Island Regulatory and Appeals Commission 134 Kent St. National Bank Tower Charlottetown, PE, C1A 1N2 Grant Thornton LLP Suite 300 15 International Place St. John's, NL A1A 0L4

T +1 709 778 8800 F +1 709 722 7892

December 18, 2019

Dear Sirs,

Re: Island Regulatory and Appeals Commission
Weather Normalization Reserve and Adjustments

As requested by the Island Regulatory and Appeals Commission ("IRAC" or the "Commission") we have completed our review of Maritime Electric Company Limited's ("the Company's" or "MECL") Weather Normalization Reserve and Adjustments ("WNR").

The procedures undertaken in the course of our financial analysis do not constitute an audit of the Company's financial information and consequently, we do not express an opinion on the financial information.

#### Background

This letter outlines the procedures undertaken and findings of Grant Thornton's review, and conclusions to assist the Commission in approving the updated 2019 WNR components. There are two attachments at the end of this letter. Attachment A is the original WNR calculations and adjustments (known as Appendix 5) provided by MECL to Grant Thornton. Attachment B is the reconciled WNR calculations and adjustments (known as Appendix 5) provided by MECL in response to the errors identified by Grant Thornton as outlined in this letter and for which they seek approval.

The Weather Normalization Reserve and Adjustments was introduced in the General Rate Application filed October 28th, 2015. The purpose of the WNR, as outlined in that application, was "to stabilize electricity rates to customers by removing the volatility in sales and energy supply costs caused by temperature changes relative to historical averages."

The approved definition, outlined in the General Rate Application filed October 28th, 2015, is stated as follows:

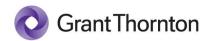
Contributions to Weather Normalization Reserve = MWh Variation From Average X Marginal Net Revenue

Where,

MWh Variation from Average = (Actual HDD Value – Average HDD Value) X
 (MWh per HDD Coefficient)

And where,

 Marginal Net Revenue = Forecast Unit Revenue per MWh – Forecast Unit Energy Cost per MWh



The WNR calculation uses both historical and forecasted data and requires IRAC approval each year to ensure transparency and that the updated components of the WNR definition are agreed upon by the Commission. MECL is also required to calculate monthly adjustments to the WNR and provide those adjustments to the Commission.

The Commission approved the WNR on an interim basis until February 28, 2019. The Commission subsequently extended the interim period of the WNR until February 28<sup>th</sup>, 2022 as outlined in UE19-08, Order number 17 under the Weather Normalization Mechanism subcategory, page 53.

#### **Procedures**

Our procedures with respect to verifying the updated components of the Weather Normalization Reserve and the annual adjustments were directed towards the verification of the data incorporated in the calculations and the methodology used by the Company. Specifically, the procedures which we performed included the following:

- Reviewed WNR schedules and components within the General Rate Application filed October 28th, 2015, the Revisions to the components of the Weather Normalization Mechanism and Reserve filed on October 31st, 2016, the Revisions to the components of the Weather Normalization Mechanism and Reserve filed on October 31st, 2017, Appendix 5 of the General Rate Application filed November 30th, 2018 ("2018 GRA") which contained the WNR, Exhibit M-25 GRA Revised Rates and Schedules filed July 31, 2019, and a revised Appendix 5 with WNR schedules updated for actuals to October 31, 2019 provided by MECL in an email dated November 27, 2019 (Attachment A);
- Checked the clerical accuracy of the components in the WNR schedules;
- Reviewed the methodology used in the components of the WNR definition to ensure it is in accordance with Commission's orders and established policy and procedures;
- Reviewed the data within each WNR component to ensure it was cross-referenced between 2015-2019 Weather Normalization schedules to ensure consistency and accuracy;
- Reviewed data relating to Heating Degree Days (HDD) to the Environment Canada website provided in MECL's excel document;
- Reviewed the components within the calculation of the MWh per HDD Coefficient for accuracy;
- Checked that the linear regression formula used to calculate 2019 Coefficient was consistent with the previous approved Coefficient calculations; and
- Compared actuals contained in Attachment A to MECL's Monthly Report to IRAC as at October 31, 2019 to ensure accuracy in data reporting.

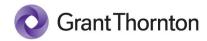
#### **Findings and Comments**

As a result of the above outlined procedures completed, we have the following comments:

#### Calculation of 10 Year Average HDD (Appendix 5, Schedule 1)

Certain of the data provided by Environment Canada is not complete, meaning not all historical HDD data could be verified by Grant Thornton. For items available, we compared the components of the calculation of the 10 year average HDD to actuals provided by Environment Canada and we found the following errors:

- December 2013 HDD value as per MECL is 750 but Environment Canada states 744;
- February 2016 HDD value as per MECL is 608 but Environment Canada states 626; and



 October 2018 HDD value as per MECL was recorded as both 338.2 and 341 in separate schedules. Environment Canada states 338.7 for October 2018.

The impact of these errors was reconciled and schedules recalculated by MECL to reflect the most accurate data. The Company's revised "Appendix 5 – WNR Calculations and Adjustments" filing can be found in Attachment B of this letter.

MECL noted that Environment Canada commonly has HDD data missing or estimated. MECL uses the best dataset available at the time of calculation but may not revise the updated HDD data published by Environment Canada in its subsequent WNR calculations. According to MECL, the Company may compensate missing data from the Charlottetown Weather Station and retrieve it from the Harrington Station located near Brackley, PEI.

We recalculated MECL revisions as a result of the errors note above and confirmed they have been incorporated within Attachment B of this letter.

#### MWh per HDD Coefficient (Appendix 5, Schedule 2)

We recalculated the components of the MWh per HDD Coefficient (the "Coefficient") calculation including days in month, average HDD per day, average MWh per day and HDD per day. We also verified the actual HDD against Environment Canada where possible, and agreed the 'fewer hours of daylight' to source documentation. For reported sales (MWh) included in the calculation we ensured it agreed to monthly sales provided by MECL as indicated in Attachment B of this letter. We did not note any exceptions.

We also recalculated the 2019 Coefficient of 50.19 MWh and ensured that the linear regression formula used to calculate 2019 Coefficient was consistent with the previous approved Coefficient calculations.

Based on our procedures on the MWh per HDD Coefficient, we did not note any exceptions.

#### Calculation of Forecast Marginal Net Revenue Rate (Appendix 5, Schedule 3)

#### Forecast Unit Revenue per MWh

This component of the calculation normally includes forecast data for the coming year. Due to the delayed approval of the WNR variables for 2019, actuals were included within this calculation up until October 31, 2019. We compared the actuals included in the Forecast Unit Revenue calculation to MECL's Monthly Report to IRAC as at October 31, 2019 and requested a reconcilation from MECL for differences noted. MECL stated that the actual sales revenue for Residential, General Service, and Small Industrial provided to the Commission in their monthly updates include service charges and, with the exception of Small Industrial, seasonal sales revenue. Both service charges and seasonal revenue are not included in WNR calculations, as noted in the General Rate Application filed October 31, 2015. Further, when MECL was conducting their review and reconcilation to IRAC monthly reporting, the Company noted that there were errors with their actual sales revenue reported. MECL incorrectly included the ECAM collected within their sales revenue calculations for the WNR and did not include monthly billing adjustments to sales revenue calculations for the WNR. MECL's revised actual monthly sales revenue calculations were verified by Grant Thornton and have been incorporated within Attachment B of this letter.



As part of our review of the revenue forecast, we noted the \$/kWh for the small industrial customer for forecast November and December was approximately \$0.126/kWh and \$0.129/kWh, respectively, which was much lower in comparison to actual average of approximately \$0.141/kWh for previous 10 months. MECL response to Grant Thornton on this discrepancy was as follows:

"In the latter part of 2017, early 2018 we had a number of small industrial customers move from the small industrial rate to large industrial rate and our forecast for small industrial revenue for subsequent years was adjusted to reflect this change. For small industrial demand, the 2019 forecast was approximately 295MW. Actual demand year to date is approximately 268MW which effectively reduced the demand forecast for each of November and December to approximately 13.5 MW versus a YTD average of 29 MW. Therefore we are revising the forecast demand for the year to 323MW for small industrials. This increases the revenue forecast for small industrials from our previous submission by the following amounts:

November 2019 = (28100 KW – 13619 KW) X \$7.46 = \$108,028 December 2019 = (27031 KW – 13101 KW) X \$7.46 = \$103,918

This will bring the \$/kWh for small industrial more in line with the average experienced in the previous 10 months."

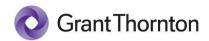
MECL's revised forecast monthly sales revenue for November and December for Small Island Industrial were verified as being incorporated within Attachment B of this letter.

Based on actual sales to October 31, 2019 and forecast sales for November and December 2019 in Attachment B, we recalculated the forecast unit revenue per MWh of \$143.70 and did not note any exceptions.

#### Forecast Unit Energy Cost per MWh

The Energy Cost Adjustment Mechanism ("ECAM") base rate used to calculate marginal net revenue is \$91.61 per MWh, which complies with the Commission's UE19-08 Order #1 under the subcategory of "Rates", page 52.

We recalculated the revised Marginal Net Revenue Rate of \$52.09 per MWh included in Attachment B and did not note any exceptions.



#### Monthly Change in Weather Normalization Reserve (Appendix 5, Schedule 4)

As a result of the errors noted above in this letter, the cumulative and certain monthly adjustments of the WNR since February 2016 were impacted. MECL recalculated the monthly adjustments found in Attachment B.

Table 1 below compares the annual cumulative year end balances as per the originally reported WNR monthly adjustments to the revised WNR monthly adjustments as a result of the errors noted in this letter:

Table 1: Year End Weather Normalization Reserve Balance, as at December 31st

|       | Year End Cumulative Balance                       | of WNR – Balance Owning (Recove                | erable)    |
|-------|---|--|------------|
|       | Original Appendix 5, Schedule 4<br>(Attachment A) | Revised Appendix 5, Schedule 4 (:Attachment B) | Difference |
| 2016  | \$(71,327)  | \$(25,459)                                     | \$45,868   |
| 2017  | \$(178,187)                                       | \$(131,034)                                    | \$47,153   |
| 2018  | \$290,983   | \$335,978                                      | \$44,995   |
| 2019* | \$837,659*  | \$854,977*                                     | \$17,318   |

<sup>\*</sup>As at October 31, 2019

#### Revised WNR 2019 components

Table 2 below outlines the updated components of the 2019 WNR as submitted to Grant Thornton by MECL on December 14, 2019 via email to correct the errors identified above as detailed in Attachment B:

Table 2: Updated 2019 Weather Normalization Reserve components proposed by MECL

| Weather Normalization Reserve Variables Pro | ovided by MECL |
|---|----------------|
| Average HDD Value                           | 4,365          |
| MWh per HDD Coefficient                     | 50.19          |
| Forecast Unit Revenue per MWh               | 143.70         |
| Forecast Unit Energy Cost per MWh           | 91.61          |



#### Conclusion

Based on the results of the above procedures and after MECL corrected the errors identified above, we did not note any further discrepancies and therefore conclude that the information provided in Table 2 above and Attachment B is in accordance with the approved definition of the Weather Normalization Reserve.

In order to minimize discrepancies on the accuracy of the WNR reporting, we recommend IRAC establish a policy with regard to missing HDD data published by Environment Canada. This policy would provide clarity over the WNR calculation when MECL uses estimated HDD data, as well as any updating to WNR adjustments between the time of reporting and when actual HDD is available in subsequent WNR adjustment filings.

I trust this is the information you requested. If you have any questions, please contact us.

Yours sincerely,

**Grant Thornton LLP** 

Chris Brake, CPA, CA

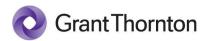
Chris Brake

Partner

Barry Griffiths, CPA, CA

Davy Juff

Senior Manager



## Attachment A – Original WNR

Appendix 5
Schedule 1
Calculation of 10-Year Average HDD

| Month | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014      | 2015      | 2016  | 2017  | 10 year<br>average<br>(2008 - 2017) |
|-------|-------|-------|-------|-------|-------|-------|-----------|-----------|-------|-------|-------------------------------------|
|       |       |       |       |       |       |       |           |           |       |       | , ,                                 |
| Jan   | 728   | 866   | 686   | 744   | 715   | 812   | 771       | 829       | 713   | 712   | 758                                 |
| Feb   | 686   | 664   | 608   | 697   | 700   | 672   | 717       | 858       | 608   | 657   | 687                                 |
| Mar   | 694   | 675   | 556   | 621   | 572   | 603   | 760       | 743       | 654   | 690   | 657                                 |
| Apr   | 418   | 420   | 367   | 420   | 379   | 441   | 453       | 537       | 475   | 416   | 433                                 |
| May   | 286   | 245   | 262   | 259   | 224   | 235   | 308       | 233       | 259   | 264   | 258                                 |
| Jun   | 95    | 102   | 114   | 150   | 119   | 107   | 120       | 163       | 121   | 94    | 119                                 |
| Jul   | 0     | 42    | 13    | 21    | 12    | 13    | 1         | 28        | 30    | 27    | 19                                  |
| Aug   | 20    | 30    | 21    | 14    | 5     | 17    | 28        | 3         | 23    | 29    | 19                                  |
| Sep   | 121   | 135   | 107   | 90    | 76    | 106   | 118       | 73        | 101   | 92    | 102                                 |
| Oct   | 300   | 345   | 290   | 249   | 240   | 291   | 228       | 315       | 255   | 203   | 272                                 |
| Nov   | 421   | 392   | 429   | 397   | 424   | 472   | 461       | 420       | 401   | 440   | 426                                 |
| Dec   | 620   | 643   | 515   | 569   | 589   | 750   | 582       | 545       | 665   | 695   | 617                                 |
|       | 4,389 | 4,559 | 3,968 | 4,231 | 4,055 | 4,519 | 4,547     | 4,747     | 4,305 | 4,319 | 4,364                               |
|       |       |       |       |       |       | S     | tandard [ | Deviation |       |       | 240                                 |

Appendix 5
Schedule 2
Calculation of MWh/HDD Coefficient

|      |       |                     | Calculation   | ON OT WIWN/HL   | D COCINCICI                  |                               |                           |                           |
|------|-------|---------------------|---------------|-----------------|------------------------------|-------------------------------|---------------------------|---------------------------|
| Year | Month | Days<br>in<br>month | Actual<br>HDD | HDD<br>per day  | Reported<br>sales<br>( MWh ) | Fewer<br>hours of<br>daylight | Average<br>HDD<br>per day | Average<br>MWh<br>per day |
|      |       |                     |               | pe. day         | ( )                          | uu,g                          | per uay                   | pe. uay                   |
| 2017 | Jul   | 31                  | 27            | 0.9             | 76,298                       |                               |                           |                           |
|      | Aug   | 31                  | 29            | 0.9             | 78,217                       |                               |                           |                           |
|      | Sep   | 30                  | 92            | 3.1             | 80,074                       |                               |                           |                           |
|      | Oct   | 31                  | 203           | 6.5             | 75,216                       | 2.52                          | 4.8                       | 2,50                      |
|      | Nov   | 30                  | 440           | 14.7            | 82,686                       | 4.07                          | 10.6                      | 2,66                      |
|      | Dec   | 31                  | 695           | 22.4            | 96,151                       | 5.21                          | 18.5                      | 3,20                      |
| 2018 | Jan   | 31                  | 764           | 24.7            | 111,163                      | 5.40                          | 23.5                      | 3,58                      |
|      | Feb   | 28                  | 621           | 22.2            | 106,524                      | 4.53                          | 23.4                      | 3,43                      |
|      | Mar   | 31                  | 602           | 19.4            | 89,909                       | 3.11                          | 20.8                      | 3,21                      |
|      | Apr   | 30                  | 445           | 14.8            | 92,948                       | 1.53                          | 17.1                      | 2,99                      |
|      | May   | 31                  | 280           | 9.0             | 78,410                       | 0.00                          | 11.9                      | 2,61                      |
|      | Jun   | 30                  | 168           | 5.6             | 77,199                       |                               |                           |                           |
|      |       |                     | Linear regr   | ession results: |                              |                               |                           |                           |
|      |       |                     | (Oct 2017 -   | May 2018)       |                              |                               |                           |                           |
|      |       |                     | HDD           | Daylight hrs    | b                            |                               |                           |                           |
|      |       |                     | 50.19         | 51.18           | 2039.06                      | coefficients                  |                           |                           |
|      |       |                     | 5.35          | 18.99           | 82.54                        | standard erro                 | r coefficient             | ts                        |
|      |       |                     | 0.97          | 81.40           | #N/A                         | R^2, standar                  | d error y                 |                           |
|      |       |                     | 81.77         | 5.00            | #N/A                         | F, degrees of                 | •                         |                           |
|      |       |                     | 1083543       | 33128.63        | #N/A                         | Regression SS                 |                           | S                         |
|      |       |                     | 9.38          | 2.70            | -                            | t values                      |                           |                           |

# Appendix 5 Schedule 3 Calculation of Forecast Marginal Net Revenue Rate for 2019

| Appendix 5<br>Schedule 1 | 20                     | 019 (Forecast) |    |            |
|--------------------------|------------------------|----------------|----|------------|
| Rate Class               | Revenue                | Sales          | Un | it Revenue |
|                          | (\$)                   | (MWh)          | (  | \$/MWh)    |
| Residential              | 86,264,450             | 617,950        |    | *          |
| General Service          | 61,074,065             | 387,506        |    | *          |
| Small Industrial         | 12,753,746             | 91,596         |    |            |
| Total                    | 160,092,260            | 1,097,052      | \$ | 145.93     |
| ECAM Base Rate           |                        |                | \$ | (91.61)    |
|                          | Marginal Net Revenue   | Rate           | \$ | 54.32      |
| * Excludes revenue an    | d kWh sales from seaso | nal customers  |    |            |

Appendix 5
Schedule 4
Monthly Change in Weather Normalization Reserve - January 1, 2016 to October 31, 2019

|                          |        | Heating Degree I<br>( below 18 deg | c)           | Space he    | ating load     |                |            | lization Reserve |
|--------------------------|--------|------------------------------------|--------------|-------------|----------------|----------------|------------|------------------|
|                          |        | 10 Year                            | Variation    |             | Variation      | Marginal       | Increase   | Balance Owing    |
|                          | Actual | Average                            | from 10 Year | Coefficient | from Average   | Net Revenue    | (Decrease) | (Recoverable)    |
| MM/YY                    | HDD    | Monthly HDD                        | Average HDD  | (MWh/HDD)   | ( MWh )        | (\$/MWh)       | (\$)       | (\$)             |
| January, 2016            | 713    | 753.9                              | (40.9)       | 41.73       | (1,707)        | 50.42          | (86,055)   | (86,055          |
| February, 2016           | 608    | 688.2                              | (80.2)       | 41.73       | (3,347)        | 50.42          | (168,743)  | (254,798         |
| March, 2016              | 654    | 637.2                              | 16.8         | 41.73       | 701            | 50.42          | 35,348     | (219,450         |
| April,2016               | 475    | 420.6                              | 54.4         | 41.73       | 2,270          | 50.42          | 114,459    | (104,991         |
| May, 2016                | 259    | 264.5                              | (5.5)        | 41.73       | (230)          | 50.42          | (11,572)   | (116,563         |
| June, 2016               | 121    | 110.0                              | 11.0         | 41.73       | 459            | 50.42          | 23,144     | (93,419          |
| July, 2016               | 30     | 16.5                               | 13.5         | 41.73       | 563            | 50.42          | 28,404     | (65,014          |
| August, 2016             | 23     | 24.2                               | (1.2)        | 41.73       | (50)           | 50.42          | (2,525)    | (67,539          |
| September, 2016          | 101    | 107.1                              | (6.1)        | 41.73       | (255)          | 50.42          | (12,835)   | (80,374          |
| October, 2016            | 255    | 272.8                              | (17.8)       | 41.73       | (743)          | 50.42          | (37,452)   | (117,825         |
| November, 2016           | 401    | 421.8                              | (20.8)       | 41.73       | (868)          | 50.42          | (43,764)   | (161,589         |
| December, 2016           | 665    | 622.1                              | 42.9         | 41.73       | 1,790          | 50.42          | 90,263     | (71,327          |
| January, 2017            | 712    | 751.4                              | (39.4)       | 43.21       | (1,702)        | 49.56          | (84,375)   | (155,701         |
| February, 2017           | 657    | 704.2                              | (47.2)       | 43.21       | (2,040)        | 49.56          | (101,078)  | (256,779         |
| March, 2017              | 690    | 646.1                              | 43.9         | 43.21       | 1,897          | 49.56          | 94,011     | (162,768         |
| April,2017               | 416    | 433.7                              | (17.7)       | 43.21       | (765)          | 49.56          | (37,904)   | (200,672         |
| May, 2017                | 264    | 256.4                              | 7.6          | 43.21       | 328            | 49.56          | 16,275     | (184,397         |
| June, 2017               | 94     | 114.6                              | (20.6)       | 43.21       | (890)          | 49.56          | (44,115)   | (228,512         |
| July, 2017               | 27     | 16.4                               | 10.6         | 43.21       | 458            | 49.56          | 22,700     | (205,812         |
| August, 2017             | 29     | 22.8                               | 6.2          | 43.21       | 268            | 49.56          | 13,277     | (192,535         |
| September, 2017          | 92     | 106.2                              | (14.2)       | 43.21       | (614)          | 49.56          | (30,409)   | (222,944         |
| October, 2017            | 203    | 279.6                              | (76.8)       | 43.21       | (3,319)        | 49.56          | (164,466)  | (387,410         |
| November, 2017           | 440    | 423.6                              | 16.1         | 43.21       | 696            | 49.56          | 34,478     | (352,932         |
| December, 2017           | 695    | 613.8                              | 81.6         | 43.21       | 3,526          | 49.56          | 174,745    | (178,187         |
| January, 2018            | 764    | 760.1                              | 4.3          | 46.66       | 201            | 51.38          | 10,309     | (167,878         |
| February, 2018           | 621    | 697.3                              | (76.5)       | 46.66       | (3,569)        | 51.38          | (183,400)  | (351,278         |
| March, 2018              | 602    | 652.1                              | (50.1)       | 46.66       | (2,338)        | 51.38          | (120,109)  | (471,388         |
| April,2018               | 445    | 440.1                              | 5.0          | 46.66       | 233            | 51.38          | 11,987     | (459,401         |
| May, 2018                | 280    | 261.9                              | 18.0         | 46.66       | 840            | 51.38          | 43,153     | (416,248         |
| June, 2018               | 168    | 121.2                              | 47.2         | 46.66       | 2,202          | 51.38          | 113,157    | (303,091         |
| July, 2018               | 14     | 18.9                               | (4.9)        | 46.66       | (229)          | 51.38          | (11,747)   | (314,838         |
| August, 2018             | 9      | 19.9                               | (10.5)       | 46.66       | (490)          | 51.38          | (25,173)   | (340,011         |
| September, 2018          | 125    | 104.7                              | 20.0         | 46.66       | 933            | 51.38          | 47,948     | (292,063         |
| October, 2018            | 338    | 276.1                              | 62.1         | 46.66       | 2,898          | 51.38          | 148,878    | (143,185         |
| November, 2018           | 520    | 426.3                              | 93.2         | 46.66       | 4,349          | 51.38          | 223,437    | 80,252           |
| December, 2018           | 709    | 621.1                              | 87.9         | 46.66       | 4,101          | 51.38          | 210,731    | 290,983          |
| January, 2019            | 709    | 757.6                              | (1.1)        | 50.19       | 4,101<br>(55)  | 54.32          | (2,999)    | 290,983          |
| February, 2019           | 737    | 686.7                              | 50.1         | 50.19       | 2,515          | 54.32          | 136,587    | 424,571          |
| March, 2019              | 638    | 656.8                              | (19.3)       | 50.19       | (969)          | 54.32          | (52,617)   | 371,954          |
| April,2019               | 449    | 432.6                              | 16.2         | 50.19       | 813            | 54.32          | 44,166     | 416,120          |
| May, 2019                | 352    | 257.5                              | 94.1         | 50.19       | 4,723          | 54.32          | 256,544    | 672,664          |
| June, 2019               | 106    | 118.5                              | (12.6)       | 50.19       | (632)          | 54.32<br>54.32 | (34,351)   | 638,313          |
| July, 2019<br>July, 2019 | 26     | 118.5                              | (12.6)       | 50.19       | 341            | 54.32<br>54.32 | 18,539     | 656,851          |
| August, 2019             | 17     | 19.0                               | (1.7)        | 50.19       | (85)           | 54.32          | (4,635)    | 652,217          |
| September, 2019          | 143    | 101.9                              | 40.7         | 50.19       | 2,043          | 54.32<br>54.32 | 110,960    | 763,177          |
| October, 2019            | 299    | 271.6                              | 27.3         | 50.19       | 2,043<br>1,371 | 54.32<br>54.32 | 74,482     | 837,659          |
| ,                        | _55    | 2.0                                | <b>.</b>     | 22.23       | _,_,2          | 232            | , .02      | 22.,000          |

| Jul-17<br>  RESIDENTIAL URBAN   12,625,982<br>  RESIDENTIAL RURAL   23,477,622<br>  GENERAL SERVICE 1   30,536,731<br>  SMALL INDUSTRIAL   9,657,947 | Aug-17<br>12,403,908<br>23,720,372<br>31,603,406 | Sep-17<br>13,153,051<br>24,053,024 | Oct-17<br>12,317,370<br>24,047,236 | <b>Nov-17</b> 13,663,399 | <b>Dec-17</b> 16,879,259 | Jan-18<br>21,574,139 | Feb-18     | Mar-18     | Apr-18     | May-18     | Jun-18     |                             |
|--|--|------------------------------------|------------------------------------|--------------------------|--------------------------|----------------------|------------|------------|------------|------------|------------|-----------------------------|
| RESIDENTIAL RURAL         23,477,622           GENERAL SERVICE 1         30,536,731  | 23,720,372<br>31,603,406                         | 24,053,024                         |                                    |                          |                          |                      | 20,940,285 | 17,206,133 | 18,115,400 | 13,960,248 | 12 756 452 | excludes seasonals          |
| GENERAL SERVICE 1 30,536,731   | 31,603,406                                       |                                    |                                    | 30,982,752               | 39.777.068               | 47,538,669           | 42,694,844 | 35.364.571 | 35.916.148 | 27.818.390 |            | excludes seasonals          |
|  |  | 32,205,080                         | 29,694,829                         | 29,822,755               | 31,963,582               | 34,932,089           | 35,594,755 | 31.123.775 | 32.214.430 | 29,585,993 | -,,        | excludes seasonals          |
|  | 10,489,446                                       | 10,663,230                         | 9,156,747                          | 8,217,190                | 7,530,934                | 7,118,503            | 7,293,702  | 6,214,915  | 6,702,079  | 7,045,245  | 8,608,563  | excidues seasonais          |
| MWh 76,298   | 78,217   | 80,074                             | 75,216                             | 82,686                   | 96,151                   | 111,163              | 106,524    | 89,909     | 92,948     | 78,410     | 77,199     | 1,044,796                   |
| kWh Sales (from Sales Frcst)   |  |                                    |                                    | ACTUAL                   | -                        |                      |            |            |            | FORE       | CAST       |                             |
| Jan-19   | Feb-19   | Mar-19                             | Apr-19                             | May-19                   | Jun-19                   | Jul-19               | Aug-19     | Sep-19     | Oct-19     | Nov-19     | Dec-19     |                             |
| RESIDENTIAL URBAN & RURAL 69,978,778   | 72,257,912                                       | 62,242,138                         | 53,862,230                         | 47,157,176               | 42,647,846               | 35,800,697           | 40,884,008 | 38,476,665 | 38,482,664 | 51,076,086 | 65,084,129 | 617,950,328 rural and urban |
| GENERAL SERVICE 1 35,051,135   | 36,775,814                                       | 33,429,040                         | 32,422,341                         | 30,128,438               | 29,754,023               | 29,057,650           | 32,522,299 | 31,388,442 | 28,854,185 | 33,248,236 | 34,874,102 | 387,505,705                 |
| SMALL INDUSTRIAL 7,447,164   | 7,497,263  | 6,671,027                          | 6,736,363                          | 7,111,026                | 8,628,560                | 8,234,404            | 8,393,738  | 8,314,196  | 7,820,842  | 7,693,694  | 7,047,925  | 91,596,203                  |
|  |  |                                    |                                    |                          |                          |                      |            |            |            |            |            |                             |
| Sales Revenue (from Sales Frcst)   |  |                                    |                                    | ACTUAL                   | -                        |                      |            |            |            | FORE       | CAST       |                             |
| Jan-19   | Feb-19   | Mar-19                             | Apr-19                             | May-19                   | Jun-19                   | Jul-19               | Aug-19     | Sep-19     | Oct-19     | Nov-19     | Dec-19     |                             |
| RESIDENTIAL URBAN & RURAL 9,678,473  | 9,942,179  | 8,651,227                          | 7,582,348                          | 6,676,144                | 6,043,265                | 5,078,549            | 5,797,602  | 5,472,316  | 5,475,023  | 7,020,461  | 8,846,864  | 86,264,450 rural and urban  |
| GENERAL SERVICE 1 5,485,019  | 5,718,230  | 5,283,005                          | 5,140,735                          | 4,783,140                | 4,748,294                | 4,646,591            | 5,127,654  | 4,981,024  | 4,620,256  | 5,143,705  | 5,396,413  | 61,074,065                  |
| SMALL INDUSTRIAL 1,036,989   | 1,024,760  | 947,273                            | 943,588                            | 1,036,919                | 1,206,526                | 1,179,003            | 1,196,533  | 1,176,611  | 1,126,375  | 970,916    | 908,251    | 12,753,746                  |



### Attachment B - Revised WNR

| Appendix 5                         |  |
|------------------------------------|--|
| Schedule 1                         |  |
| Calculation of 10-Year Average HDD |  |

| Month | Normal | 1990  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014       | 2015      | 2016  | 2017  | 10 year<br>average<br>(2008 - 2017) |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-----------|-------|-------|-------------------------------------|
|       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |            |           |       |       |                                     |
| Jan   | 805    | 728   | 745   | 864   | 898   | 854   | 626   | 737   | 728   | 866   | 686   | 744   | 715   | 812   | 771        | 829       | 713   | 712   | 758                                 |
| Feb   | 730    | 764   | 679   | 761   | 731   | 698   | 677   | 763   | 686   | 664   | 608   | 697   | 700   | 672   | 717        | 858       | 628   | 657   | 689                                 |
| Mar   | 655    | 683   | 633   | 695   | 656   | 654   | 594   | 643   | 694   | 675   | 556   | 621   | 572   | 603   | 760        | 743       | 654   | 690   | 657                                 |
| Apr   | 460    | 442   | 451   | 483   | 441   | 406   | 411   | 491   | 418   | 420   | 367   | 420   | 379   | 441   | 453        | 537       | 475   | 416   | 433                                 |
| May   | 277    | 337   | 265   | 310   | 292   | 314   | 204   | 308   | 286   | 245   | 262   | 259   | 224   | 235   | 308        | 233       | 259   | 264   | 258                                 |
| Jun   | 114    | 81    | 161   | 101   | 149   | 117   | 55    | 121   | 95    | 102   | 114   | 150   | 119   | 107   | 120        | 163       | 121   | 94    | 119                                 |
| Jul   | 30     | 33    | 41    | 6     | 29    | 29    | 5     | 29    | 0     | 42    | 13    | 21    | 12    | 13    | 1          | 28        | 30    | 27    | 19                                  |
| Aug   | 35     | 15    | 35    | 33    | 19    | 17    | 52    | 38    | 20    | 30    | 21    | 14    | 5     | 17    | 28         | 3         | 23    | 29    | 19                                  |
| Sep   | 138    | 141   | 108   | 68    | 146   | 82    | 116   | 120   | 121   | 135   | 107   | 90    | 76    | 106   | 118        | 73        | 101   | 92    | 102                                 |
| Oct   | 315    | 258   | 342   | 258   | 256   | 247   | 290   | 248   | 300   | 345   | 290   | 249   | 240   | 291   | 228        | 315       | 255   | 203   | 272                                 |
| Nov   | 471    | 467   | 486   | 432   | 462   | 402   | 374   | 446   | 421   | 392   | 429   | 397   | 424   | 472   | 461        | 420       | 401   | 440   | 426                                 |
| Dec   | 685    | 610   | 677   | 606   | 654   | 628   | 592   | 733   | 620   | 643   | 515   | 569   | 589   | 744   | 582        | 545       | 665   | 695   | 617                                 |
|       | 4,715  | 4,559 | 4,623 | 4,617 | 4,733 | 4,448 | 3,996 | 4,677 | 4,389 | 4,559 | 3,968 | 4,231 | 4,055 | 4,513 | 4,547      | 4,747     | 4,325 | 4,319 | 4,365                               |
|       |        |       |       |       |       |       |       |       |       |       |       |       |       | S     | Standard [ | Deviation |       |       | 239                                 |

Appendix 5
Schedule 2
Calculation of MWh/HDD Coefficient

|      |       |                     |               | on or iviving the |                              |                               |                           |                           |
|------|-------|---------------------|---------------|-------------------|------------------------------|-------------------------------|---------------------------|---------------------------|
| Year | Month | Days<br>in<br>month | Actual<br>HDD | HDD<br>per day    | Reported<br>sales<br>( MWh ) | Fewer<br>hours of<br>daylight | Average<br>HDD<br>per day | Average<br>MWh<br>per day |
|      |       |                     |               |                   |                              |                               |                           |                           |
| 2017 | Jul   | 31                  | 27            | 0.9               | 76,298                       |                               |                           |                           |
|      | Aug   | 31                  | 29            | 0.9               | 78,217                       |                               |                           |                           |
|      | Sep   | 30                  | 92            | 3.1               | 80,074                       |                               |                           |                           |
|      | Oct   | 31                  | 203           | 6.5               | 75,216                       | 2.52                          | 4.8                       | 2,50                      |
|      | Nov   | 30                  | 440           | 14.7              | 82,686                       | 4.07                          | 10.6                      | 2,66                      |
|      | Dec   | 31                  | 695           | 22.4              | 96,151                       | 5.21                          | 18.5                      | 3,20                      |
| 2018 | Jan   | 31                  | 764           | 24.7              | 111,163                      | 5.40                          | 23.5                      | 3,58                      |
|      | Feb   | 28                  | 621           | 22.2              | 106,524                      | 4.53                          | 23.4                      | 3,43                      |
|      | Mar   | 31                  | 602           | 19.4              | 89,909                       | 3.11                          | 20.8                      | 3,21                      |
|      | Apr   | 30                  | 445           | 14.8              | 92,948                       | 1.53                          | 17.1                      | 2,99                      |
|      | May   | 31                  | 280           | 9.0               | 78,410                       | 0.00                          | 11.9                      | 2,61                      |
|      | Jun   | 30                  | 168           | 5.6               | 77,199                       |                               |                           |                           |
|      |       |                     | _             | ession results:   |                              |                               |                           |                           |
|      |       |                     | (Oct 2017 -   | May 2018)         |                              |                               |                           |                           |
|      |       |                     | HDD           | Daylight hrs      | b                            |                               |                           |                           |
|      |       |                     | 50.19         | 51.18             | 2039.06                      | coefficients                  |                           |                           |
|      |       |                     | 5.35          | 18.99             | 82.54                        | standard erro                 | r coefficient             | :S                        |
|      |       |                     | 0.97          | 81.40             | #N/A                         | R^2, standar                  | d error y                 |                           |
|      |       |                     | 81.77         | 5.00              | #N/A                         | F, degrees of                 | freedom                   |                           |
|      |       |                     | 1083543       | 33128.63          | #N/A                         | Regression SS                 | s, residual S             | S                         |
|      |       |                     | 9.38          | 2.70              | 24.70                        | t values                      |                           |                           |

| Calculation o                       | Appendix 5<br>Schedule 3<br>f Forecast Marginal No |                   | for 20 | 19                  |
|-------------------------------------|--|-------------------|--------|---------------------|
| Appendix 5<br>Schedule 1            | 2  | 019 (Forecast)    |        |                     |
| Rate Class                          | Revenue<br>(\$)                                    | Sales<br>(MWh)    |        | t Revenue<br>5/MWh) |
| Residential                         | 84,777,377   | 617,950           |        |                     |
| General Service<br>Small Industrial | 60,108,478<br>12,759,419                           | 387,506<br>91,596 |        |                     |
| Total                               | 157,645,274  | 1,097,052         | \$     | 143.70              |
| ECAM Base Rate                      |  |                   | \$     | (91.61)             |
|                                     | Marginal Net Revenue                               | e Rate            | \$     | 52.09               |
| * Excludes revenue an               | d kWh sales from seaso                             | onal customers    |        |                     |

Appendix 5
Schedule 4
Monthly Change in Weather Normalization Reserve - January 1, 2016 to October 31, 2019

|                 |                | leating Degree I<br>( below 18 deg | •  | Space he                 | eating load                          |                                     | Weather Norma                  | lization Reserve                       |
|-----------------|----------------|------------------------------------|--|--------------------------|--------------------------------------|-------------------------------------|--------------------------------|--|
| MM/YY           | Actual<br>HDD  | 10 Year<br>Average<br>Monthly HDD  | Variation<br>from 10 Year<br>Average HDD | Coefficient<br>(MWh/HDD) | Variation<br>from Average<br>( MWh ) | Marginal<br>Net Revenue<br>(\$/MWh) | Increase<br>(Decrease)<br>(\$) | Balance Owing<br>(Recoverable)<br>(\$) |
| January, 2016   | 713.0          | 753.9                              | (40.9)                                   | 41.73                    | (1,707)                              | 50.42                               | (86,055)                       | (86,055                                |
| February, 2016  | 628.2          | 688.2                              | (60.0)                                   | 41.73                    | (2,504)                              | 50.42                               | (126,242)                      | (212,296                               |
| March, 2016     | 654.0          | 637.2                              | 16.8                                     | 41.73                    | 701                                  | 50.42                               | 35,348                         | (176,949                               |
| April,2016      | 475.0          | 420.6                              | 54.4                                     | 41.73                    | 2,270                                | 50.42                               | 114,459                        | (62,490                                |
| May, 2016       | 259.0          | 264.5                              | (5.5)                                    | 41.73                    | (230)                                | 50.42                               | (11,572)                       | (74,062                                |
| June, 2016      | 121.0          | 110.0                              | 11.0                                     | 41.73                    | 459                                  | 50.42                               | 23,144                         | (50,917                                |
| July, 2016      | 30.0           | 16.5                               | 13.5                                     | 41.73                    | 563                                  | 50.42                               | 28,404                         | (22,513                                |
| August, 2016    | 23.0           | 24.2                               | (1.2)                                    | 41.73                    | (50)                                 | 50.42                               | (2,525)                        | (25,038                                |
| September, 2016 | 101.0          | 107.1                              | (6.1)                                    | 41.73                    | (255)                                | 50.42                               | (12,835)                       | (37,872                                |
| October, 2016   | 255.0          | 272.8                              | (17.8)                                   | 41.73                    | (743)                                | 50.42                               | (37,452)                       | (75,324                                |
| November, 2016  | 401.0          | 421.8                              | (20.8)                                   | 41.73                    | (868)                                | 50.42                               | (43,764)                       | (119,088                               |
| December, 2016  | 665.0          | 620.5                              | 44.5                                     | 41.73                    | 1,857                                | 50.42                               | 93,629                         | (25,459                                |
| January, 2017   | 712.0          | 751.4                              | (39.4)                                   | 43.21                    | (1,702)                              | 49.56                               | (84,375)                       | (109,833                               |
| February, 2017  | 657.0          | 704.2                              | (47.2)                                   | 43.21                    | (2,040)                              | 49.56                               | (101,078)                      | (210,912                               |
| March, 2017     | 690.0          | 646.1                              | 43.9                                     | 43.21                    | 1,897                                | 49.56                               | 94,011                         | (116,900                               |
| April,2017      | 416.0          | 433.7                              | (17.7)                                   | 43.21                    | (765)                                | 49.56                               | (37,904)                       | (154,805                               |
| May, 2017       | 264.0          | 256.4                              | 7.6                                      | 43.21                    | 328                                  | 49.56                               | 16,275                         | (138,529                               |
| June, 2017      | 94.0           | 114.6                              | (20.6)                                   | 43.21                    | (890)                                | 49.56                               | (44,115)                       | (182,644                               |
| July, 2017      | 27.0           | 16.4                               | 10.6                                     | 43.21                    | 458                                  | 49.56                               | 22,700                         | (159,944                               |
| August, 2017    | 29.0           | 22.8                               | 6.2                                      | 43.21                    | 268                                  | 49.56                               | 13,277                         | (135,544                               |
| September, 2017 | 92.0           | 106.2                              | (14.2)                                   | 43.21                    | (614)                                | 49.56                               | (30,409)                       | (146,667                               |
| October, 2017   | 202.8          | 279.6                              | (76.8)                                   | 43.21                    | . ,                                  | 49.56                               |                                |  |
| November, 2017  | 439.7          | 423.6                              | 16.1                                     | 43.21                    | (3,319)<br>696                       | 49.56                               | (164,466)                      | (341,542<br>(307,064                   |
| December, 2017  | 695.4          | 613.2                              | 82.2                                     | 43.21                    | 3,552                                | 49.56                               | 34,478<br>176,030              | (131,034                               |
|                 |                |                                    |  |                          |                                      |                                     |                                |  |
| January, 2018   | 764.4          | 760.1                              | 4.3                                      | 46.66                    | 201                                  | 51.38                               | 10,309                         | (120,725                               |
| February, 2018  | 620.8          | 699.3                              | (78.5)                                   | 46.66                    | (3,663)                              | 51.38                               | (188,195)                      | (308,920                               |
| March, 2018     | 602.0          | 652.1                              | (50.1)                                   | 46.66                    | (2,338)                              | 51.38                               | (120,109)                      | (429,030                               |
| April,2018      | 445.1<br>279.9 | 440.1                              | 5.0                                      | 46.66                    | 233<br>840                           | 51.38                               | 11,987                         | (417,043                               |
| May, 2018       |                | 261.9                              | 18.0                                     | 46.66                    |                                      | 51.38                               | 43,153                         | (373,890                               |
| June, 2018      | 168.4          | 121.2                              | 47.2                                     | 46.66                    | 2,202                                | 51.38                               | 113,157                        | (260,733                               |
| July, 2018      | 14.0           | 18.9                               | (4.9)                                    | 46.66                    | (229)                                | 51.38                               | (11,747)                       | (272,480                               |
| August, 2018    | 9.4            | 19.9                               | (10.5)                                   | 46.66                    | (490)                                | 51.38                               | (25,173)                       | (297,653                               |
| September, 2018 | 124.7          | 104.7                              | 20.0                                     | 46.66                    | 933                                  | 51.38                               | 47,948                         | (249,705                               |
| October, 2018   | 338.7          | 276.1                              | 62.6                                     | 46.66                    | 2,921                                | 51.38                               | 150,077                        | (99,628                                |
| November, 2018  | 519.5          | 426.3                              | 93.2                                     | 46.66                    | 4,349                                | 51.38                               | 223,437                        | 123,809                                |
| December, 2018  | 709.0          | 620.5                              | 88.5                                     | 46.66                    | 4,129                                | 51.38                               | 212,169                        | 335,978                                |
| January, 2019   | 756.5          | 757.6                              | (1.1)                                    | 50.19                    | (55)                                 | 52.09                               | (2,876)                        | 333,102                                |
| February, 2019  | 736.8          | 688.7                              | 48.1                                     | 50.19                    | 2,414                                | 52.09                               | 125,750                        | 458,852                                |
| March, 2019     | 637.5          | 656.8                              | (19.3)                                   | 50.19                    | (969)                                | 52.09                               | (50,457)                       | 408,395                                |
| April,2019      | 448.8          | 432.6                              | 16.2                                     | 50.19                    | 813                                  | 52.09                               | 42,352                         | 450,747                                |
| May, 2019       | 351.6          | 257.5                              | 94.1                                     | 50.19                    | 4,723                                | 52.09                               | 246,010                        | 696,757                                |
| June, 2019      | 105.9          | 118.5                              | (12.6)                                   | 50.19                    | (632)                                | 52.09                               | (32,941)                       | 663,817                                |
| July, 2019      | 25.5           | 18.7                               | 6.8                                      | 50.19                    | 341                                  | 52.09                               | 17,778                         | 681,594                                |
| August, 2019    | 17.3           | 19.0                               | (1.7)                                    | 50.19                    | (85)                                 | 52.09                               | (4,444)                        | 677,150                                |
| September, 2019 | 142.6          | 101.9                              | 40.7                                     | 50.19                    | 2,043                                | 52.09                               | 106,404                        | 783,554                                |
| October, 2019   | 298.9          | 271.6                              | 27.3                                     | 50.19                    | 1,371                                | 52.09                               | 71,424                         | 854,977                                |

| kWh Sales (from Sales Frcst)             |             |             |            |            |            |            |            |             |            |             |             |             |                             |
|--|-------------|-------------|------------|------------|------------|------------|------------|-------------|------------|-------------|-------------|-------------|-----------------------------|
|  | Jul-17      | Aug-17      | Sep-17     | Oct-17     | Nov-17     | Dec-17     | Jan-18     | Feb-18      | Mar-18     | Apr-18      | May-18      | Jun-18      |                             |
| RESIDENTIAL URBAN                        | 12,625,982  | 12,403,908  | 13,153,051 | 12,317,370 | 13,663,399 | 16,879,259 | 21,574,139 | 20,940,285  | 17,206,133 | 18,115,400  | 13,960,248  | 12,756,452  | excludes seasonals          |
| RESIDENTIAL RURAL                        | 23,477,622  | 23,720,372  | 24,053,024 | 24,047,236 | 30,982,752 | 39,777,068 | 47,538,669 | 42,694,844  | 35,364,571 | 35,916,148  | 27,818,390  | 26,063,605  | excludes seasonals          |
| GENERAL SERVICE 1                        | 30,536,731  | 31,603,406  | 32,205,080 | 29,694,829 | 29,822,755 | 31,963,582 | 34,932,089 | 35,594,755  | 31,123,775 | 32,214,430  | 29,585,993  | 29,769,881  | excludes seasonals          |
| SMALL INDUSTRIAL                         | 9,657,947   | 10,489,446  | 10,663,230 | 9,156,747  | 8,217,190  | 7,530,934  | 7,118,503  | 7,293,702   | 6,214,915  | 6,702,079   | 7,045,245   | 8,608,563   |                             |
| MWh                                      | 76,298      | 78,217      | 80,074     | 75,216     | 82,686     | 96,151     | 111,163    | 106,524     | 89,909     | 92,948      | 78,410      | 77,199      | 1,044,796                   |
|  |             |             |            |            |            |            |            |             |            |             |             |             |                             |
| kWh Sales (from Sales Frcst)             |             | ACTUAL      |            |            |            |            |            |             |            | FORECAST    |             |             |                             |
|  | Jan-19      | Feb-19      | Mar-19     | Apr-19     | May-19     | Jun-19     | Jul-19     | Aug-19      | Sep-19     | Oct-19      | Nov-19      | Dec-19      |                             |
| RESIDENTIAL URBAN & RURAL                | 69,978,778  | 72,257,912  | 62,242,138 | 53,862,230 | 47,157,176 | 42,647,846 | 35,800,697 | 40,884,008  | 38,476,665 | 38,482,664  | 51,076,086  | 65,084,129  | 617,950,328 rural and urban |
| GENERAL SERVICE 1                        | 35,051,135  | 36,775,814  | 33,429,040 | 32,422,341 | 30,128,438 | 29,754,023 | 29,057,650 | 32,522,299  | 31,388,442 | 28,854,185  | 33,248,236  | 34,874,102  | 387,505,705                 |
| SMALL INDUSTRIAL                         | 7,447,164   | 7,497,263   | 6,671,027  | 6,736,363  | 7,111,026  | 8,628,560  | 8,234,404  | 8,393,738   | 8,314,196  | 7,820,842   | 7,693,694   | 7,047,925   | 91,596,203                  |
|  |             |             |            |            |            |            |            |             |            |             |             |             |                             |
| Revised Sales Revenue (from Sales Frcst) |             | ACTUAL      |            |            |            |            |            |             |            |             | FORECAST    |             |                             |
| -  | Jan-19      | Feb-19      | Mar-19     | Apr-19     | May-19     | Jun-19     | Jul-19     | Aug-19      | Sep-19     | Oct-19      | Nov-19      | Dec-19      |                             |
| RESIDENTIAL URBAN & RURAL                | 9,469,400   | 9,739,625   | 8,475,305  | 7,418,237  | 6,537,796  | 5,923,334  | 4,972,696  | 5,674,449   | 5,348,210  | 5,350,999   | 7,020,461   | 8,846,864   | 84,777,377 rural and urban  |
| GENERAL SERVICE 1                        | 5,386,773   | 5,615,783   | 5,185,843  | 5,015,085  | 4,699,300  | 4,652,755  | 4,558,749  | 5,035,000   | 4,881,224  | 4,537,848   | 5,143,705   | 5,396,413   | 60,108,478                  |
| SMALL INDUSTRIAL                         | 1,022,588   | 1,004,068   | 928,570    | 924,996    | 1,017,315  | 1,182,711  | 1,156,276  | 1,173,388   | 1,153,605  | 1,104,789   | 1,078,944   | 1,012,169   | 12,759,419                  |
|  |             |             |            |            |            |            |            |             |            |             |             |             |                             |
| Small Industrial \$/kWh                  | 0.137312366 | 0.133924599 | 0.13919453 | 0.13731385 | 0.1430616  | 0.13706931 | 0.14042016 | 0.139793271 | 0.13875129 | 0.141262211 | 0.140237374 | 0.143612329 |                             |
| .,                                       |             |             |            |            |            |            |            |             |            |             |             |             |                             |
| Previous Amounts Submitted               |             |             |            |            |            |            |            |             |            |             |             |             |                             |
| RESIDENTIAL URBAN & RURAL                | 9,678,473   | 9,942,179   | 8,651,227  | 7,582,348  | 6,676,144  | 6,043,265  | 5,078,549  | 5,797,602   | 5,472,316  | 5,475,023   | 7,020,461   | 8,846,864   |                             |
| GENERAL SERVICE 1                        | 5,485,019   | 5,718,230   | 5,283,005  | 5,140,735  | 4,783,140  | 4,748,294  | 4,646,591  | 5,127,654   | 4,981,024  | 4,620,256   | 5,143,705   | 5,396,413   |                             |
| SMALL INDUSTRIAL                         | 1,036,989   | 1,024,760   | 947,273    | 943,588    | 1,036,919  | 1,206,526  | 1,179,003  | 1,196,533   | 1,176,611  | 1,126,375   | 970,916     | 908,251     |                             |
|  |             |             |            |            |            |            |            |             |            |             |             |             |                             |
| ECAM Adjustment                          | (400.444)   | (400, 400)  | (474 700)  | (4.40,000) | (420.454)  | (447 700)  | (00.040)   | (442.040)   | (405 405)  | (405 242)   |             |             |                             |
| RESIDENTIAL URBAN & RURAL                | (193,141)   | (199,432)   | (171,788)  | (148,660)  | (130,154)  | (117,708)  | (98,810)   | (112,840)   | (106,196)  | (106,212)   |             |             |                             |
| GENERAL SERVICE 1                        | (96,741)    | (101,501)   | (92,264)   | (89,486)   | (83,154)   | (82,121)   | (80,199)   | (89,762)    | (86,632)   | (79,638)    |             |             |                             |
| SMALL INDUSTRIAL                         | (20,554)    | (20,692)    | (18,412)   | (18,592)   | (19,626)   | (23,815)   | (22,727)   | (23,167)    | (22,947)   | (21,586)    |             |             |                             |
| Revenue Adjustments                      |             |             |            |            |            |            |            |             |            |             |             |             |                             |
| RESIDENTIAL URBAN & RURAL                | (15,931)    | (3,122)     | (4,134)    | (15,451)   | (8,194)    | (2,223)    | (7,043)    | (10,313)    | (17,911)   | (17,812)    |             |             |                             |
| GENERAL SERVICE 1                        | (1,505)     | (946)       | (4,897)    | (36,164)   | (685)      | (13,418)   | (7,642)    | (2,892)     | (13,167)   | (2,771)     |             |             |                             |
| SMALL INDUSTRIAL                         | 6,153       | -           | (291)      |            | 22         |            | -          | 21          | (59)       |             |             |             |                             |
| Forecast Adjustment to Small Industrial  |             |             |            |            |            |            |            |             |            |             | 108,028     | 103,918     |                             |
| To ecast Aujustinent to sman muustiidi   |             |             |            |            |            |            |            |             |            |             | 100,028     | 103,518     |                             |
| 1  |             |             |            |            |            |            |            |             |            |             |             |             |                             |