

**Breadth Areas*****-Lighting***

Since it is important to minimize the amount of energy required and maximizing the energy usage, an analysis will be conducted on the lighting in areas of concern.

Lighting can be one of the largest loads on a building. A well designed lighting system and conserve energy along with providing adequate lighting. Using energy saving lamps will benefit the owner with lower annual operating costs.

***-Electrical***

Integrating the chilled beams will have a noticeable reduction in energy consumption. Optimizing the lighting in the areas of concern will also show impact on the electrical load. Since both redesigns will show reduction of energy consumption, the electrical system will need to be re-evaluated with the new loads in mind. Since the electricity usage will change, all of the affected panels will be resized along with the circuits and feeders.