**Tenant Space Energy Modeling Analysis**

Engineering and Technical Services Request for Proposal (RFP)

***[Note: This tenant space energy modeling RFP template is a framework to be adjusted to the project specific needs]***

**Scope of Work**

**I. Energy Modeling**

Develop an energy optimization strategy by proposing and reviewing efficiency and conservation measures. A list of energy measures will be used to simulate conditions and quantify energy use impact through modeling tools such as eQUEST or comparable DOE software. The energy modeling exercise serves to provide accurate key metrics of energy consumption and equipment sizing impacts in space design, and provide options with energy performance above minimal code compliant baseline.

**Task 1 – Develop Design Options**

Work with the project team to develop a list of system options for consideration in the model. Discuss and consider standard and high efficiency options including mechanical and passive strategies, reducing external and internal loads and opportunities in heating, cooling, lighting and plug load reduction measures.

*Meetings:* - Two 2 hour meetings project team

Attend the high performance tenant and energy modeling workshops. Attend status meetings and/ or calls, summarizing progress to project team. Provide preliminary results to ensure the modeling is realistically capturing cost savings including equipment first cost, energy cost, and operational cost.

*Deliverables:* - List of options in memo format

Develop a preliminary list of measures, and (3) package scenarios providing estimated good, better best energy savings impact on tenant and building owner spaces.

**Task 2 – Create Baseline Energy Model**

The tenant space will be modeled in eQuest, using information provided by the project team including drawings, utility data and additional building or operational information as requested. Following the whole building geometry and massing development, space zoning, load, functions, and external environmental conditions of the space will be incorporated into the model. The model will be calibrated using existing utility information as required.

*Deliverables:* - Baseline model of building in eQuest format

- Summary report of baseline energy usage

**Task 3 –System Scenario Modeling**

Provide three or more system options including high, medium, and low impact packages defined during the project team workshops. The scenarios are to provide interactive analysis of measures, reflect any linked impacts to the baseline model, and represent the most feasible or attractive design options for clear comparison above code compliant energy use.

*Deliverables:* - Scenario models of building in eQuest format

- Summary memo report of scenario energy usages

**Task 4 – Data reporting and analysis**

Provide a final report that documents the model conditions and iterations performed. Report will include levels of energy efficiency beyond code compliant design and design intent and project team process background used during the analysis process.

*Deliverables:* - Final energy modeling report and final model