

## **Commissioning – Academic Daemen College Academic Center for Information, Research & Community Programs Amherst, New York**

### **Program**

NYSERDA New Construction Program

### **Scope of Services**

- Project Scoping
- Design Assistance
- DOE-2.1E Whole Building Modeling
- Green Building Services
- EEM/Sustainable Design Coordination
- Cost Benefit Analysis
- Incentive Calculation & Reporting
- LEED Optimize Energy Performance
- LEED Fundamental Commissioning
- LEED Additional Commissioning

### **Level of Involvement**

NCP Technical Assistance Provider  
LEED Commissioning Authority

### **Facility Size**

47,000 sq. ft.

### **Facility Type**

Library

### **Project Results**

Achieved LEED-NC v2.1 Gold Certification

Daemen College is a private liberal arts school in Amherst, NY, a suburb of Buffalo that has an enrollment of 1,700 undergraduate and 400 graduate students. The Center for Information, Research and Community, was designed and constructed to be hub of academic research and support services for the College. The Center now provides a variety of educational and information research services for the student body.

The college administrators were committed to constructing a green building and focused on that goal from the start. As a result, the project achieved a LEED-NC V2.1 Gold Rating, uses 34% less energy, based on costs, than a reference building compliant with ASHRAE Standard 90.1-1999. Commissioning played a key role in the process and achieving the college's goal for the project.



### **Center for Information, Research & Community Programs**

Air-handling units equipped with hot and chilled water coils supply conditioned air through a variable air volume (VAV) system. The project included a high performance building envelope, efficient lighting, building management system and many other high efficiency components.

Commissioning occurred throughout the entire course of the project, from the development of the Owner's Program and Basis of Design, through the traditional design and construction phases, to acceptance phase at the end of construction. The primary goal of commissioning is to deliver a fully functional, fine-tuned building with complete documentation and an adequately trained operating and maintenance staff. Thorough system commissioning ensures that building systems perform in conformity with the design intent, and furthermore, provides the operations and maintenance staff with the information, documentation and training necessary to keep the system operating at peak efficiency and effectiveness for the life of the system.

The commissioning activities included verifying that the proper project documentation had been delivered and that personnel were properly trained on the equipment. We ensured that the start-up reports and TAB reports were done and followed by functional testing that demonstrated that the equipment and systems were performing in accordance with the design intent.