# Appendix C –

# Measure Substantiation Sheet

## Measure Name

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| --- |
| **Conservation Measure Description** |
|  |
| **Base Measure Description** |
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## Codes, Standards and Regulations

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| **Provide any reference to Codes, Standards, and Regulations related to the efficiency level of the Base Equipment and Efficient Equipment:**  |

## Resource Savings Summary Table

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Base Measure** | **Conservation Measure** | **Savings** |
| Summer Peak Demand (kW) |  |  |  |
| Winter Peak Demand (kW) |  |  |  |
| Annual Electricity (kWh) |  |  |  |
| Effective Useful Life (EUL) | N/A |  | N/A |

## Resource Savings Calculations

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| --- |
| **Annual Energy Savings** |
| **Base Measure Calculation:****Conservation Measure Calculation:****Energy Savings Calculation:** |
| **Demand Savings – EE Capacity**  |
| **Summer/Winter Peak Demand Savings** Winter/summer peak demand savings are calculated with the following formula:$$EEAP Summer Peak Demand Savings \left(kW\right)=Annualized energy savings \left(kWh\right)\*Summer Peak Demand factor$$*=*$ \frac{\sum\_{}^{}kWh(June 1 to August 31, non-holiday weekdays, hour ending \left(HE\right) 13-21)}{594 hours}$ $$EEAP Winter Peak Demand Savings \left(kW\right)=Annualized energy savings \left(kWh\right)\*Winter Peak Demand factor =\frac{\sum\_{}^{}kWh\left(November 1 to February\frac{28}{29}, non-holiday weekdays, hour ending \left(HE\right) 17-21\right)}{425 hours} $$* The summer/winter peak demand factor is defined as the average demand of an 8760 load shape (normalized to 100%) during the Energy Efficiency demand reduction period and window.
* The number of hours under this period and window is 594 hours for the summer peak demand and 425 hours for the winter peak demand.
* The EEAP Summer/Winter Peak Demand Savings (kW) is calculated by multiplying the annual energy savings (kWh) by the peak demand factor
* Summer obligation period is June 1 to August 31, Non-holiday weekdays, Hour Ending (HE) 13-21 (12:00 pm – 9:00 pm EST, 1:00 pm -10:00 pm EDT)
* Winter obligation period is November 1 to February 28, Non-holiday weekdays, Hour Ending (HE) 17-21 (4:00 pm – 9:00 pm EST)

**Summer Demand Savings Calculation:****Winter Demand Savings Calculation:** |

Seasonal Energy Savings Pattern

|  |  |  |
| --- | --- | --- |
| Provide an hourly (8760) annual load profile created from metered data or from a verified operating schedule. If unavailable, a description of the operating hours during weekdays and weekends for different seasons will be considered. |  |  |

Sources for Resource Savings Assumptions

|  |  |
| --- | --- |
|  | **Source** |
|
| Summer Peak Demand (kW) |  |
| Winter Peak Demand (kW) |  |
| Annual Electricity (kWh) |  |
| Effective Useful Life (EUL) |  |