

## **X. WORKFORCE ENHANCEMENT FACTORS**

### **C. SUSTAINABILITY AND RESOURCE MANAGEMENT**

#### **7. ENERGY CONSUMPTION MONITORING**

*Submit as Exhibit X. C.7. a description of plans for developing an ongoing system that will submeter and monitor all major sources of energy consumption and for undertaking regular and sustained efforts throughout the life--cycle of the facility to maintain and improve energy efficiency and reliance on renewable sources of power in all buildings and equipment that are part of the facility.*

Energy consumption for this project will be accomplished through a Measurement and Verification Program in accordance with the requirements of LEED Credit EAc5. The M&V Plan will be based upon Option D: Calibrated Simulation of the *International Performance Measurement & Verification Protocol (IPMVP) Volume III: Concepts and Options for Determining Energy Savings in New Construction, April, 2003.*

The plan is intended to verify the cost of consumption and savings associated with energy efficiency measures incorporated into the design, and to provide a recalibrated energy model that will serve as a tool in identifying and remedying causes of underperformance. Through the use of the building management system (BMS) data logging and permanently installed sub-metering, the facility's operations staff will access the ongoing performance and compare it to the commissioning and energy modeling firm's data to measure the actual utility usage of the building and key end uses for one year of post-occupancy consumption. A program will be developed during that year for continued monitoring and modeling of the systems performance into the future.