

KUNSELA HALL CONVERSION RENOVATIONS

SUNY Institute of Technology

Owner: State University of New York

Contact: Mr. Mark Kentile, (518) 689-2617

Budget: \$2.9 Million (\$1.8 Million MEP)

Completed: 2005

Key Design Elements:

- ◆ Existing Building Renovation
- ◆ Educational Space
- ◆ Building Conversion
- ◆ Lighting Design
- ◆ Mechanical Systems
- ◆ Electrical Systems
- ◆ Life Safety Systems
- ◆ Emergency Power
- ◆ Building Envelope Requirements



UTICA, NY — Plumb Engineering, P.C. was contracted by the State University of New York to perform important mechanical, electrical, plumbing, and life safety renovations to Kunsela Hall at the SUNY IT Utica-Rome Campus. The project goal was to convert an existing library wing into classroom and office space.

The electrical design provides new lighting, power, receptacles, voice/data outlets, and power feeders from the main switchgear to new transformers and distribution panels. The design includes both 277/480 and 120/208 systems. There are separate normal power systems along with an emergency power life safety branch and separate critical branch wiring systems.

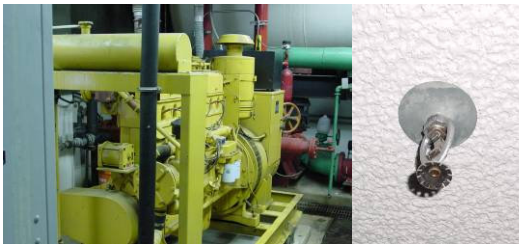
Separate mechanical system power feeders were provided at 480 volt, 3-phase with variable speed/frequency controllers interfaced with a direct digital control system.

The mechanical system utilizes heating hot water from the existing building system and adds an additional steam-to-water heat exchanger. Similarly, the design uses chilled water from the existing building system loop.

A new air handling unit supplements an existing unit to meet increased load requirements and provides VA zone control. The design also required replacing existing fin tube radiation in order to meet building envelope load requirements.

Plumb also added to the existing fire alarm system. This design includes pull stations, automatic smoke and heat detectors, wiring, and fan shutdown coupled with an addressable system.

The new design promises to provide valuable added space to the SUNY IT Utica-Rome Campus.



Above: Utilizing Existing Systems allowed for cost-savings to the owner

Below: HVAC renovations meet new load requirements



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