

## **Exhibit X.C.3 (Energy Efficient Equipment):**

*Submit as Exhibit X.C.3. a description of Applicant's plans for ensuring use of Energy Star-rated equipment and high-efficiency HVAC equipment and appliances throughout the Gaming Facility complex.*

### **Energy Conservation**

The design approach is to utilize energy efficient equipment and implement energy conservation measures as described herein below. This design approach will be examined further during the exhaustive design process with the consideration of appropriate alternative design solutions. The project will incorporate the latest technologies associated with energy conservation and mitigation through the use of high-efficiency equipment, and technologies coupled with a sophisticated use of building automation, lighting controls, demand ventilation and occupancy sensors as appropriate.

Furthermore, appliances will be Energy Star-rated when and where available. Major mechanical equipment will utilize high-efficiency motors and electronically controlled variable frequency/variable speed drives, which provide better control and significant energy savings at the same time. Cooling will be provided by multiple high-efficiency, electrically driven, variable speed centrifugal water chillers, the use of ground source geothermal will be evaluated to shave loads and promote renewable energy use. All major air handling equipment will incorporate the use of an airside economizer cycle and heat exchange wheels to further reduce the use of paid cooling when outside air conditions permit.

Additional energy conservation measures include automatic light level controls, occupancy sensors for both lighting as well as creature comfort control, advanced hotel room occupancy controls for power and comfort system controls, air-to-air heat recovery where appropriate on outside air systems, and demand ventilation controls for all public spaces, whereby the amount of fresh air is continuously monitored and controlled to maintain fresh air at all times, but is automatically reduced during low or light occupancy periods.

Each of the above-referenced energy conservation technologies and techniques will be vetted through the use of computer simulation techniques, which have been and will continue to be actively pursued to permit the sharpening of these design concepts to ensure total energy solutions for the project. This includes the application of energy consumption programs that permit analysis of alternative design strategies, employing system type, operating schedules and real-time weather data. In addition, pipe sizing, wire sizing, duct sizing and other subsystems will be evaluated through these same computer simulation techniques coupled with BIM technology to ensure proper energy-saving performance at minimal cost.

Furthermore, the applicant shall investigate energy efficient gaming machines to further reduce the electrical load. Examples may include energy efficient slot machines, which utilize LED lighting to achieve significant dollar per-year-per-machine savings.