540 | 2,316  | 4,189     | 6,504  |
| 2000 | 596 | 521 | 531 | 480 | 502 | 554 | 635 | 660 | 606 | 544 | 512 | 590 | 2,465  | 4,275     | 6,730  |
| 2001 | 632 | 521 | 555 | 489 | 465 | 553 | 640 | 626 | 581 | 551 | 538 | 611 | 2,401  | 4,362     | 6,763  |
| 2002 | 668 | 556 | 619 | 527 | 528 | 577 | 631 | 620 | 609 | 561 | 547 | 701 | 2,437  | 4,708     | 7,145  |
| 2003 | 617 | 608 | 627 | 533 | 560 | 573 | 661 | 658 | 588 | 539 | 571 | 683 | 2,480  | 4,738     | 7,217  |
| 2004 | 715 | 661 | 634 | 558 | 527 | 564 | 627 | 645 | 616 | 588 | 588 | 679 | 2,452  | 4,950     | 7,403  |
| 2005 | 748 | 635 | 629 | 574 | 552 | 600 | 690 | 690 | 623 | 607 | 592 | 690 | 2,602  | 5,028     | 7,630  |
| 2006 | 764 | 620 | 654 | 584 | 618 | 626 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-28:** Total residential forecast (Calendar month - GWh)

| Year | Jan   | Feb   | Mar   | Apr | May | Jun   | Jul   | Aug   | Sep | Oct | Nov | Dec   | Summer | NonSummer | Annual |
|------|-------|-------|-------|-----|-----|-------|-------|-------|-----|-----|-----|-------|--------|-----------|--------|
| 1995 |       | 921   | 823   | 641 | 678 | 883   | 1,189 | 1,144 | 924 | 665 | 740 | 962   | 4,140  |           |        |
| 1996 | 1,079 | 928   | 865   | 682 | 663 | 916   | 1,274 | 1,178 | 865 | 685 | 763 | 1,001 | 4,234  | 6,666     | 10,900 |
| 1997 | 1,140 | 932   | 856   | 695 | 659 | 952   | 1,212 | 1,193 | 855 | 674 | 770 | 1,031 | 4,212  | 6,757     | 10,969 |
| 1998 | 1,169 | 941   | 854   | 700 | 718 | 999   | 1,281 | 1,198 | 870 | 705 | 808 | 1,062 | 4,348  | 6,957     | 11,305 |
| 1999 | 1,152 | 990   | 879   | 713 | 722 | 992   | 1,308 | 1,241 | 894 | 705 | 821 | 1,062 | 4,434  | 7,044     | 11,478 |
| 2000 | 1,193 | 980   | 881   | 691 | 719 | 1,035 | 1,351 | 1,277 | 928 | 738 | 847 | 1,121 | 4,591  | 7,170     | 11,761 |
| 2001 | 1,239 | 988   | 911   | 704 | 684 | 1,038 | 1,361 | 1,248 | 906 | 747 | 877 | 1,150 | 4,553  | 7,299     | 11,853 |
| 2002 | 1,286 | 1,030 | 980   | 744 | 749 | 1,065 | 1,356 | 1,246 | 936 | 760 | 894 | 1,251 | 4,603  | 7,694     | 12,297 |
| 2003 | 1,249 | 1,093 | 997   | 755 | 785 | 1,068 | 1,399 | 1,293 | 921 | 743 | 925 | 1,247 | 4,681  | 7,794     | 12,475 |
| 2004 | 1,360 | 1,156 | 1,011 | 783 | 754 | 1,063 | 1,368 | 1,282 | 952 | 795 | 952 | 1,254 | 4,665  | 8,064     | 12,730 |
| 2005 | 1,407 | 1,142 | 1,015 | 805 | 784 | 1,110 | 1,447 | 1,346 | 967 | 819 | 963 | 1,280 | 4,871  | 8,215     | 13,086 |
| 2006 | 1,439 | 1,137 | 1,049 | 820 | 852 | 1,141 |       |       |     |     |     |       |        |           |        |
| 2007 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2008 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2009 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2010 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2011 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2012 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2013 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2014 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2015 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2016 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2017 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2018 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2019 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2020 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2021 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2022 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2023 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2024 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2025 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2026 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2027 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2028 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2029 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |
| 2030 |       |       |       |     |     |       |       |       |     |     |     |       |        |           |        |



**Table (5) (B)-29:** Commercial SGS heating-use forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 | 74  | 57  | 42  | 21  | 6   | 1   | 0   | 0   | 4   | 18  | 42  | 67  | 4      | 327       | 331    |
| 1996 | 77  | 59  | 44  | 22  | 7   | 1   | 0   | 0   | 4   | 19  | 44  | 71  | 5      | 342       | 346    |
| 1997 | 82  | 63  | 47  | 24  | 7   | 1   | 0   | 0   | 4   | 20  | 47  | 76  | 5      | 367       | 372    |
| 1998 | 86  | 66  | 49  | 25  | 7   | 1   | 0   | 0   | 4   | 21  | 48  | 77  | 5      | 379       | 384    |
| 1999 | 88  | 67  | 50  | 25  | 8   | 1   | 0   | 0   | 4   | 21  | 49  | 79  | 5      | 386       | 392    |
| 2000 | 89  | 68  | 51  | 25  | 8   | 1   | 0   | 0   | 5   | 22  | 50  | 80  | 5      | 393       | 398    |
| 2001 | 90  | 69  | 52  | 26  | 8   | 1   | 0   | 0   | 5   | 22  | 50  | 80  | 5      | 396       | 401    |
| 2002 | 90  | 69  | 51  | 26  | 8   | 1   | 0   | 0   | 4   | 21  | 49  | 79  | 5      | 394       | 399    |
| 2003 | 89  | 69  | 51  | 26  | 8   | 1   | 0   | 0   | 4   | 22  | 49  | 79  | 5      | 392       | 398    |
| 2004 | 90  | 68  | 51  | 25  | 8   | 1   | 0   | 0   | 4   | 22  | 50  | 80  | 5      | 393       | 398    |
| 2005 | 90  | 69  | 52  | 26  | 8   | 1   | 0   | 0   | 5   | 22  | 51  | 81  | 5      | 399       | 405    |
| 2006 | 92  | 71  | 53  | 26  | 8   | 1   |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-30: Commercial SGS cooling-use forecast (Calendar month - GWh)**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 | 0   | 0   | 1   | 5   | 20  | 57  | 85  | 73  | 35  | 6   | 0   | 0   | 250    | 32        | 281    |
| 1996 | 0   | 0   | 1   | 5   | 20  | 58  | 88  | 76  | 36  | 6   | 0   | 0   | 259    | 33        | 292    |
| 1997 | 0   | 0   | 1   | 5   | 22  | 64  | 97  | 83  | 40  | 7   | 0   | 0   | 283    | 36        | 319    |
| 1998 | 0   | 0   | 1   | 5   | 22  | 65  | 98  | 84  | 40  | 7   | 0   | 0   | 287    | 36        | 323    |
| 1999 | 0   | 0   | 1   | 6   | 23  | 67  | 100 | 86  | 41  | 7   | 1   | 0   | 294    | 37        | 332    |
| 2000 | 0   | 0   | 1   | 6   | 23  | 68  | 102 | 88  | 42  | 7   | 1   | 0   | 299    | 38        | 337    |
| 2001 | 0   | 0   | 1   | 6   | 24  | 68  | 102 | 88  | 42  | 7   | 1   | 0   | 300    | 38        | 339    |
| 2002 | 0   | 0   | 1   | 6   | 24  | 68  | 102 | 88  | 41  | 7   | 1   | 0   | 299    | 38        | 337    |
| 2003 | 0   | 0   | 1   | 6   | 23  | 68  | 102 | 88  | 42  | 7   | 1   | 0   | 299    | 38        | 337    |
| 2004 | 0   | 0   | 1   | 6   | 23  | 68  | 102 | 88  | 42  | 7   | 1   | 0   | 299    | 38        | 337    |
| 2005 | 0   | 0   | 1   | 6   | 24  | 70  | 105 | 90  | 43  | 7   | 1   | 0   | 308    | 39        | 347    |
| 2006 | 0   | 0   | 1   | 6   | 25  | 71  |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-31:** Commercial SGS other-use forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 |     | 191 | 195 | 192 | 178 | 187 | 206 | 203 | 220 | 201 | 177 | 183 | 816    | 1,317     |        |
| 1996 | 189 | 191 | 186 | 174 | 186 | 194 | 224 | 200 | 222 | 199 | 182 | 184 | 839    | 1,492     | 2,332  |
| 1997 | 192 | 183 | 194 | 186 | 181 | 197 | 198 | 210 | 203 | 206 | 179 | 184 | 808    | 1,506     | 2,314  |
| 1998 | 192 | 172 | 194 | 193 | 199 | 205 | 205 | 216 | 209 | 220 | 192 | 197 | 834    | 1,560     | 2,394  |
| 1999 | 188 | 187 | 200 | 195 | 202 | 208 | 215 | 220 | 228 | 222 | 209 | 208 | 872    | 1,610     | 2,482  |
| 2000 | 204 | 192 | 203 | 190 | 214 | 214 | 224 | 228 | 219 | 221 | 208 | 210 | 885    | 1,643     | 2,528  |
| 2001 | 211 | 193 | 207 | 199 | 213 | 218 | 241 | 228 | 220 | 221 | 200 | 205 | 906    | 1,650     | 2,557  |
| 2002 | 203 | 193 | 216 | 223 | 219 | 224 | 240 | 231 | 223 | 227 | 205 | 208 | 918    | 1,694     | 2,612  |
| 2003 | 205 | 188 | 204 | 193 | 207 | 219 | 230 | 229 | 220 | 228 | 208 | 212 | 898    | 1,644     | 2,542  |
| 2004 | 214 | 216 | 221 | 204 | 215 | 220 | 229 | 233 | 232 | 233 | 215 | 215 | 915    | 1,734     | 2,649  |
| 2005 | 224 | 201 | 206 | 213 | 220 | 230 | 236 | 235 | 230 | 236 | 216 | 217 | 932    | 1,731     | 2,663  |
| 2006 | 228 | 201 | 223 | 215 | 233 | 227 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-32: Commercial SGS forecast (Calendar month - GWh)**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 |     | 247 | 239 | 218 | 204 | 244 | 291 | 276 | 259 | 225 | 219 | 250 | 1,070  | 1,602     |        |
| 1996 | 266 | 250 | 231 | 201 | 213 | 253 | 312 | 277 | 262 | 224 | 226 | 255 | 1,103  | 1,867     | 2,970  |
| 1997 | 274 | 246 | 243 | 215 | 211 | 262 | 294 | 293 | 247 | 233 | 227 | 259 | 1,097  | 1,908     | 3,005  |
| 1998 | 278 | 238 | 244 | 223 | 229 | 270 | 302 | 300 | 253 | 248 | 241 | 274 | 1,126  | 1,975     | 3,101  |
| 1999 | 276 | 254 | 251 | 225 | 233 | 276 | 316 | 307 | 274 | 250 | 258 | 286 | 1,172  | 2,034     | 3,206  |
| 2000 | 293 | 260 | 255 | 222 | 245 | 282 | 326 | 316 | 265 | 249 | 259 | 290 | 1,190  | 2,074     | 3,264  |
| 2001 | 302 | 262 | 259 | 231 | 245 | 287 | 343 | 316 | 266 | 250 | 251 | 285 | 1,212  | 2,084     | 3,296  |
| 2002 | 293 | 262 | 268 | 255 | 251 | 293 | 342 | 318 | 269 | 255 | 255 | 287 | 1,222  | 2,125     | 3,347  |
| 2003 | 294 | 256 | 256 | 224 | 239 | 288 | 331 | 317 | 266 | 256 | 258 | 291 | 1,203  | 2,074     | 3,277  |
| 2004 | 304 | 285 | 273 | 235 | 246 | 289 | 331 | 321 | 278 | 262 | 265 | 295 | 1,219  | 2,166     | 3,385  |
| 2005 | 314 | 270 | 259 | 245 | 252 | 300 | 341 | 326 | 278 | 265 | 267 | 298 | 1,245  | 2,170     | 3,415  |
| 2006 | 320 | 271 | 276 | 247 | 265 | 298 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-33:** Commercial LGS heating-use forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 | 39  | 30  | 23  | 11  | 3   | 0   | 0   | 0   | 2   | 10  | 22  | 36  | 2      | 175       | 177    |
| 1996 | 41  | 31  | 23  | 12  | 4   | 0   | 0   | 0   | 2   | 10  | 23  | 38  | 2      | 181       | 184    |
| 1997 | 43  | 33  | 25  | 13  | 4   | 0   | 0   | 0   | 2   | 11  | 25  | 39  | 3      | 193       | 196    |
| 1998 | 45  | 34  | 26  | 13  | 4   | 0   | 0   | 0   | 2   | 11  | 25  | 40  | 3      | 196       | 199    |
| 1999 | 45  | 34  | 26  | 13  | 4   | 0   | 0   | 0   | 2   | 11  | 25  | 40  | 3      | 198       | 201    |
| 2000 | 46  | 35  | 26  | 13  | 4   | 0   | 0   | 0   | 2   | 11  | 26  | 41  | 3      | 201       | 204    |
| 2001 | 46  | 36  | 27  | 13  | 4   | 0   | 0   | 0   | 2   | 11  | 26  | 41  | 3      | 204       | 206    |
| 2002 | 46  | 36  | 26  | 13  | 4   | 0   | 0   | 0   | 2   | 11  | 26  | 41  | 3      | 204       | 207    |
| 2003 | 46  | 36  | 27  | 13  | 4   | 0   | 0   | 0   | 2   | 11  | 26  | 41  | 3      | 204       | 207    |
| 2004 | 47  | 36  | 26  | 13  | 4   | 0   | 0   | 0   | 2   | 11  | 26  | 41  | 3      | 204       | 207    |
| 2005 | 47  | 36  | 27  | 13  | 4   | 0   | 0   | 0   | 2   | 11  | 26  | 42  | 3      | 206       | 208    |
| 2006 | 47  | 36  | 27  | 14  | 4   | 0   |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-34:** Commercial LGS cooling-use forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |  |  |  |  |  |  |  |  |  |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|--|--|--|--|--|--|--|--|--|
| 1995 | 0   | 0   | 1   | 7   | 30  | 86  | 129 | 111 | 53  | 9   | 1   | 0   | 380    | 48        | 428    |  |  |  |  |  |  |  |  |  |
| 1996 | 0   | 0   | 1   | 7   | 30  | 88  | 133 | 115 | 55  | 9   | 1   | 0   | 391    | 50        | 440    |  |  |  |  |  |  |  |  |  |
| 1997 | 0   | 0   | 2   | 8   | 33  | 96  | 145 | 125 | 59  | 10  | 1   | 0   | 425    | 54        | 479    |  |  |  |  |  |  |  |  |  |
| 1998 | 0   | 0   | 2   | 8   | 33  | 96  | 144 | 124 | 59  | 10  | 1   | 0   | 422    | 54        | 476    |  |  |  |  |  |  |  |  |  |
| 1999 | 0   | 0   | 2   | 8   | 33  | 97  | 146 | 126 | 60  | 10  | 1   | 0   | 428    | 54        | 482    |  |  |  |  |  |  |  |  |  |
| 2000 | 0   | 0   | 2   | 8   | 34  | 99  | 149 | 128 | 61  | 10  | 1   | 0   | 437    | 55        | 492    |  |  |  |  |  |  |  |  |  |
| 2001 | 0   | 0   | 2   | 8   | 35  | 100 | 150 | 129 | 61  | 10  | 1   | 0   | 440    | 56        | 496    |  |  |  |  |  |  |  |  |  |
| 2002 | 0   | 0   | 2   | 8   | 35  | 100 | 150 | 130 | 61  | 10  | 1   | 0   | 441    | 56        | 498    |  |  |  |  |  |  |  |  |  |
| 2003 | 0   | 0   | 2   | 8   | 35  | 101 | 151 | 130 | 61  | 10  | 1   | 0   | 443    | 56        | 499    |  |  |  |  |  |  |  |  |  |
| 2004 | 0   | 0   | 2   | 8   | 35  | 100 | 151 | 130 | 62  | 10  | 1   | 0   | 443    | 56        | 499    |  |  |  |  |  |  |  |  |  |
| 2005 | 0   | 0   | 2   | 9   | 35  | 102 | 153 | 132 | 63  | 11  | 1   | 0   | 450    | 57        | 507    |  |  |  |  |  |  |  |  |  |
| 2006 | 0   | 0   | 2   | 9   | 36  | 104 |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |

**Table (5) (B)-35:** Commercial LGS other-use forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 | 403 | 369 | 374 | 344 | 349 | 360 | 358 | 349 | 392 | 378 | 349 | 370 | 1,459  | 2,936     | 4,395  |
| 1996 | 398 | 383 | 391 | 360 | 357 | 376 | 378 | 370 | 384 | 383 | 372 | 385 | 1,508  | 3,029     | 4,537  |
| 1997 | 410 | 382 | 381 | 378 | 350 | 386 | 371 | 360 | 384 | 389 | 372 | 393 | 1,501  | 3,054     | 4,555  |
| 1998 | 413 | 368 | 399 | 386 | 373 | 396 | 371 | 382 | 388 | 389 | 393 | 432 | 1,537  | 3,152     | 4,689  |
| 1999 | 396 | 398 | 412 | 464 | 426 | 426 | 378 | 387 | 414 | 456 | 448 | 465 | 1,604  | 3,464     | 5,069  |
| 2000 | 447 | 463 | 401 | 416 | 395 | 457 | 412 | 417 | 409 | 440 | 453 | 469 | 1,695  | 3,483     | 5,178  |
| 2001 | 533 | 402 | 428 | 413 | 423 | 428 | 456 | 432 | 433 | 457 | 412 | 476 | 1,749  | 3,544     | 5,293  |
| 2002 | 459 | 509 | 371 | 424 | 469 | 410 | 436 | 432 | 447 | 471 | 424 | 462 | 1,726  | 3,588     | 5,314  |
| 2003 | 475 | 465 | 475 | 434 | 450 | 461 | 454 | 449 | 465 | 469 | 465 | 537 | 1,829  | 3,771     | 5,600  |
| 2004 | 488 | 483 | 464 | 451 | 459 | 476 | 473 | 479 | 488 | 494 | 478 | 488 | 1,916  | 3,803     | 5,719  |
| 2005 | 522 | 470 | 482 | 475 | 473 | 488 | 490 | 489 | 500 | 522 | 479 | 514 | 1,967  | 3,938     | 5,905  |
| 2006 | 529 | 476 | 495 | 479 | 500 | 509 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |



**Table (5) (B)-36:** Commercial LGS heating-use forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 | 443 | 400 | 398 | 363 | 383 | 446 | 487 | 461 | 447 | 396 | 371 | 405 | 1,841  | 3,159     | 5,000  |
| 1996 | 439 | 414 | 416 | 379 | 391 | 465 | 511 | 485 | 441 | 402 | 396 | 423 | 1,902  | 3,259     | 5,161  |
| 1997 | 453 | 415 | 407 | 399 | 387 | 483 | 516 | 485 | 445 | 410 | 397 | 432 | 1,929  | 3,301     | 5,230  |
| 1998 | 457 | 402 | 426 | 407 | 410 | 493 | 514 | 506 | 449 | 410 | 418 | 472 | 1,962  | 3,402     | 5,364  |
| 1999 | 441 | 433 | 439 | 485 | 463 | 523 | 524 | 513 | 476 | 477 | 474 | 505 | 2,035  | 3,717     | 5,752  |
| 2000 | 493 | 498 | 429 | 437 | 433 | 557 | 561 | 546 | 472 | 462 | 479 | 510 | 2,135  | 3,740     | 5,875  |
| 2001 | 580 | 438 | 456 | 434 | 462 | 529 | 606 | 561 | 496 | 478 | 438 | 517 | 2,192  | 3,803     | 5,995  |
| 2002 | 505 | 544 | 399 | 446 | 508 | 511 | 587 | 561 | 511 | 493 | 451 | 503 | 2,170  | 3,848     | 6,018  |
| 2003 | 522 | 501 | 504 | 456 | 489 | 562 | 605 | 579 | 529 | 490 | 492 | 578 | 2,275  | 4,031     | 6,306  |
| 2004 | 535 | 518 | 492 | 472 | 497 | 577 | 623 | 609 | 552 | 515 | 504 | 529 | 2,362  | 4,063     | 6,425  |
| 2005 | 569 | 506 | 510 | 497 | 512 | 591 | 643 | 621 | 565 | 544 | 506 | 556 | 2,420  | 4,201     | 6,621  |
| 2006 | 576 | 513 | 523 | 501 | 540 | 613 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-37: Commercial SPS forecast (Calendar month - GWh)**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 2001 |     |     |     |     |     | 227 | 239 | 229 | 217 | 214 | 190 | 187 | 911    |           |        |
| 2002 | 213 | 203 | 195 | 197 | 213 | 233 | 247 | 244 | 223 | 224 | 197 | 185 | 948    | 1,627     | 2,575  |
| 2003 | 224 | 194 | 202 | 197 | 211 | 234 | 244 | 248 | 216 | 215 | 201 | 210 | 943    | 1,654     | 2,597  |
| 2004 | 220 | 202 | 192 | 207 | 220 | 232 | 256 | 248 | 224 | 232 | 200 | 207 | 961    | 1,681     | 2,642  |
| 2005 | 223 | 190 | 198 | 204 | 207 | 237 | 237 | 234 | 223 | 210 | 194 | 199 | 931    | 1,625     | 2,556  |
| 2006 | 226 | 194 | 193 | 195 | 205 | 227 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-38:** Commercial LPS forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 2001 |     | 74  | 57  | 80  | 75  | 87  | 90  | 90  | 91  | 76  | 83  | 70  | 358    | 516       | 874    |
| 2002 | 78  | 75  | 70  | 75  | 83  | 85  | 86  | 95  | 87  | 84  | 86  | 80  | 354    | 631       | 984    |
| 2003 | 84  | 81  | 77  | 81  | 82  | 89  | 99  | 93  | 89  | 95  | 90  | 82  | 371    | 672       | 1,043  |
| 2004 | 87  | 82  | 79  | 88  | 87  | 93  | 105 | 100 | 97  | 92  | 88  | 94  | 394    | 696       | 1,090  |
| 2005 | 96  | 92  | 85  | 91  | 93  | 108 | 115 | 123 | 117 | 107 | 103 | 102 | 464    | 770       | 1,234  |
| 2006 | 100 | 99  | 93  | 94  | 109 | 117 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-39: Industrial SGS forecast (Calendar month - GWh)**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 |     | 16  | 16  | 14  | 12  | 13  | 15  | 16  | 16  | 13  | 18  | 18  | 60     |           |        |
| 1996 | 17  | 17  | 16  | 15  | 12  | 14  | 15  | 15  | 15  | 14  | 19  | 19  | 59     | 130       | 189    |
| 1997 | 18  | 16  | 15  | 13  | 12  | 13  | 15  | 15  | 14  | 14  | 20  | 19  | 58     | 128       | 186    |
| 1998 | 17  | 15  | 15  | 14  | 12  | 14  | 16  | 15  | 15  | 14  | 17  | 16  | 60     | 121       | 181    |
| 1999 | 18  | 15  | 15  | 13  | 10  | 15  | 15  | 17  | 15  | 12  | 15  | 12  | 62     | 110       | 172    |
| 2000 | 16  | 14  | 13  | 10  | 11  | 13  | 15  | 16  | 14  | 15  | 15  | 15  | 57     | 110       | 168    |
| 2001 | 17  | 14  | 14  | 12  | 12  | 12  | 14  | 14  | 18  | 14  | 16  | 15  | 58     | 114       | 172    |
| 2002 | 14  | 14  | 13  | 12  | 11  | 12  | 16  | 14  | 13  | 14  | 15  | 15  | 54     | 110       | 164    |
| 2003 | 14  | 13  | 13  | 10  | 10  | 11  | 13  | 13  | 12  | 12  | 17  | 14  | 48     | 104       | 152    |
| 2004 | 13  | 13  | 11  | 10  | 10  | 11  | 12  | 12  | 11  | 14  | 16  | 14  | 47     | 101       | 148    |
| 2005 | 14  | 11  | 11  | 10  | 9   | 11  | 13  | 12  | 12  | 14  | 14  | 13  | 47     | 97        | 145    |
| 2006 | 12  | 11  | 11  | 10  | 9   | 11  |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-40: Industrial LGS forecast (Calendar month - GWh)**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 |     | 101 | 99  | 92  | 93  | 104 | 109 | 109 | 113 | 97  | 93  | 94  | 435    |           |        |
| 1996 | 98  | 100 | 100 | 96  | 93  | 107 | 111 | 111 | 112 | 98  | 97  | 97  | 440    | 779       | 1,219  |
| 1997 | 100 | 99  | 97  | 93  | 92  | 107 | 112 | 110 | 108 | 102 | 100 | 98  | 437    | 781       | 1,218  |
| 1998 | 100 | 97  | 103 | 97  | 93  | 112 | 110 | 113 | 108 | 102 | 98  | 93  | 443    | 783       | 1,226  |
| 1999 | 101 | 100 | 99  | 106 | 121 | 124 | 110 | 115 | 107 | 97  | 112 | 90  | 456    | 826       | 1,283  |
| 2000 | 97  | 104 | 100 | 88  | 99  | 112 | 114 | 125 | 114 | 110 | 111 | 96  | 466    | 805       | 1,271  |
| 2001 | 113 | 95  | 106 | 99  | 103 | 111 | 115 | 123 | 100 | 101 | 95  | 97  | 450    | 809       | 1,259  |
| 2002 | 98  | 97  | 102 | 108 | 85  | 113 | 119 | 103 | 107 | 100 | 92  | 93  | 442    | 776       | 1,217  |
| 2003 | 94  | 97  | 97  | 90  | 93  | 99  | 105 | 108 | 101 | 97  | 96  | 94  | 413    | 757       | 1,171  |
| 2004 | 90  | 95  | 91  | 89  | 96  | 104 | 106 | 105 | 99  | 99  | 93  | 95  | 414    | 748       | 1,162  |
| 2005 | 96  | 93  | 92  | 95  | 92  | 102 | 107 | 106 | 101 | 100 | 95  | 94  | 416    | 757       | 1,173  |
| 2006 | 97  | 89  | 88  | 87  | 90  | 98  |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

The results from the forecast for this class were adjusted according to information received from AmerenUE's Key Account Executives. A total of 4,800 MWh were subtracted from the model results in each year of the forecast period.

**Table (5) (B)-41:** Industrial SPS forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 |     | 149 | 150 | 141 | 143 | 155 | 165 | 163 | 163 | 155 | 152 | 153 | 648    |           |        |
| 1996 | 164 | 163 | 167 | 160 | 157 | 167 | 167 | 161 | 155 | 157 | 159 | 159 | 650    | 1,287     | 1,937  |
| 1997 | 168 | 166 | 165 | 163 | 163 | 178 | 179 | 175 | 168 | 162 | 160 | 162 | 699    | 1,309     | 2,008  |
| 1998 | 165 | 159 | 171 | 155 | 151 | 171 | 168 | 177 | 164 | 163 | 162 | 181 | 681    | 1,308     | 1,989  |
| 1999 | 165 | 138 | 173 | 176 | 129 | 177 | 152 | 158 | 148 | 165 | 153 | 151 | 635    | 1,249     | 1,884  |
| 2000 | 150 | 149 | 136 | 175 | 136 | 160 | 155 | 174 | 153 | 157 | 159 | 155 | 642    | 1,216     | 1,858  |
| 2001 | 161 | 160 | 169 | 146 | 150 | 152 | 159 | 156 | 149 | 147 | 131 | 136 | 616    | 1,199     | 1,816  |
| 2002 | 130 | 132 | 142 | 104 | 126 | 141 | 158 | 137 | 144 | 137 | 128 | 134 | 580    | 1,034     | 1,614  |
| 2003 | 131 | 130 | 126 | 108 | 136 | 132 | 141 | 137 | 129 | 126 | 128 | 126 | 539    | 1,011     | 1,550  |
| 2004 | 118 | 126 | 120 | 124 | 129 | 131 | 138 | 138 | 121 | 139 | 119 | 126 | 527    | 1,000     | 1,527  |
| 2005 | 130 | 117 | 118 | 119 | 121 | 129 | 129 | 126 | 129 | 123 | 121 | 122 | 512    | 970       | 1,482  |
| 2006 | 127 | 116 | 112 | 114 | 115 | 124 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

The results from the forecast for this class were adjusted according to information received from AmerenUE's Key Account Executives. A total of 6,820 MWh's were subtracted from the model results for 2007 and a total of 14,400 MWh's were subtracted from the model results for each one of the remaining years in the forecast period.

**Table (5) (B)-42: Industrial LPS forecast (Calendar month - GWh)**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 |     | 137 | 139 | 139 | 141 | 167 | 167 | 164 | 145 | 151 | 138 | 133 | 643    |           |        |
| 1996 | 152 | 139 | 140 | 145 | 148 | 155 | 167 | 165 | 153 | 149 | 142 | 140 | 640    | 1,155     | 1,795  |
| 1997 | 146 | 139 | 142 | 140 | 140 | 168 | 163 | 157 | 169 | 152 | 147 | 157 | 657    | 1,164     | 1,821  |
| 1998 | 149 | 152 | 160 | 152 | 157 | 181 | 167 | 158 | 167 | 151 | 151 | 195 | 674    | 1,267     | 1,940  |
| 1999 | 166 | 179 | 166 | 161 | 168 | 200 | 210 | 191 | 190 | 173 | 157 | 205 | 790    | 1,374     | 2,164  |
| 2000 | 170 | 197 | 169 | 160 | 161 | 208 | 230 | 302 | 259 | 230 | 232 | 251 | 999    | 1,569     | 2,567  |
| 2001 | 217 | 226 | 203 | 213 | 235 | 259 | 242 | 265 | 247 | 220 | 236 | 258 | 1,013  | 1,807     | 2,820  |
| 2002 | 233 | 239 | 222 | 254 | 252 | 255 | 251 | 301 | 256 | 271 | 247 | 244 | 1,063  | 1,961     | 3,025  |
| 2003 | 239 | 235 | 211 | 256 | 233 | 270 | 268 | 264 | 259 | 250 | 272 | 230 | 1,061  | 1,925     | 2,987  |
| 2004 | 250 | 232 | 223 | 262 | 246 | 255 | 287 | 260 | 261 | 253 | 251 | 249 | 1,063  | 1,966     | 3,029  |
| 2005 | 238 | 233 | 221 | 246 | 242 | 263 | 269 | 242 | 277 | 251 | 253 | 235 | 1,051  | 1,918     | 2,969  |
| 2006 | 231 | 232 | 206 | 225 | 228 | 271 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |



**Table (5) (B)-43:** Noranda forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 2005 | 0   | 0   | 0   | 0   | 0   | 332 | 341 | 336 | 321 | 338 | 332 | 345 | 1,331  |           |        |
| 2006 | 346 | 313 | 346 | 335 | 347 | 336 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-44:** DtD forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 1995 | 9   | 8   | 8   | 7   | 6   | 6   | 6   | 7   | 8   | 9   | 9   | 10  | 27     | 66        | 93     |
| 1996 | 10  | 8   | 8   | 7   | 7   | 6   | 6   | 7   | 8   | 9   | 9   | 10  | 27     | 67        | 94     |
| 1997 | 10  | 8   | 8   | 7   | 7   | 6   | 6   | 7   | 8   | 9   | 9   | 10  | 27     | 68        | 95     |
| 1998 | 10  | 8   | 8   | 7   | 7   | 6   | 7   | 7   | 8   | 9   | 9   | 10  | 28     | 68        | 96     |
| 1999 | 10  | 8   | 8   | 7   | 7   | 6   | 6   | 7   | 8   | 9   | 9   | 10  | 27     | 67        | 95     |
| 2000 | 10  | 8   | 8   | 7   | 7   | 6   | 6   | 7   | 8   | 9   | 9   | 10  | 27     | 68        | 96     |
| 2001 | 10  | 8   | 8   | 7   | 7   | 6   | 7   | 7   | 8   | 9   | 9   | 10  | 28     | 68        | 96     |
| 2002 | 10  | 9   | 9   | 8   | 7   | 7   | 7   | 7   | 8   | 8   | 9   | 11  | 28     | 70        | 97     |
| 2003 | 11  | 10  | 9   | 8   | 7   | 7   | 6   | 7   | 8   | 8   | 9   | 10  | 27     | 72        | 99     |
| 2004 | 11  | 9   | 9   | 8   | 7   | 7   | 7   | 7   | 8   | 8   | 9   | 10  | 28     | 72        | 100    |
| 2005 | 11  | 10  | 9   | 8   | 7   | 7   | 7   | 7   | 8   | 8   | 9   | 11  | 28     | 73        | 101    |
| 2006 | 11  | 10  | 9   | 8   | 7   | 7   |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-45:** Wholesale forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |  |  |  |  |  |  |  |  |  |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|--|--|--|--|--|--|--|--|--|
| 1999 |     | 40  | 41  | 38  | 41  | 50  | 62  | 58  | 45  | 40  | 41  | 47  | 215    |           |        |  |  |  |  |  |  |  |  |  |
| 2000 | 48  | 42  | 43  | 39  | 44  | 53  | 62  | 61  | 49  | 42  | 43  | 48  | 225    | 349       | 574    |  |  |  |  |  |  |  |  |  |
| 2001 | 49  | 43  | 43  | 38  | 42  | 51  | 60  | 58  | 47  | 41  | 41  | 46  | 215    | 344       | 559    |  |  |  |  |  |  |  |  |  |
| 2002 | 49  | 42  | 44  | 40  | 43  | 50  | 58  | 59  | 47  | 42  | 43  | 49  | 214    | 352       | 566    |  |  |  |  |  |  |  |  |  |
| 2003 | 52  | 43  | 46  | 41  | 45  | 53  | 64  | 60  | 48  | 44  | 44  | 51  | 225    | 365       | 591    |  |  |  |  |  |  |  |  |  |
| 2004 | 54  | 48  | 46  | 41  | 44  | 54  | 59  | 57  | 48  | 43  | 46  | 53  | 218    | 376       | 594    |  |  |  |  |  |  |  |  |  |
| 2005 | 56  | 47  | 48  | 43  | 45  | 54  | 58  | 62  | 62  | 58  | 45  | 46  | 236    | 388       | 624    |  |  |  |  |  |  |  |  |  |
| 2006 | 55  | 48  | 48  | 43  | 47  | 55  |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |

Wholesale contracts expire at the end of 2008.

**Table (5) (B)-46:** SLPA forecast (Calendar month - GWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |  |  |  |  |  |  |  |  |  |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|--|--|--|--|--|--|--|--|--|
| 1995 | 11  | 10  | 9   | 9   | 9   | 9   | 9   | 10  | 10  | 11  | 12  | 12  | 37     | 83        | 121    |  |  |  |  |  |  |  |  |  |
| 1996 | 11  | 10  | 10  | 9   | 9   | 9   | 9   | 10  | 10  | 11  | 12  | 13  | 37     | 84        | 122    |  |  |  |  |  |  |  |  |  |
| 1997 | 11  | 11  | 10  | 9   | 9   | 9   | 9   | 10  | 11  | 12  | 12  | 13  | 38     | 86        | 124    |  |  |  |  |  |  |  |  |  |
| 1998 | 11  | 11  | 10  | 9   | 9   | 9   | 9   | 10  | 12  | 10  | 6   | 6   | 40     | 72        | 112    |  |  |  |  |  |  |  |  |  |
| 1999 | 7   | 12  | 6   | 6   | 5   | 5   | 15  | 5   | 6   | 6   | 7   | 7   | 31     | 57        | 89     |  |  |  |  |  |  |  |  |  |
| 2000 | 7   | 9   | 6   | 5   | 5   | 5   | 5   | 9   | 6   | 6   | 7   | 7   | 25     | 53        | 78     |  |  |  |  |  |  |  |  |  |
| 2001 | 7   | 6   | 6   | 5   | 5   | 5   | 5   | 5   | 6   | 6   | 7   | 8   | 22     | 50        | 72     |  |  |  |  |  |  |  |  |  |
| 2002 | 18  | 5   | 11  | 9   | 9   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 37     | 91        | 128    |  |  |  |  |  |  |  |  |  |
| 2003 | 13  | 12  | 11  | 10  | 9   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 38     | 93        | 131    |  |  |  |  |  |  |  |  |  |
| 2004 | 13  | 11  | 11  | 10  | 9   | 9   | 9   | 10  | 11  | 12  | 13  | 14  | 38     | 94        | 132    |  |  |  |  |  |  |  |  |  |
| 2005 | 13  | 11  | 11  | 10  | 9   | 9   | 9   | 10  | 11  | 18  | 13  | 14  | 38     | 100       | 138    |  |  |  |  |  |  |  |  |  |
| 2006 | 7   | 11  | 11  | 10  | 9   | 9   |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |

**Table (5) (B)-47: Total system forecast (Calendar month - GWh)**

| Year | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Summer | NonSummer | Annual |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|--------|
| 2001 |       |       |       |       |       | 2,765 | 3,242 | 3,071 | 2,551 | 2,304 | 2,374 | 2,779 | 11,629 |           |        |
| 2002 | 2,929 | 2,853 | 2,468 | 2,251 | 2,336 | 2,772 | 3,237 | 3,095 | 2,611 | 2,400 | 2,430 | 2,865 | 11,715 | 20,319    | 32,034 |
| 2003 | 2,927 | 2,665 | 2,547 | 2,234 | 2,340 | 2,821 | 3,286 | 3,128 | 2,589 | 2,347 | 2,544 | 2,947 | 11,824 | 20,553    | 32,376 |
| 2004 | 3,054 | 2,778 | 2,558 | 2,330 | 2,345 | 2,823 | 3,302 | 3,150 | 2,661 | 2,467 | 2,555 | 2,940 | 11,936 | 21,028    | 32,963 |
| 2005 | 3,167 | 2,723 | 2,578 | 2,374 | 2,373 | 3,252 | 3,716 | 3,552 | 3,071 | 2,855 | 2,915 | 3,313 | 13,591 | 22,298    | 35,889 |
| 2006 | 3,547 | 3,045 | 2,965 | 2,689 | 2,823 | 3,305 |       |       |       |       |       |       |        |           |        |
| 2007 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2008 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2009 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2010 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2011 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2012 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2013 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2014 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2015 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2016 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2017 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2018 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2019 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2020 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2021 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2022 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2023 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2024 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2025 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2026 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2027 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2028 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2029 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2030 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |

Higher increase in sales in 2005 and 2006 is due to Noranda; AmerenUE started to serve Noranda in June 2005. Negative sales growth in 2009 is due to wholesale contract expiration.

Use-per-customer forecasts are provided below. As stated earlier, all subclass energy usage other than residential class was modeled on a total basis. The use-per-customer forecast provided below are obtained by dividing the sales forecast by the customer forecast. Residential sales were modeled on a use-per-customer basis, and total residential sales forecast was obtained by multiplying the use-per-customer forecast and the number of customer forecast.

**Table (5) (B)-48:** Residential heating-use use-per-customer forecast (Calendar month - MWh)

| Year | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Summer | NotSummer | Annual |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|--------|
| 1995 | 0.591 | 0.453 | 0.337 | 0.169 | 0.051 | 0.004 | 0.000 | 0.001 | 0.030 | 0.142 | 0.327 | 0.523 | 0.035  | 2.593     | 2.628  |
| 1996 | 0.598 | 0.458 | 0.341 | 0.171 | 0.052 | 0.004 | 0.000 | 0.001 | 0.030 | 0.144 | 0.331 | 0.530 | 0.035  | 2.623     | 2.658  |
| 1997 | 0.605 | 0.464 | 0.345 | 0.173 | 0.053 | 0.004 | 0.000 | 0.001 | 0.030 | 0.145 | 0.334 | 0.535 | 0.036  | 2.654     | 2.690  |
| 1998 | 0.611 | 0.468 | 0.349 | 0.174 | 0.053 | 0.004 | 0.000 | 0.001 | 0.031 | 0.147 | 0.337 | 0.540 | 0.036  | 2.680     | 2.716  |
| 1999 | 0.616 | 0.472 | 0.351 | 0.175 | 0.053 | 0.004 | 0.000 | 0.001 | 0.031 | 0.147 | 0.338 | 0.541 | 0.036  | 2.694     | 2.730  |
| 2000 | 0.617 | 0.473 | 0.353 | 0.176 | 0.054 | 0.004 | 0.000 | 0.001 | 0.031 | 0.148 | 0.341 | 0.546 | 0.036  | 2.708     | 2.744  |
| 2001 | 0.623 | 0.477 | 0.355 | 0.178 | 0.054 | 0.004 | 0.000 | 0.001 | 0.031 | 0.150 | 0.344 | 0.551 | 0.037  | 2.732     | 2.768  |
| 2002 | 0.630 | 0.482 | 0.359 | 0.180 | 0.055 | 0.005 | 0.000 | 0.001 | 0.032 | 0.151 | 0.348 | 0.557 | 0.037  | 2.761     | 2.798  |
| 2003 | 0.636 | 0.487 | 0.363 | 0.182 | 0.055 | 0.005 | 0.000 | 0.001 | 0.032 | 0.153 | 0.352 | 0.564 | 0.037  | 2.793     | 2.831  |
| 2004 | 0.645 | 0.494 | 0.368 | 0.184 | 0.056 | 0.005 | 0.000 | 0.001 | 0.032 | 0.155 | 0.358 | 0.573 | 0.038  | 2.833     | 2.871  |
| 2005 | 0.654 | 0.501 | 0.373 | 0.187 | 0.057 | 0.005 | 0.000 | 0.001 | 0.033 | 0.157 | 0.362 | 0.580 | 0.039  | 2.870     | 2.909  |
| 2006 | 0.662 | 0.507 | 0.378 | 0.189 | 0.058 | 0.005 |       |       |       |       |       |       |        |           |        |
| 2007 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2008 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2009 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2010 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2011 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2012 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2013 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2014 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2015 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2016 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2017 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2018 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2019 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2020 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2021 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2022 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2023 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2024 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2025 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2026 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2027 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2028 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2029 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2030 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |

**Table (5) (B)-49:** Residential cooling-use use-per-customer forecast (Calendar month - MWh)

| Year | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Summer | NotSummer | Annual |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|--------|
| 1995 | 0.000 | 0.000 | 0.008 | 0.041 | 0.170 | 0.492 | 0.738 | 0.635 | 0.301 | 0.051 | 0.004 | 0.000 | 2.166  | 0.275     | 2.441  |
| 1996 | 0.000 | 0.000 | 0.008 | 0.041 | 0.170 | 0.493 | 0.740 | 0.637 | 0.302 | 0.051 | 0.004 | 0.000 | 2.172  | 0.276     | 2.447  |
| 1997 | 0.000 | 0.000 | 0.008 | 0.042 | 0.171 | 0.494 | 0.741 | 0.638 | 0.302 | 0.051 | 0.004 | 0.000 | 2.176  | 0.277     | 2.453  |
| 1998 | 0.000 | 0.000 | 0.008 | 0.042 | 0.171 | 0.495 | 0.743 | 0.640 | 0.303 | 0.051 | 0.004 | 0.000 | 2.181  | 0.277     | 2.458  |
| 1999 | 0.000 | 0.000 | 0.008 | 0.042 | 0.171 | 0.493 | 0.739 | 0.636 | 0.301 | 0.051 | 0.004 | 0.000 | 2.170  | 0.276     | 2.446  |
| 2000 | 0.000 | 0.000 | 0.008 | 0.041 | 0.170 | 0.493 | 0.739 | 0.636 | 0.301 | 0.051 | 0.004 | 0.000 | 2.170  | 0.276     | 2.446  |
| 2001 | 0.000 | 0.000 | 0.008 | 0.042 | 0.171 | 0.493 | 0.740 | 0.637 | 0.302 | 0.051 | 0.004 | 0.000 | 2.172  | 0.276     | 2.448  |
| 2002 | 0.000 | 0.000 | 0.008 | 0.041 | 0.170 | 0.492 | 0.738 | 0.635 | 0.301 | 0.051 | 0.004 | 0.000 | 2.165  | 0.275     | 2.440  |
| 2003 | 0.000 | 0.000 | 0.008 | 0.042 | 0.171 | 0.495 | 0.742 | 0.639 | 0.303 | 0.051 | 0.004 | 0.000 | 2.179  | 0.277     | 2.456  |
| 2004 | 0.000 | 0.000 | 0.008 | 0.041 | 0.170 | 0.493 | 0.740 | 0.637 | 0.302 | 0.051 | 0.004 | 0.000 | 2.173  | 0.276     | 2.449  |
| 2005 | 0.000 | 0.000 | 0.008 | 0.042 | 0.173 | 0.501 | 0.752 | 0.648 | 0.307 | 0.052 | 0.004 | 0.000 | 2.208  | 0.281     | 2.488  |
| 2006 | 0.000 | 0.000 | 0.008 | 0.042 | 0.173 | 0.501 |       |       |       |       |       |       |        |           |        |
| 2007 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2008 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2009 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2010 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2011 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2012 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2013 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2014 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2015 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2016 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2017 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2018 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2019 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2020 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2021 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2022 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2023 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2024 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2025 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2026 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2027 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2028 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2029 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2030 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |

**Table (5) (B)-50:** Residential other-use use-per-customer forecast (Calendar month - MWh)

| Year | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Summer | NonSummer | Annual |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|--------|
| 1995 |       | 0.534 | 0.535 | 0.476 | 0.506 | 0.452 | 0.537 | 0.592 | 0.658 | 0.518 | 0.461 | 0.504 | 2.239  |           |        |
| 1996 | 0.553 | 0.531 | 0.570 | 0.513 | 0.484 | 0.480 | 0.619 | 0.620 | 0.590 | 0.534 | 0.477 | 0.532 | 2.310  | 4.194     | 6.504  |
| 1997 | 0.602 | 0.521 | 0.551 | 0.520 | 0.474 | 0.509 | 0.541 | 0.624 | 0.571 | 0.517 | 0.476 | 0.551 | 2.245  | 4.212     | 6.457  |
| 1998 | 0.618 | 0.519 | 0.539 | 0.518 | 0.530 | 0.550 | 0.602 | 0.617 | 0.579 | 0.541 | 0.505 | 0.570 | 2.349  | 4.339     | 6.689  |
| 1999 | 0.585 | 0.559 | 0.555 | 0.525 | 0.528 | 0.536 | 0.623 | 0.655 | 0.598 | 0.535 | 0.510 | 0.559 | 2.411  | 4.357     | 6.768  |
| 2000 | 0.616 | 0.538 | 0.547 | 0.495 | 0.518 | 0.573 | 0.657 | 0.681 | 0.625 | 0.561 | 0.527 | 0.606 | 2.535  | 4.407     | 6.942  |
| 2001 | 0.648 | 0.534 | 0.569 | 0.501 | 0.477 | 0.568 | 0.657 | 0.642 | 0.595 | 0.564 | 0.550 | 0.624 | 2.463  | 4.467     | 6.930  |
| 2002 | 0.681 | 0.567 | 0.631 | 0.536 | 0.536 | 0.587 | 0.642 | 0.631 | 0.618 | 0.569 | 0.555 | 0.710 | 2.477  | 4.785     | 7.262  |
| 2003 | 0.621 | 0.611 | 0.630 | 0.535 | 0.564 | 0.577 | 0.666 | 0.663 | 0.590 | 0.541 | 0.573 | 0.684 | 2.496  | 4.760     | 7.256  |
| 2004 | 0.715 | 0.660 | 0.632 | 0.559 | 0.528 | 0.564 | 0.626 | 0.646 | 0.613 | 0.587 | 0.586 | 0.676 | 2.449  | 4.943     | 7.392  |
| 2005 | 0.742 | 0.628 | 0.622 | 0.569 | 0.548 | 0.595 | 0.685 | 0.681 | 0.615 | 0.601 | 0.584 | 0.679 | 2.576  | 4.973     | 7.548  |
| 2006 | 0.750 | 0.609 | 0.640 | 0.573 | 0.607 | 0.615 |       |       |       |       |       |       |        |           |        |
| 2007 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2008 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2009 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2010 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2011 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2012 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2013 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2014 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2015 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2016 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2017 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2018 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2019 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2020 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2021 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2022 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2023 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2024 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2025 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2026 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2027 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2028 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2029 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |
| 2030 |       |       |       |       |       |       |       |       |       |       |       |       |        |           |        |



**Table (5) (B)-51:** Residential use-per-customer forecast (Calendar month - MWh)

| Year | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Summer | NonSummer | Annual |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-----------|--------|
| 1995 | 0.00 | 0.99 | 0.88 | 0.69 | 0.73 | 0.95 | 1.28 | 1.23 | 0.99 | 0.71 | 0.79 | 1.03 | 4.44   | 5.81      | 10.25  |
| 1996 | 1.15 | 0.99 | 0.92 | 0.73 | 0.71 | 0.98 | 1.36 | 1.26 | 0.92 | 0.73 | 0.81 | 1.06 | 4.52   | 7.09      | 11.61  |
| 1997 | 1.21 | 0.99 | 0.90 | 0.73 | 0.70 | 1.01 | 1.28 | 1.26 | 0.90 | 0.71 | 0.81 | 1.09 | 4.46   | 7.14      | 11.60  |
| 1998 | 1.23 | 0.99 | 0.90 | 0.73 | 0.75 | 1.05 | 1.35 | 1.26 | 0.91 | 0.74 | 0.85 | 1.11 | 4.57   | 7.30      | 11.88  |
| 1999 | 1.20 | 1.03 | 0.91 | 0.74 | 0.75 | 1.03 | 1.36 | 1.29 | 0.93 | 0.73 | 0.85 | 1.10 | 4.62   | 7.33      | 11.94  |
| 2000 | 1.23 | 1.01 | 0.91 | 0.71 | 0.74 | 1.07 | 1.40 | 1.32 | 0.96 | 0.76 | 0.87 | 1.15 | 4.74   | 7.39      | 12.13  |
| 2001 | 1.27 | 1.01 | 0.93 | 0.72 | 0.70 | 1.07 | 1.40 | 1.28 | 0.93 | 0.76 | 0.90 | 1.18 | 4.67   | 7.47      | 12.15  |
| 2002 | 1.31 | 1.05 | 1.00 | 0.76 | 0.76 | 1.08 | 1.38 | 1.27 | 0.95 | 0.77 | 0.91 | 1.27 | 4.68   | 7.82      | 12.50  |
| 2003 | 1.26 | 1.10 | 1.00 | 0.76 | 0.79 | 1.08 | 1.41 | 1.30 | 0.93 | 0.75 | 0.93 | 1.25 | 4.71   | 7.83      | 12.54  |
| 2004 | 1.36 | 1.15 | 1.01 | 0.78 | 0.75 | 1.06 | 1.37 | 1.28 | 0.95 | 0.79 | 0.95 | 1.25 | 4.66   | 8.05      | 12.71  |
| 2005 | 1.40 | 1.13 | 1.00 | 0.80 | 0.78 | 1.10 | 1.44 | 1.33 | 0.95 | 0.81 | 0.95 | 1.26 | 4.82   | 8.12      | 12.95  |
| 2006 | 1.41 | 1.12 | 1.03 | 0.80 | 0.84 | 1.12 |      |      |      |      |      |      |        |           |        |
| 2007 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2008 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2009 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2010 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2011 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2012 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2013 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2014 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2015 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2016 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2017 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2018 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2019 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2020 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2021 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2022 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2024 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2025 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2026 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2027 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2028 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2029 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2030 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |

**Table (5) (B)-52:** ComSGS heating-use use-per-customer forecast (Calendar month - MWh)

| Year | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Summer | NonSummer | Annual |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-----------|--------|
| 1995 | 0.72 | 0.55 | 0.41 | 0.21 | 0.06 | 0.01 | 0.00 | 0.00 | 0.04 | 0.18 | 0.40 | 0.64 | 0.04   | 3.18      | 3.22   |
| 1996 | 0.74 | 0.56 | 0.42 | 0.21 | 0.06 | 0.01 | 0.00 | 0.00 | 0.04 | 0.18 | 0.42 | 0.67 | 0.04   | 3.25      | 3.30   |
| 1997 | 0.77 | 0.59 | 0.44 | 0.22 | 0.07 | 0.01 | 0.00 | 0.00 | 0.04 | 0.19 | 0.43 | 0.69 | 0.05   | 3.40      | 3.44   |
| 1998 | 0.78 | 0.60 | 0.44 | 0.22 | 0.07 | 0.01 | 0.00 | 0.00 | 0.04 | 0.19 | 0.43 | 0.69 | 0.05   | 3.41      | 3.45   |
| 1999 | 0.77 | 0.59 | 0.44 | 0.22 | 0.07 | 0.01 | 0.00 | 0.00 | 0.04 | 0.18 | 0.42 | 0.67 | 0.04   | 3.36      | 3.41   |
| 2000 | 0.75 | 0.57 | 0.43 | 0.21 | 0.06 | 0.01 | 0.00 | 0.00 | 0.04 | 0.18 | 0.41 | 0.66 | 0.04   | 3.27      | 3.32   |
| 2001 | 0.74 | 0.57 | 0.42 | 0.21 | 0.06 | 0.01 | 0.00 | 0.00 | 0.04 | 0.18 | 0.40 | 0.64 | 0.04   | 3.23      | 3.27   |
| 2002 | 0.73 | 0.56 | 0.41 | 0.21 | 0.06 | 0.01 | 0.00 | 0.00 | 0.04 | 0.17 | 0.40 | 0.63 | 0.04   | 3.17      | 3.21   |
| 2003 | 0.71 | 0.55 | 0.41 | 0.20 | 0.06 | 0.01 | 0.00 | 0.00 | 0.04 | 0.17 | 0.38 | 0.61 | 0.04   | 3.09      | 3.13   |
| 2004 | 0.69 | 0.53 | 0.39 | 0.20 | 0.06 | 0.00 | 0.00 | 0.00 | 0.03 | 0.16 | 0.38 | 0.61 | 0.04   | 3.01      | 3.05   |
| 2005 | 0.68 | 0.52 | 0.39 | 0.20 | 0.06 | 0.00 | 0.00 | 0.00 | 0.03 | 0.17 | 0.38 | 0.61 | 0.04   | 3.01      | 3.05   |
| 2006 | 0.69 | 0.53 | 0.39 | 0.20 | 0.06 | 0.00 |      |      |      |      |      |      |        |           |        |
| 2007 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2008 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2009 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2010 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2011 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2012 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2013 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2014 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2015 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2016 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2017 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2018 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2019 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2020 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2021 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2022 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2024 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2025 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2026 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2027 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2028 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2029 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2030 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |

**Table (5) (B)-53:** ComSGS cooling-use use-per-customer forecast (Calendar month - MWh)

| Year | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Summer | NonSummer | Annual |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-----------|--------|
| 1995 | 0.00 | 0.00 | 0.01 | 0.05 | 0.19 | 0.55 | 0.83 | 0.71 | 0.34 | 0.06 | 0.00 | 0.00 | 2.43   | 0.31      | 2.73   |
| 1996 | 0.00 | 0.00 | 0.01 | 0.05 | 0.19 | 0.56 | 0.84 | 0.72 | 0.34 | 0.06 | 0.00 | 0.00 | 2.46   | 0.31      | 2.77   |
| 1997 | 0.00 | 0.00 | 0.01 | 0.05 | 0.20 | 0.59 | 0.89 | 0.77 | 0.36 | 0.06 | 0.00 | 0.00 | 2.61   | 0.33      | 2.94   |
| 1998 | 0.00 | 0.00 | 0.01 | 0.05 | 0.20 | 0.58 | 0.87 | 0.75 | 0.35 | 0.06 | 0.00 | 0.00 | 2.56   | 0.33      | 2.88   |
| 1999 | 0.00 | 0.00 | 0.01 | 0.05 | 0.20 | 0.58 | 0.87 | 0.75 | 0.35 | 0.06 | 0.00 | 0.00 | 2.55   | 0.32      | 2.88   |
| 2000 | 0.00 | 0.00 | 0.01 | 0.05 | 0.19 | 0.56 | 0.85 | 0.73 | 0.34 | 0.06 | 0.00 | 0.00 | 2.48   | 0.32      | 2.80   |
| 2001 | 0.00 | 0.00 | 0.01 | 0.05 | 0.19 | 0.56 | 0.84 | 0.72 | 0.34 | 0.06 | 0.00 | 0.00 | 2.46   | 0.31      | 2.76   |
| 2002 | 0.00 | 0.00 | 0.01 | 0.05 | 0.19 | 0.55 | 0.82 | 0.71 | 0.34 | 0.06 | 0.00 | 0.00 | 2.42   | 0.31      | 2.73   |
| 2003 | 0.00 | 0.00 | 0.01 | 0.04 | 0.18 | 0.53 | 0.79 | 0.68 | 0.32 | 0.05 | 0.00 | 0.00 | 2.33   | 0.30      | 2.63   |
| 2004 | 0.00 | 0.00 | 0.01 | 0.04 | 0.18 | 0.52 | 0.78 | 0.67 | 0.32 | 0.05 | 0.00 | 0.00 | 2.29   | 0.29      | 2.58   |
| 2005 | 0.00 | 0.00 | 0.01 | 0.04 | 0.18 | 0.53 | 0.79 | 0.68 | 0.32 | 0.05 | 0.00 | 0.00 | 2.32   | 0.29      | 2.61   |
| 2006 | 0.00 | 0.00 | 0.01 | 0.04 | 0.18 | 0.53 |      |      |      |      |      |      |        |           |        |
| 2007 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2008 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2009 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2010 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2011 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2012 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2013 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2014 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2015 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2016 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2017 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2018 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2019 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2020 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2021 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2022 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2024 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2025 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2026 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2027 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2028 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2029 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2030 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |

**Table (5) (B)-54:** ComSGS other-use use-per-customer forecast (Calendar month - MWh)

| Year | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Summer | NonSummer | Annual |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-----------|--------|
| 1995 |      | 1.86 | 1.90 | 1.87 | 1.73 | 1.81 | 2.00 | 1.97 | 2.14 | 1.95 | 1.71 | 1.77 | 7.92   |           |        |
| 1996 | 1.82 | 1.83 | 1.78 | 1.67 | 1.78 | 1.84 | 2.12 | 1.90 | 2.10 | 1.88 | 1.71 | 1.73 | 7.97   | 14.20     | 22.17  |
| 1997 | 1.80 | 1.71 | 1.81 | 1.73 | 1.68 | 1.82 | 1.82 | 1.93 | 1.87 | 1.90 | 1.64 | 1.67 | 7.44   | 13.95     | 21.39  |
| 1998 | 1.75 | 1.56 | 1.75 | 1.74 | 1.78 | 1.83 | 1.82 | 1.92 | 1.85 | 1.96 | 1.71 | 1.76 | 7.42   | 14.00     | 21.43  |
| 1999 | 1.67 | 1.64 | 1.76 | 1.71 | 1.77 | 1.81 | 1.87 | 1.90 | 1.97 | 1.90 | 1.78 | 1.76 | 7.55   | 13.99     | 21.54  |
| 2000 | 1.73 | 1.61 | 1.70 | 1.59 | 1.78 | 1.78 | 1.86 | 1.89 | 1.81 | 1.82 | 1.72 | 1.73 | 7.34   | 13.67     | 21.00  |
| 2001 | 1.73 | 1.58 | 1.69 | 1.63 | 1.74 | 1.78 | 1.96 | 1.86 | 1.79 | 1.80 | 1.63 | 1.67 | 7.40   | 13.47     | 20.87  |
| 2002 | 1.64 | 1.56 | 1.74 | 1.80 | 1.77 | 1.81 | 1.94 | 1.87 | 1.80 | 1.82 | 1.64 | 1.66 | 7.42   | 13.64     | 21.06  |
| 2003 | 1.63 | 1.50 | 1.63 | 1.51 | 1.63 | 1.72 | 1.79 | 1.79 | 1.71 | 1.76 | 1.61 | 1.63 | 7.01   | 12.90     | 19.91  |
| 2004 | 1.65 | 1.67 | 1.70 | 1.57 | 1.65 | 1.69 | 1.76 | 1.79 | 1.77 | 1.78 | 1.64 | 1.63 | 7.00   | 13.30     | 20.30  |
| 2005 | 1.70 | 1.52 | 1.56 | 1.61 | 1.66 | 1.73 | 1.78 | 1.77 | 1.73 | 1.77 | 1.61 | 1.62 | 7.02   | 13.05     | 20.07  |
| 2006 | 1.70 | 1.50 | 1.66 | 1.60 | 1.73 | 1.69 |      |      |      |      |      |      |        |           |        |
| 2007 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2008 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2009 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2010 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2011 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2012 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2013 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2014 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2015 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2016 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2017 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2018 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2019 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2020 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2021 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2022 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2024 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2025 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2026 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2027 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2028 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2029 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2030 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |

**Table (5) (B)-55:** Commercial SGS use-per-customer forecast (Calendar month - MWh)

| Year | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Summer | NonSummer | Annual |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-----------|--------|
| 1995 |      | 2.42 | 2.32 | 2.12 | 1.99 | 2.37 | 2.83 | 2.68 | 2.51 | 2.19 | 2.11 | 2.41 | 10.39  |           |        |
| 1996 | 2.56 | 2.40 | 2.21 | 1.92 | 2.03 | 2.41 | 2.96 | 2.63 | 2.48 | 2.12 | 2.13 | 2.40 | 10.47  | 17.77     | 28.24  |
| 1997 | 2.57 | 2.30 | 2.26 | 2.00 | 1.95 | 2.42 | 2.71 | 2.69 | 2.27 | 2.15 | 2.08 | 2.36 | 10.10  | 17.68     | 27.77  |
| 1998 | 2.53 | 2.16 | 2.20 | 2.01 | 2.05 | 2.42 | 2.70 | 2.67 | 2.24 | 2.20 | 2.14 | 2.44 | 10.02  | 17.74     | 27.76  |
| 1999 | 2.44 | 2.24 | 2.21 | 1.98 | 2.04 | 2.40 | 2.74 | 2.65 | 2.36 | 2.14 | 2.20 | 2.43 | 10.15  | 17.67     | 27.82  |
| 2000 | 2.48 | 2.19 | 2.13 | 1.85 | 2.04 | 2.35 | 2.71 | 2.62 | 2.19 | 2.06 | 2.13 | 2.38 | 9.86   | 17.26     | 27.12  |
| 2001 | 2.47 | 2.15 | 2.13 | 1.89 | 2.00 | 2.35 | 2.80 | 2.58 | 2.17 | 2.03 | 2.04 | 2.31 | 9.89   | 17.02     | 26.91  |
| 2002 | 2.37 | 2.11 | 2.16 | 2.05 | 2.02 | 2.37 | 2.77 | 2.58 | 2.17 | 2.05 | 2.05 | 2.29 | 9.89   | 17.11     | 27.00  |
| 2003 | 2.33 | 2.05 | 2.04 | 1.76 | 1.87 | 2.25 | 2.59 | 2.47 | 2.07 | 1.99 | 2.00 | 2.24 | 9.39   | 16.28     | 25.67  |
| 2004 | 2.34 | 2.20 | 2.10 | 1.81 | 1.89 | 2.22 | 2.54 | 2.46 | 2.12 | 2.00 | 2.02 | 2.24 | 9.34   | 16.60     | 25.94  |
| 2005 | 2.38 | 2.04 | 1.96 | 1.85 | 1.90 | 2.27 | 2.58 | 2.45 | 2.09 | 1.99 | 2.00 | 2.23 | 9.38   | 16.35     | 25.73  |
| 2006 | 2.39 | 2.03 | 2.06 | 1.84 | 1.97 | 2.22 |      |      |      |      |      |      |        |           |        |
| 2007 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2008 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2009 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2010 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2011 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2012 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2013 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2014 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2015 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2016 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2017 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2018 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2019 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2020 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2021 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2022 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2024 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2025 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2026 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2027 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2028 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2029 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2030 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |

**Table (5) (B)-56:** ComLGS heating-use use-per-customer forecast (Calendar month - MWh)

| Year | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Summer | NonSummer | Annual |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-----------|--------|
| 1995 | 7.18 | 5.51 | 4.11 | 2.06 | 0.63 | 0.05 | 0.00 | 0.01 | 0.35 | 1.68 | 3.86 | 6.18 | 0.42   | 31.21     | 31.63  |
| 1996 | 7.03 | 5.38 | 4.00 | 1.99 | 0.61 | 0.05 | 0.00 | 0.01 | 0.35 | 1.67 | 3.88 | 6.25 | 0.41   | 30.82     | 31.23  |
| 1997 | 7.19 | 5.54 | 4.14 | 2.08 | 0.64 | 0.05 | 0.00 | 0.01 | 0.36 | 1.73 | 3.98 | 6.37 | 0.43   | 31.67     | 32.10  |
| 1998 | 7.21 | 5.53 | 4.12 | 2.06 | 0.63 | 0.05 | 0.00 | 0.01 | 0.35 | 1.68 | 3.85 | 6.26 | 0.41   | 31.35     | 31.76  |
| 1999 | 7.10 | 5.44 | 4.21 | 2.05 | 0.62 | 0.05 | 0.00 | 0.01 | 0.36 | 1.69 | 3.91 | 6.21 | 0.42   | 31.21     | 31.63  |
| 2000 | 6.86 | 5.28 | 3.93 | 1.95 | 0.59 | 0.05 | 0.00 | 0.01 | 0.33 | 1.59 | 3.65 | 5.86 | 0.39   | 29.70     | 30.10  |
| 2001 | 6.33 | 5.05 | 3.75 | 1.88 | 0.57 | 0.05 | 0.00 | 0.01 | 0.32 | 1.52 | 3.57 | 5.70 | 0.37   | 28.37     | 28.74  |
| 2002 | 6.08 | 4.73 | 3.54 | 1.78 | 0.54 | 0.04 | 0.00 | 0.01 | 0.31 | 1.45 | 3.36 | 5.41 | 0.36   | 26.89     | 27.25  |
| 2003 | 5.98 | 4.64 | 3.48 | 1.74 | 0.53 | 0.04 | 0.00 | 0.01 | 0.30 | 1.40 | 3.21 | 5.18 | 0.35   | 26.16     | 26.51  |
| 2004 | 5.83 | 4.46 | 3.32 | 1.66 | 0.51 | 0.04 | 0.00 | 0.01 | 0.29 | 1.38 | 3.17 | 5.08 | 0.34   | 25.41     | 25.75  |
| 2005 | 5.73 | 4.39 | 3.27 | 1.64 | 0.50 | 0.04 | 0.00 | 0.01 | 0.28 | 1.36 | 3.12 | 4.97 | 0.33   | 24.96     | 25.29  |
| 2006 | 5.64 | 4.31 | 3.21 | 1.61 | 0.49 | 0.04 |      |      |      |      |      |      |        |           |        |
| 2007 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2008 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2009 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2010 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2011 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2012 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2013 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2014 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2015 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2016 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2017 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2018 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2019 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2020 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2021 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2022 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2024 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2025 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2026 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2027 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2028 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2029 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2030 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |

**Table (5) (B)-57:** ComLGS cooling-use use-per-customer forecast (Calendar month - MWh)

| Year | Jan  | Feb  | Mar  | Apr  | May  | Jun   | Jul   | Aug   | Sep  | Oct  | Nov  | Dec  | Summer | NonSummer | Annual |
|------|------|------|------|------|------|-------|-------|-------|------|------|------|------|--------|-----------|--------|
| 1995 | 0.00 | 0.01 | 0.26 | 1.31 | 5.37 | 15.60 | 23.19 | 19.82 | 9.30 | 1.57 | 0.11 | 0.01 | 67.91  | 8.65      | 76.56  |
| 1996 | 0.00 | 0.01 | 0.26 | 1.27 | 5.20 | 15.06 | 22.40 | 19.29 | 9.17 | 1.56 | 0.11 | 0.01 | 65.92  | 8.42      | 74.34  |
| 1997 | 0.00 | 0.01 | 0.27 | 1.33 | 5.47 | 15.91 | 23.69 | 20.32 | 9.57 | 1.62 | 0.12 | 0.01 | 69.50  | 8.82      | 78.31  |
| 1998 | 0.00 | 0.01 | 0.26 | 1.30 | 5.36 | 15.50 | 22.85 | 19.59 | 9.22 | 1.56 | 0.11 | 0.01 | 67.16  | 8.62      | 75.78  |
| 1999 | 0.00 | 0.01 | 0.27 | 1.30 | 5.31 | 15.30 | 22.77 | 19.75 | 9.30 | 1.57 | 0.11 | 0.01 | 67.13  | 8.58      | 75.71  |
| 2000 | 0.00 | 0.01 | 0.25 | 1.24 | 5.09 | 14.58 | 21.75 | 18.72 | 8.76 | 1.48 | 0.11 | 0.01 | 63.81  | 8.18      | 71.99  |
| 2001 | 0.00 | 0.01 | 0.24 | 1.19 | 4.88 | 13.95 | 20.90 | 17.59 | 8.34 | 1.41 | 0.11 | 0.01 | 60.78  | 7.86      | 68.64  |
| 2002 | 0.00 | 0.01 | 0.23 | 1.13 | 4.66 | 13.34 | 19.89 | 17.14 | 8.01 | 1.35 | 0.10 | 0.01 | 58.38  | 7.49      | 65.87  |
| 2003 | 0.00 | 0.01 | 0.22 | 1.11 | 4.55 | 13.09 | 19.32 | 16.55 | 7.80 | 1.31 | 0.09 | 0.01 | 56.77  | 7.30      | 64.07  |
| 2004 | 0.00 | 0.01 | 0.21 | 1.06 | 4.37 | 12.55 | 18.76 | 16.08 | 7.61 | 1.29 | 0.09 | 0.01 | 55.00  | 7.05      | 62.05  |
| 2005 | 0.00 | 0.01 | 0.21 | 1.05 | 4.33 | 12.44 | 18.60 | 15.83 | 7.50 | 1.28 | 0.09 | 0.01 | 54.38  | 6.98      | 61.36  |
| 2006 | 0.00 | 0.01 | 0.21 | 1.04 | 4.25 | 12.16 |       |       |      |      |      |      |        |           |        |
| 2007 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2008 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2009 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2010 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2011 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2012 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2013 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2014 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2015 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2016 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2017 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2018 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2019 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2020 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2021 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2022 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2023 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2024 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2025 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2026 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2027 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2028 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2029 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |
| 2030 |      |      |      |      |      |       |       |       |      |      |      |      |        |           |        |



**Table (5) (B)-58:** ComLGS other-use use-per-customer forecast (Calendar month - MWh)

| Year | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Summer | NonSummer | Annual |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-----------|--------|
| 1995 | 73.4 | 67.2 | 68.0 | 62.4 | 63.2 | 65.2 | 64.1 | 62.1 | 69.1 | 66.0 | 60.7 | 64.2 | 260.4  | 525.2     | 785.6  |
| 1996 | 68.8 | 65.9 | 67.2 | 61.7 | 61.1 | 64.3 | 63.7 | 62.1 | 64.2 | 63.7 | 61.9 | 64.0 | 254.3  | 514.3     | 768.6  |
| 1997 | 68.1 | 63.3 | 62.9 | 62.5 | 57.7 | 63.8 | 60.6 | 58.5 | 62.1 | 62.7 | 59.9 | 63.3 | 245.0  | 500.4     | 745.4  |
| 1998 | 66.4 | 59.2 | 64.3 | 62.4 | 60.3 | 64.1 | 58.9 | 60.4 | 61.0 | 60.9 | 61.3 | 68.3 | 244.4  | 503.1     | 747.4  |
| 1999 | 62.6 | 63.0 | 67.6 | 74.0 | 67.6 | 67.3 | 59.0 | 60.8 | 64.4 | 70.3 | 69.6 | 71.6 | 251.5  | 546.4     | 797.9  |
| 2000 | 67.1 | 69.9 | 60.3 | 62.0 | 58.9 | 67.5 | 60.2 | 60.8 | 58.8 | 62.8 | 64.6 | 67.0 | 247.3  | 512.6     | 759.9  |
| 2001 | 72.7 | 57.1 | 60.6 | 58.5 | 59.8 | 59.7 | 63.5 | 59.1 | 59.1 | 62.1 | 57.3 | 66.2 | 241.4  | 494.3     | 735.7  |
| 2002 | 60.0 | 67.7 | 49.5 | 56.9 | 63.1 | 54.6 | 57.7 | 57.1 | 58.5 | 61.2 | 55.4 | 60.7 | 227.9  | 474.4     | 702.4  |
| 2003 | 61.2 | 60.5 | 62.1 | 56.6 | 58.7 | 59.8 | 58.2 | 57.4 | 59.2 | 59.1 | 58.3 | 67.8 | 234.5  | 484.2     | 718.7  |
| 2004 | 61.2 | 60.6 | 58.2 | 56.5 | 57.7 | 59.5 | 58.7 | 59.2 | 60.2 | 60.7 | 58.8 | 60.0 | 237.7  | 473.8     | 711.5  |
| 2005 | 64.2 | 57.8 | 59.0 | 58.3 | 58.0 | 59.5 | 59.4 | 58.6 | 59.8 | 62.5 | 57.3 | 61.2 | 237.3  | 478.3     | 715.6  |
| 2006 | 63.1 | 56.7 | 58.9 | 57.0 | 59.4 | 59.7 |      |      |      |      |      |      |        |           |        |
| 2007 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2008 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2009 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2010 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2011 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2012 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2013 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2014 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2015 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2016 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2017 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2018 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2019 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2020 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2021 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2022 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2024 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2025 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2026 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2027 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2028 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2029 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2030 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |

**Table (5) (B)-59:** Commercial LGS use-per-customer forecast (Calendar month - MWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |  |  |  |  |  |  |  |  |  |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|--|--|--|--|--|--|--|--|--|
| 1995 | 81  | 73  | 72  | 66  | 69  | 81  | 87  | 82  | 79  | 69  | 65  | 70  | 329    | 565       | 894    |  |  |  |  |  |  |  |  |  |
| 1996 | 76  | 71  | 71  | 65  | 67  | 79  | 86  | 81  | 74  | 67  | 66  | 70  | 321    | 554       | 874    |  |  |  |  |  |  |  |  |  |
| 1997 | 75  | 69  | 67  | 66  | 64  | 80  | 84  | 79  | 72  | 66  | 64  | 70  | 315    | 541       | 856    |  |  |  |  |  |  |  |  |  |
| 1998 | 74  | 65  | 69  | 66  | 66  | 80  | 82  | 80  | 71  | 64  | 65  | 75  | 312    | 543       | 855    |  |  |  |  |  |  |  |  |  |
| 1999 | 70  | 68  | 72  | 77  | 74  | 83  | 82  | 81  | 74  | 74  | 74  | 78  | 319    | 586       | 905    |  |  |  |  |  |  |  |  |  |
| 2000 | 74  | 75  | 64  | 65  | 65  | 82  | 82  | 80  | 68  | 66  | 68  | 73  | 312    | 551       | 862    |  |  |  |  |  |  |  |  |  |
| 2001 | 79  | 62  | 65  | 62  | 65  | 74  | 84  | 77  | 68  | 65  | 61  | 72  | 303    | 530       | 833    |  |  |  |  |  |  |  |  |  |
| 2002 | 66  | 72  | 53  | 60  | 68  | 68  | 78  | 74  | 67  | 64  | 59  | 66  | 287    | 509       | 796    |  |  |  |  |  |  |  |  |  |
| 2003 | 67  | 65  | 66  | 59  | 64  | 73  | 78  | 74  | 67  | 62  | 62  | 73  | 292    | 518       | 809    |  |  |  |  |  |  |  |  |  |
| 2004 | 67  | 65  | 62  | 59  | 63  | 72  | 77  | 75  | 68  | 63  | 62  | 65  | 293    | 506       | 799    |  |  |  |  |  |  |  |  |  |
| 2005 | 70  | 62  | 63  | 61  | 63  | 72  | 78  | 74  | 68  | 65  | 60  | 66  | 292    | 510       | 802    |  |  |  |  |  |  |  |  |  |
| 2006 | 69  | 61  | 62  | 60  | 64  | 72  |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |

**Table (5) (B)-60:** Commercial SPS use-per-customer forecast (Calendar month - MWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|
| 2001 | NA  | NA  | NA  | NA  | NA  | 521 | 551 | 526 | 499 | 493 | 444 | 440 | 2,097  | NA        | NA     |
| 2002 | 464 | 449 | 438 | 466 | 484 | 520 | 561 | 549 | 512 | 486 | 428 | 390 | 2,142  | 3,606     | 5,749  |
| 2003 | 487 | 441 | 447 | 442 | 472 | 534 | 555 | 537 | 489 | 474 | 438 | 470 | 2,115  | 3,670     | 5,786  |
| 2004 | 503 | 439 | 427 | 458 | 481 | 515 | 571 | 554 | 504 | 506 | 458 | 465 | 2,145  | 3,737     | 5,882  |
| 2005 | 485 | 435 | 435 | 446 | 459 | 525 | 527 | 528 | 493 | 465 | 439 | 438 | 2,073  | 3,603     | 5,676  |
| 2006 | 486 | 434 | 440 | 436 | 460 | 500 |     |     |     |     |     |     |        |           |        |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |

**Table (5) (B)-61:** Commercial LPS use-per-customer forecast (Calendar month - MWh)

| Year | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Summer | Not Summer | Annual |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------------|--------|
| 2001 | NA    | 3,682 | 3,355 | 4,019 | 3,772 | 4,367 | 4,503 | 4,478 | 4,560 | 3,813 | 3,969 | 3,684 | 17,908 | NA         | 44,202 |
| 2002 | 3,914 | 3,768 | 3,513 | 3,738 | 4,135 | 4,053 | 4,300 | 4,762 | 4,358 | 4,197 | 4,512 | 3,997 | 17,473 | 31,773     | 49,246 |
| 2003 | 4,222 | 3,535 | 3,833 | 3,661 | 3,748 | 3,872 | 4,123 | 3,892 | 4,058 | 3,794 | 4,069 | 3,578 | 15,944 | 30,440     | 46,385 |
| 2004 | 3,347 | 3,716 | 3,579 | 3,988 | 3,948 | 4,208 | 4,755 | 4,552 | 4,391 | 4,017 | 3,811 | 3,926 | 17,906 | 30,331     | 48,237 |
| 2005 | 4,011 | 3,852 | 3,561 | 3,660 | 3,710 | 4,318 | 4,616 | 4,929 | 4,680 | 4,281 | 4,129 | 4,063 | 18,543 | 31,268     | 49,811 |
| 2006 | 4,010 | 3,979 | 3,709 | 3,934 | 3,890 | 4,324 |       |       |       |       |       |       |        |            |        |
| 2007 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2008 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2009 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2010 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2011 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2012 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2013 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2014 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2015 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2016 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2017 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2018 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2019 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2020 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2021 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2022 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2023 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2024 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2025 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2026 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2027 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2028 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2029 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |
| 2030 |       |       |       |       |       |       |       |       |       |       |       |       |        |            |        |

**Table (5) (B)-62:** Industrial SGS use-per-customer forecast (Calendar month - MWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |  |  |  |  |  |  |  |  |  |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|--|--|--|--|--|--|--|--|--|
| 1995 | 0   | 22  | 22  | 20  | 20  | 22  | 24  | 24  | 25  | 21  | 20  | 21  | 95     | 146       | 241    |  |  |  |  |  |  |  |  |  |
| 1996 | 22  | 22  | 22  | 21  | 21  | 24  | 25  | 25  | 25  | 22  | 22  | 22  | 100    | 174       | 274    |  |  |  |  |  |  |  |  |  |
| 1997 | 22  | 22  | 22  | 21  | 21  | 24  | 26  | 25  | 25  | 23  | 23  | 23  | 100    | 178       | 278    |  |  |  |  |  |  |  |  |  |
| 1998 | 23  | 23  | 24  | 22  | 22  | 26  | 26  | 27  | 26  | 24  | 23  | 23  | 104    | 184       | 289    |  |  |  |  |  |  |  |  |  |
| 1999 | 25  | 24  | 24  | 26  | 30  | 31  | 27  | 29  | 27  | 24  | 28  | 23  | 113    | 205       | 318    |  |  |  |  |  |  |  |  |  |
| 2000 | 24  | 26  | 25  | 22  | 25  | 29  | 29  | 32  | 30  | 29  | 29  | 25  | 120    | 206       | 326    |  |  |  |  |  |  |  |  |  |
| 2001 | 30  | 25  | 28  | 26  | 27  | 29  | 30  | 32  | 26  | 27  | 25  | 25  | 119    | 212       | 331    |  |  |  |  |  |  |  |  |  |
| 2002 | 25  | 25  | 26  | 28  | 22  | 30  | 31  | 27  | 28  | 27  | 24  | 25  | 116    | 202       | 318    |  |  |  |  |  |  |  |  |  |
| 2003 | 25  | 26  | 26  | 24  | 25  | 26  | 28  | 29  | 27  | 26  | 26  | 25  | 111    | 202       | 313    |  |  |  |  |  |  |  |  |  |
| 2004 | 24  | 26  | 25  | 24  | 26  | 28  | 29  | 29  | 27  | 27  | 26  | 26  | 114    | 205       | 319    |  |  |  |  |  |  |  |  |  |
| 2005 | 27  | 26  | 26  | 26  | 25  | 29  | 30  | 30  | 28  | 28  | 27  | 27  | 117    | 211       | 327    |  |  |  |  |  |  |  |  |  |
| 2006 | 27  | 25  | 25  | 25  | 26  | 28  |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |

**Table (5) (B)-63:** Industrial LGS use-per-customer forecast (Calendar month - MWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | Non Summer | Annual |  |  |  |  |  |  |  |  |  |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|------------|--------|--|--|--|--|--|--|--|--|--|
| 1995 | NA  | 91  | 89  | 84  | 84  | 94  | 96  | 96  | 99  | 84  | 81  | 82  | 385    | NA         | NA     |  |  |  |  |  |  |  |  |  |
| 1996 | 85  | 88  | 88  | 84  | 81  | 94  | 95  | 95  | 95  | 83  | 82  | 83  | 378    | 673        | 1,051  |  |  |  |  |  |  |  |  |  |
| 1997 | 85  | 85  | 83  | 80  | 79  | 92  | 95  | 92  | 90  | 84  | 83  | 82  | 369    | 661        | 1,030  |  |  |  |  |  |  |  |  |  |
| 1998 | 84  | 82  | 87  | 83  | 79  | 95  | 92  | 93  | 89  | 84  | 81  | 109 | 369    | 688        | 1,057  |  |  |  |  |  |  |  |  |  |
| 1999 | 96  | 87  | 91  | 96  | 110 | 112 | 99  | 105 | 97  | 87  | 102 | 82  | 412    | 753        | 1,165  |  |  |  |  |  |  |  |  |  |
| 2000 | 87  | 94  | 88  | 74  | 84  | 94  | 96  | 106 | 96  | 94  | 95  | 83  | 393    | 698        | 1,090  |  |  |  |  |  |  |  |  |  |
| 2001 | 94  | 83  | 93  | 87  | 91  | 98  | 101 | 108 | 89  | 90  | 86  | 87  | 396    | 711        | 1,107  |  |  |  |  |  |  |  |  |  |
| 2002 | 85  | 86  | 90  | 95  | 76  | 101 | 106 | 92  | 95  | 91  | 83  | 84  | 395    | 690        | 1,085  |  |  |  |  |  |  |  |  |  |
| 2003 | 84  | 85  | 87  | 82  | 84  | 89  | 94  | 97  | 92  | 87  | 86  | 85  | 372    | 680        | 1,052  |  |  |  |  |  |  |  |  |  |
| 2004 | 81  | 85  | 82  | 80  | 86  | 93  | 95  | 96  | 90  | 89  | 85  | 86  | 375    | 675        | 1,050  |  |  |  |  |  |  |  |  |  |
| 2005 | 88  | 85  | 85  | 87  | 85  | 94  | 98  | 97  | 92  | 92  | 87  | 86  | 382    | 694        | 1,075  |  |  |  |  |  |  |  |  |  |
| 2006 | 88  | 82  | 82  | 81  | 84  | 89  |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |        |  |  |  |  |  |  |  |  |  |

**Table (5) (B)-64:** Industrial SPS use-per-customer forecast (Calendar month - MWh)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer | Annual |  |  |  |  |  |  |  |  |  |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|--------|--|--|--|--|--|--|--|--|--|
| 1995 | NA  | 728 | 724 | 673 | 683 | 733 | 776 | 767 | 767 | 719 | 706 | 704 | 3,043  | NA        | NA     |  |  |  |  |  |  |  |  |  |
| 1996 | 754 | 749 | 761 | 728 | 709 | 757 | 750 | 725 | 702 | 706 | 706 | 711 | 2,935  | 5,825     | 8,760  |  |  |  |  |  |  |  |  |  |
| 1997 | 751 | 733 | 730 | 717 | 719 | 789 | 793 | 776 | 741 | 709 | 707 | 706 | 3,100  | 5,772     | 8,871  |  |  |  |  |  |  |  |  |  |
| 1998 | 700 | 670 | 732 | 662 | 647 | 738 | 720 | 761 | 711 | 698 | 685 | 851 | 2,930  | 5,646     | 8,576  |  |  |  |  |  |  |  |  |  |
| 1999 | 774 | 652 | 840 | 825 | 601 | 830 | 717 | 755 | 712 | 834 | 839 | 761 | 3,014  | 6,127     | 9,141  |  |  |  |  |  |  |  |  |  |
| 2000 | 705 | 727 | 676 | 802 | 631 | 753 | 730 | 811 | 720 | 744 | 753 | 739 | 3,013  | 5,778     | 8,792  |  |  |  |  |  |  |  |  |  |
| 2001 | 705 | 775 | 852 | 709 | 735 | 743 | 785 | 771 | 729 | 727 | 667 | 677 | 3,030  | 5,845     | 8,875  |  |  |  |  |  |  |  |  |  |
| 2002 | 626 | 653 | 695 | 525 | 639 | 697 | 796 | 705 | 690 | 657 | 636 | 661 | 2,889  | 5,091     | 7,980  |  |  |  |  |  |  |  |  |  |
| 2003 | 622 | 646 | 606 | 524 | 640 | 631 | 676 | 663 | 666 | 638 | 587 | 605 | 2,635  | 4,868     | 7,504  |  |  |  |  |  |  |  |  |  |
| 2004 | 609 | 635 | 607 | 632 | 653 | 680 | 711 | 713 | 617 | 687 | 631 | 651 | 2,722  | 5,106     | 7,828  |  |  |  |  |  |  |  |  |  |
| 2005 | 666 | 614 | 610 | 619 | 617 | 660 | 674 | 654 | 662 | 637 | 625 | 642 | 2,650  | 5,031     | 7,681  |  |  |  |  |  |  |  |  |  |
| 2006 | 647 | 605 | 587 | 597 | 604 | 652 |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |        |  |  |  |  |  |  |  |  |  |



**Table (5) (B)-65:** Industrial LPS use-per-customer forecast (Calendar month - MWh)

| Year | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug    | Sep   | Oct   | Nov   | Dec   | Summer | NonSummer | Annual  |
|------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-----------|---------|
| 1995 | 0     | 5,064 | 5,155 | 5,142 | 5,413 | 6,417 | 6,415 | 6,310  | 5,381 | 5,591 | 5,317 | 5,109 | 24,522 | 36,790    | 61,312  |
| 1996 | 5,843 | 5,139 | 5,367 | 5,807 | 5,919 | 5,745 | 6,427 | 6,118  | 5,875 | 5,530 | 5,473 | 5,399 | 24,165 | 44,475    | 68,640  |
| 1997 | 5,633 | 5,330 | 5,261 | 5,387 | 5,399 | 6,220 | 6,278 | 6,026  | 6,253 | 5,850 | 5,660 | 6,052 | 24,777 | 44,573    | 69,350  |
| 1998 | 5,743 | 5,613 | 5,922 | 5,842 | 5,596 | 6,477 | 5,753 | 5,650  | 5,975 | 5,591 | 6,058 | 7,783 | 23,855 | 47,948    | 71,803  |
| 1999 | 8,279 | 7,783 | 7,197 | 6,445 | 7,018 | 9,523 | 8,069 | 6,571  | 6,327 | 5,243 | 6,532 | 6,821 | 30,490 | 55,318    | 85,808  |
| 2000 | 5,469 | 6,342 | 6,034 | 4,717 | 5,016 | 6,125 | 8,521 | 11,167 | 9,585 | 8,831 | 8,930 | 9,292 | 35,398 | 54,631    | 90,030  |
| 2001 | 7,736 | 8,373 | 8,841 | 8,509 | 8,895 | 9,602 | 8,965 | 9,798  | 9,153 | 8,476 | 9,427 | 9,551 | 37,518 | 69,609    | 107,128 |
| 2002 | 6,135 | 6,120 | 5,842 | 6,679 | 6,814 | 7,093 | 6,614 | 7,923  | 6,910 | 7,515 | 6,689 | 5,940 | 28,540 | 51,733    | 80,273  |
| 2003 | 6,466 | 6,514 | 5,850 | 6,556 | 6,667 | 7,719 | 7,052 | 7,334  | 7,004 | 6,248 | 7,160 | 6,210 | 29,110 | 51,673    | 80,782  |
| 2004 | 5,946 | 6,447 | 6,029 | 6,390 | 7,033 | 6,801 | 7,975 | 7,213  | 7,446 | 7,041 | 6,596 | 6,719 | 29,535 | 52,201    | 81,736  |
| 2005 | 6,431 | 6,287 | 5,969 | 6,637 | 6,547 | 7,095 | 7,272 | 6,544  | 7,490 | 6,789 | 6,828 | 6,342 | 28,401 | 51,831    | 80,232  |
| 2006 | 6,408 | 6,440 | 5,723 | 6,264 | 6,338 | 7,514 |       |        |       |       |       |       |        |           |         |
| 2007 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2008 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2009 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2010 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2011 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2012 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2013 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2014 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2015 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2016 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2017 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2018 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2019 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2020 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2021 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2022 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2023 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2024 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2025 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2026 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2027 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2028 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2029 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |
| 2030 |       |       |       |       |       |       |       |        |       |       |       |       |        |           |         |

**Table (5) (B)-66:** DtD use-per-customer forecast (Calendar month - MWh)

| Year | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Summer | NonSummer | Annual |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-----------|--------|
| 1995 | 0.73 | 0.64 | 0.64 | 0.55 | 0.51 | 0.47 | 0.51 | 0.55 | 0.59 | 0.68 | 0.71 | 0.77 | 2.12   | 5.24      | 7.36   |
| 1996 | 0.76 | 0.65 | 0.64 | 0.56 | 0.52 | 0.48 | 0.51 | 0.55 | 0.60 | 0.69 | 0.72 | 0.79 | 2.14   | 5.32      | 7.46   |
| 1997 | 0.78 | 0.66 | 0.66 | 0.57 | 0.53 | 0.49 | 0.52 | 0.57 | 0.62 | 0.70 | 0.74 | 0.80 | 2.19   | 5.45      | 7.65   |
| 1998 | 0.79 | 0.68 | 0.67 | 0.59 | 0.54 | 0.50 | 0.53 | 0.58 | 0.63 | 0.71 | 0.18 | 0.19 | 2.24   | 4.35      | 6.59   |
| 1999 | 0.19 | 0.16 | 0.16 | 0.14 | 0.13 | 0.12 | 0.12 | 0.14 | 0.15 | 0.17 | 0.18 | 0.19 | 0.52   | 1.30      | 1.82   |
| 2000 | 0.19 | 0.16 | 0.16 | 0.14 | 0.13 | 0.12 | 0.12 | 0.14 | 0.15 | 0.17 | 0.18 | 0.19 | 0.53   | 1.31      | 1.83   |
| 2001 | 0.18 | 0.15 | 0.16 | 0.14 | 0.13 | 0.12 | 0.13 | 0.14 | 0.15 | 0.17 | 0.18 | 0.19 | 0.53   | 1.30      | 1.83   |
| 2002 | 0.82 | 0.74 | 0.74 | 0.64 | 0.53 | 0.51 | 0.51 | 0.51 | 0.57 | 0.62 | 0.68 | 0.82 | 2.10   | 5.58      | 7.67   |
| 2003 | 0.94 | 0.81 | 0.74 | 0.73 | 0.65 | 0.59 | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 | 0.20 | 0.99   | 4.41      | 5.40   |
| 2004 | 0.21 | 0.17 | 0.16 | 0.15 | 0.14 | 0.13 | 0.13 | 0.13 | 0.14 | 0.16 | 0.17 | 0.20 | 0.52   | 1.36      | 1.88   |
| 2005 | 0.21 | 0.18 | 0.17 | 0.15 | 0.13 | 0.13 | 0.12 | 0.13 | 0.14 | 0.16 | 0.17 | 0.20 | 0.52   | 1.36      | 1.88   |
| 2006 | 0.21 | 0.18 | 0.16 | 0.14 | 0.13 | 0.13 |      |      |      |      |      |      |        |           |        |
| 2007 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2008 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2009 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2010 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2011 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2012 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2013 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2014 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2015 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2016 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2017 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2018 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2019 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2020 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2021 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2022 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2024 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2025 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2026 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2027 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2028 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2029 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |
| 2030 |      |      |      |      |      |      |      |      |      |      |      |      |        |           |        |

**Table (5) (B)-67:** Wholesale use-per-customer forecast (Calendar month - MWh)

| Year | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    | Oct   | Nov   | Dec   | Summer | NonSummer | Annual  |  |  |  |  |  |  |  |  |  |
|------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|-------|--------|-----------|---------|--|--|--|--|--|--|--|--|--|
| 1999 | NA    | 6,732 | 6,786 | 6,352 | 6,824 | 8,414 | 10,288 | 9,706  | 7,474  | 6,684 | 6,849 | 7,842 | 35,882 | NA        | NA      |  |  |  |  |  |  |  |  |  |
| 2000 | 8,070 | 7,055 | 7,157 | 6,507 | 7,376 | 8,844 | 10,302 | 10,189 | 8,155  | 6,971 | 7,099 | 8,014 | 37,491 | 58,248    | 95,739  |  |  |  |  |  |  |  |  |  |
| 2001 | 8,236 | 7,173 | 7,191 | 6,262 | 6,992 | 8,445 | 9,942  | 9,633  | 7,858  | 6,878 | 6,867 | 7,687 | 35,878 | 57,286    | 93,164  |  |  |  |  |  |  |  |  |  |
| 2002 | 8,198 | 7,046 | 7,284 | 6,649 | 7,249 | 8,266 | 9,711  | 9,827  | 7,860  | 7,078 | 7,127 | 8,115 | 35,665 | 58,745    | 94,410  |  |  |  |  |  |  |  |  |  |
| 2003 | 8,603 | 7,238 | 7,625 | 6,824 | 7,492 | 8,783 | 10,741 | 10,016 | 8,006  | 7,330 | 7,357 | 8,429 | 37,546 | 60,898    | 98,444  |  |  |  |  |  |  |  |  |  |
| 2004 | 9,072 | 7,999 | 7,745 | 6,885 | 7,363 | 8,996 | 9,832  | 9,552  | 7,975  | 7,216 | 7,586 | 8,823 | 36,355 | 62,689    | 99,044  |  |  |  |  |  |  |  |  |  |
| 2005 | 9,270 | 7,840 | 8,024 | 7,218 | 7,529 | 9,022 | 9,713  | 10,251 | 10,398 | 9,624 | 7,558 | 7,592 | 39,385 | 64,655    | 104,040 |  |  |  |  |  |  |  |  |  |
| 2006 | 9,106 | 7,954 | 8,057 | 7,215 | 7,802 | 9,222 |        |        |        |       |       |       |        |           |         |  |  |  |  |  |  |  |  |  |
| 2007 |       |       |       |       |       |       |        |        |        |       |       |       |        |           |         |  |  |  |  |  |  |  |  |  |
| 2008 |       |       |       |       |       |       |        |        |        |       |       |       |        |           |         |  |  |  |  |  |  |  |  |  |

**Table (5) (B)-68:** SLPA use-per-customer forecast (Calendar month - MWh)

| Year | Jan   | Feb  | Mar  | Apr  | May  | Jun  | Jul   | Aug  | Sep  | Oct   | Nov  | Dec  | Summer | NonSummer | Annual |
|------|-------|------|------|------|------|------|-------|------|------|-------|------|------|--------|-----------|--------|
| 1995 | 7.11  | 6.88 | 6.22 | 5.85 | 5.71 | 5.63 | 5.84  | 6.39 | 6.83 | 7.13  | 7.87 | 8.02 | 24.69  | 54.78     | 79.46  |
| 1996 | 7.10  | 6.88 | 6.37 | 5.83 | 5.65 | 5.64 | 5.89  | 6.44 | 6.86 | 7.37  | 8.06 | 8.37 | 24.83  | 55.64     | 80.47  |
| 1997 | 7.26  | 7.16 | 6.47 | 5.87 | 5.78 | 5.77 | 5.99  | 6.53 | 7.01 | 7.76  | 8.26 | 8.61 | 25.29  | 57.18     | 82.47  |
| 1998 | 7.46  | 7.44 | 6.65 | 6.11 | 5.97 | 6.28 | 6.20  | 6.38 | 8.03 | 6.68  | 3.98 | 5.44 | 26.90  | 49.74     | 76.64  |
| 1999 | 5.44  | 8.93 | 4.39 | 4.79 | 3.93 | 3.78 | 11.11 | 3.92 | 4.41 | 4.65  | 5.18 | 5.23 | 23.22  | 42.55     | 65.76  |
| 2000 | 4.85  | 6.46 | 4.16 | 3.84 | 3.82 | 3.70 | 3.78  | 6.44 | 4.33 | 4.45  | 5.18 | 5.24 | 18.25  | 38.01     | 56.26  |
| 2001 | 4.68  | 4.54 | 4.16 | 3.92 | 3.87 | 3.74 | 3.89  | 3.96 | 4.35 | 4.67  | 5.07 | 5.34 | 15.94  | 36.25     | 52.18  |
| 2002 | 11.51 | 3.19 | 6.86 | 5.95 | 6.20 | 5.83 | 5.94  | 6.80 | 7.37 | 8.17  | 8.81 | 9.35 | 25.94  | 60.04     | 85.98  |
| 2003 | 8.70  | 7.93 | 7.28 | 6.54 | 6.22 | 5.73 | 6.00  | 6.59 | 7.28 | 8.03  | 9.00 | 9.44 | 25.60  | 63.13     | 88.73  |
| 2004 | 8.42  | 7.53 | 7.25 | 6.66 | 6.04 | 5.72 | 5.96  | 6.62 | 7.16 | 8.18  | 8.84 | 9.38 | 25.46  | 62.29     | 87.74  |
| 2005 | 8.56  | 7.52 | 7.35 | 6.36 | 6.00 | 5.64 | 5.88  | 6.53 | 7.03 | 11.85 | 8.64 | 9.33 | 25.08  | 65.60     | 90.68  |
| 2006 | 4.48  | 7.49 | 7.09 | 6.28 | 5.94 | 5.56 |       |      |      |       |      |      |        |           |        |
| 2007 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2008 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2009 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2010 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2011 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2012 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2013 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2014 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2015 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2016 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2017 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2018 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2019 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2020 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2021 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2022 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2023 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2024 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2025 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2026 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2027 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2028 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2029 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |
| 2030 |       |      |      |      |      |      |       |      |      |       |      |      |        |           |        |

**Table (5) (B)-69:** Residential heating-use coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-70:** Residential cooling-use coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | Non Summer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|------------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |

**Table (5) (B)-71:** Residential other-use coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NotSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-72:** Residential coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NotSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-73:** Commercial SGS coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | Non Summer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|------------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |

**Table (5) (B)-74:** Commercial LGS coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-75:** Commercial SPS coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-76:** Commercial LPS coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |



**Table (5) (B)-77:** Industrial SGS coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-78:** Industrial LGS coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-79:** Industrial SPS coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-80:** Industrial LPS coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-81:** Noranda coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-82:** Wholesale coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

Wholesale contracts expire at the end of 2008.

**Table (5) (B)-83:** Lighting coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | Non Summer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|------------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |

**Table (5) (B)-84:** Residential heating-use use-per-customer coincident peak forecast  
(MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | Non Summer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|------------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |            |

**Table (5) (B)-85:** Residential cooling-use use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-86:** Residential other-use use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-87:** Residential use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-88:** Commercial SGS use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-89:** Commercial LGS use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-90:** Commercial SPS use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |



**Table (5) (B)-91:** Commercial LPS use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-92:** Industrial SGS use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-93:** Industrial LGS use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-94:** Industrial SPS use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-95:** Industrial LPS use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-96:** Wholesale use-per-customer coincident peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (B)-97: Lighting use-per-customer coincident peak forecast (MW)**

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NonSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

#### 4 CSR 22.030 (5) (C)

**(C) Net System Load Forecast.** The utility shall produce a forecast of net system load profiles for each year of the planning horizon. The net system load forecast shall be consistent with the utility's forecasts of monthly energy and demands at time of summer and winter system peaks for the major rate classes.

AmerenUE produced a forecast of net system load profiles for each year of the planning horizon. Below are the monthly system peak forecast and hourly loads for the summer and winter peak days in the base, fifth, tenth and twentieth years of the forecast.

**Table (5) (C)-1:** Monthly system peak forecast (MW)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Summer | NotSummer |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| 2006 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2007 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2008 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2009 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2010 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2011 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2012 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2013 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2014 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2015 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2016 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2017 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2018 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2019 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2020 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2021 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2022 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2023 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2024 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2025 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2026 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2027 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2028 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2029 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |
| 2030 |     |     |     |     |     |     |     |     |     |     |     |     |        |           |

**Table (5) (C)-2:** 2007 winter peak day profiles (MW)

| Jan-07 | ResHeat | ResCool | ResOther | ComLGS | ComLPS | ComSGS | ComSPS | IndLGS | IndLPS | IndSGS | IndSPS | Wtrk | Lighting | Nonres | System |
|--------|---------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|----------|--------|--------|
| Hour1  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour2  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour3  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour4  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour5  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour6  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour7  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour8  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour9  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour10 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour11 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour12 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour13 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour14 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour15 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour16 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour17 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour18 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour19 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour20 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour21 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour22 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour23 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour24 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |

**Table (5) (C)-3: 2007 summer peak day profiles (MW)**

| Jr H07 | ResHeat | ResCool | ResOther | ComLGS | ComLPS | ComSGS | ComSPS | IndLGS | IndLPS | IndSGS | IndSPS | Wtrk | Lighting | Nonresd | System |
|--------|---------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|----------|---------|--------|
| H01r1  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r2  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r3  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r4  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r5  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r6  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r7  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r8  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r9  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r10 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r11 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r12 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r13 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r14 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r15 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r16 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r17 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r18 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r19 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r20 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r21 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r22 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r23 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r24 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |

**Table (5) (C)-4: 2011 winter peak day profiles (MW)**

| Jan-11 | ResHeat | ResCool | ResOther | ComLGS | ComLPS | ComSGS | ComSPS | IndLGS | IndLPS | IndSGS | IndSPS | Wtrk | Lighting | Nonresd | System |
|--------|---------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|----------|---------|--------|
| H01r1  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r2  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r3  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r4  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r5  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r6  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r7  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r8  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r9  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r10 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r11 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r12 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r13 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r14 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r15 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r16 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r17 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r18 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r19 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r20 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r21 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r22 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r23 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r24 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |

**Table (5) (C)-5:** 2011 summer peak day profiles (MW)

| Jt H-1 | ResHeat | ResCool | ResOther | ComLGS | ComLPS | ComSGS | ComSPS | IndLGS | IndLPS | IndSGS | IndSPS | Wtrk | Lighting | Nonresd | System |
|--------|---------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|----------|---------|--------|
| H01r1  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r2  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r3  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r4  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r5  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r6  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r7  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r8  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r9  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r10 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r11 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r12 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r13 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r14 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r15 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r16 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r17 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r18 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r19 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r20 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r21 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r22 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r23 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r24 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |

**Table (5) (C)-6:** 2016 winter peak day profiles (MW)

| Jat-16 | ResHeat | ResCool | ResOther | ComLGS | ComLPS | ComSGS | ComSPS | IndLGS | IndLPS | IndSGS | IndSPS | Wtrk | Lighting | Nonresd | System |
|--------|---------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|----------|---------|--------|
| H01r1  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r2  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r3  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r4  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r5  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r6  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r7  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r8  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r9  |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r10 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r11 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r12 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r13 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r14 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r15 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r16 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r17 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r18 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r19 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r20 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r21 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r22 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r23 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |
| H01r24 |         |         |          |        |        |        |        |        |        |        |        |      |          |         |        |



**Table (5) (C)-7:** 2016 summer peak day profiles (MW)

| J1116  | ResHeat | ResCool | ResOther | ComLGS | ComLPS | ComSGS | ComSPS | IndLGS | IndLPS | IndSGS | IndSPS | WVizk | Lighting | NoLoad | System |
|--------|---------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----------|--------|--------|
| Hour1  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour2  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour3  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour4  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour5  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour6  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour7  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour8  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour9  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour10 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour11 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour12 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour13 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour14 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour15 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour16 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour17 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour18 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour19 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour20 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour21 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour22 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour23 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour24 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |

**Table (5) (C)-8:** 2026 winter peak day profiles (MW)

| J1126  | ResHeat | ResCool | ResOther | ComLGS | ComLPS | ComSGS | ComSPS | IndLGS | IndLPS | IndSGS | IndSPS | WVizk | Lighting | NoLoad | System |
|--------|---------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----------|--------|--------|
| Hour1  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour2  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour3  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour4  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour5  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour6  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour7  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour8  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour9  |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour10 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour11 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour12 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour13 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour14 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour15 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour16 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour17 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour18 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour19 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour20 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour21 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour22 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour23 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |
| Hour24 |         |         |          |        |        |        |        |        |        |        |        |       |          |        |        |

**Table (5) (C)-9:** 2026 summer peak day profiles (MW)

| JH26   | ResHeat | ResCool | ResOther | ComLGS | ComLPS | ComSGS | ComSPS | IndLGS | IndLPS | IndSGS | IndSPS | Wtrk | Lighting | Nonres | System |
|--------|---------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|------|----------|--------|--------|
| Hour1  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour2  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour3  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour4  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour5  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour6  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour7  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour8  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour9  |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour10 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour11 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour12 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour13 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour14 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour15 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour16 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour17 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour18 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour19 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour20 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour21 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour22 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour23 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |
| Hour24 |         |         |          |        |        |        |        |        |        |        |        |      |          |        |        |

