

WRU-2014-0013-0004

## MEMORANDUM

**To:** Curtis Klaassen, Energy Systems Engineering  
**From:** Jeanne Huntsman  
**Project:** MidAmerican Energy Company  
Commercial New Construction  
Altoona Towers, Altoona, IA  
**Project No.:** 4014990 (7590.0186)  
**Date:** January 23, 2015



**FILED WITH**  
**Executive Secretary**  
**February 27, 2015**  
**IOWA UTILITIES BOARD**

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**COMMERCIAL**  
**NEW CONSTRUCTION**  
PROGRAM

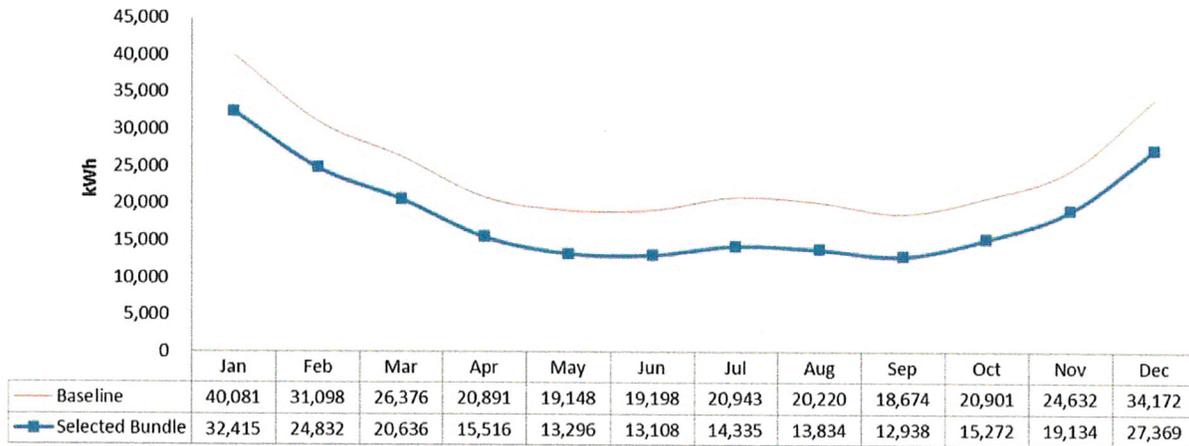
**Subject:** This memo provides the predicted monthly energy use for the baseline model and selected bundle model for the Altoona Towers project.

While the virtual building model estimates overall energy consumption, it is primarily designed to forecast savings, much like forecasting the savings from buying a fuel-efficient car. Energy consumption and savings forecasts are based on assumptions about occupancy, operations, weather, and other factors. As with a car, however, changes in use or operation affect the absolute value of savings, but the relative value—percentage saved, for example—compared to the less fuel efficient option, will still be valid. In the end, it is up to the Owner/operator to use and operate the building effectively in order to realize savings.

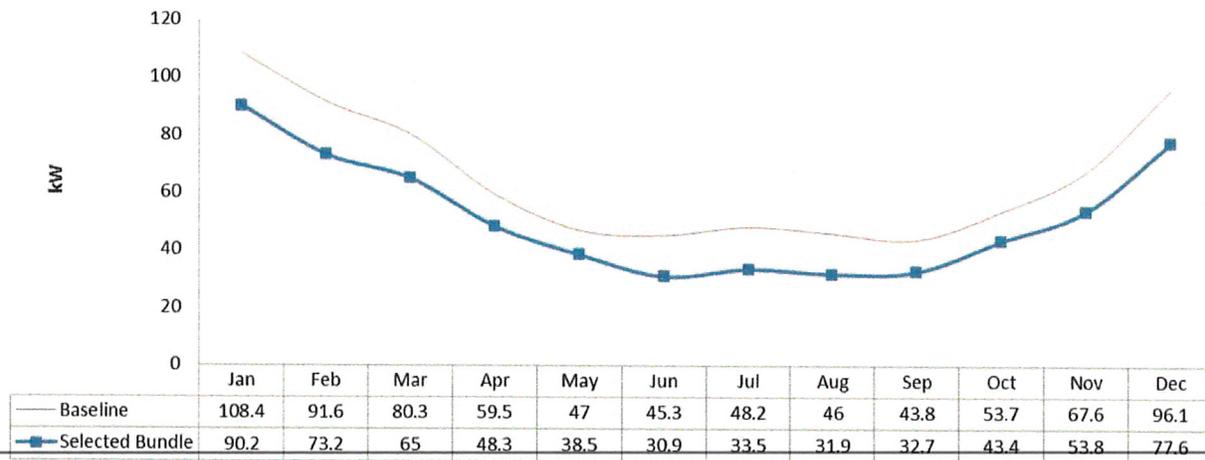
The energy model for this project separates the public spaces from the residential apartment spaces.

The results shown in this memo include energy saving strategies that were selected by the design team during the design phases of the project. Changes made to the project after the selection of the bundle will affect the energy use of the project and therefore the results presented in this memo

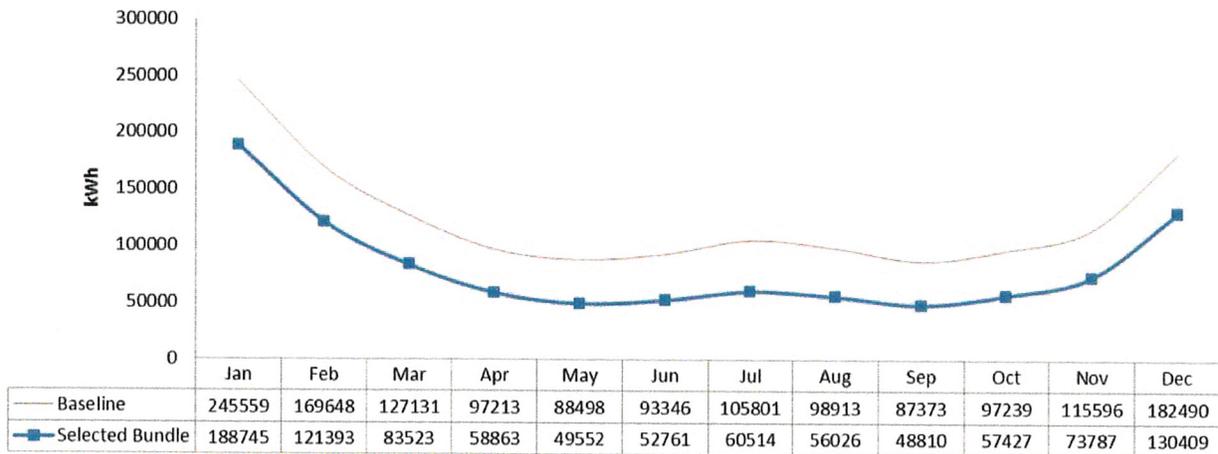
**Table 1. Monthly Energy Use for Public Spaces – Electric Consumption (kWh)**



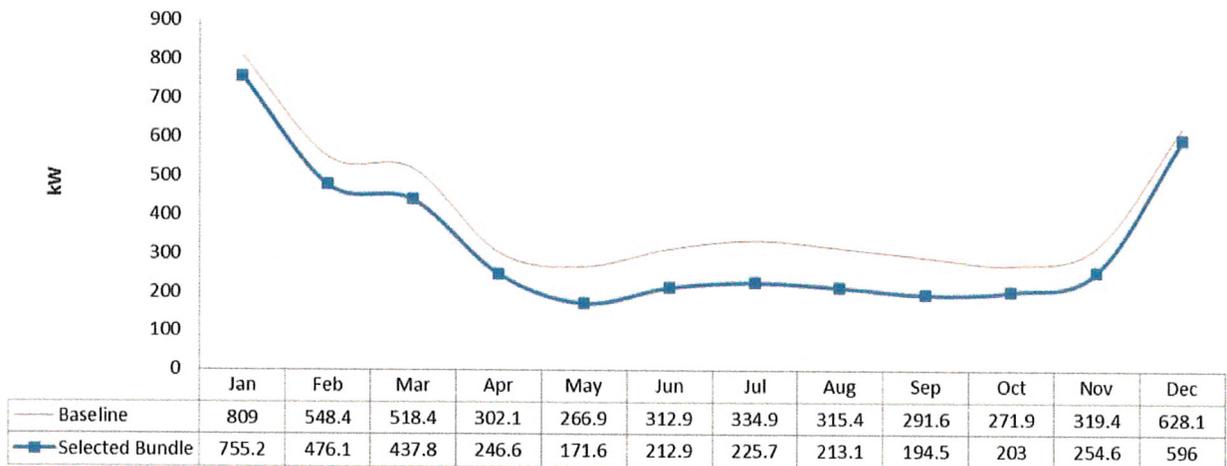
**Table 2. Monthly Energy Use for Public Spaces – Peak Demand (kW)**



**Table 3. Monthly Energy Use for Residential Apartment – Electric Consumption (kWh)**



**Table 4. Monthly Energy Use for Residential Apartments – Peak Demand (kW)**



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Copies:

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