

Siena College New Residence Hall

Loudonville, New York



Novus Engineering, P.C. served as Commissioning Authority for Siena College's New Residence Dormitory project. Novus commissioned the building envelope,

HVAC and lighting systems for this new 95,000 square foot dorm and dining hall building which can house and feed 264 students.

Early in the construction process, Novus inspections revealed issues regarding the air tightness of the building envelope. Spray foam insulation was being used but was not continuous across the entire envelope, causing potential for cold spots and infiltration. The problem was corrected immediately by the contractor.

HVAC commissioning activities were extensive including roof top air handlers, makeup air units, exhaust fans, heat pumps, chiller, boilers, pumping systems, variable refrigerant volume systems, mini-split systems, and lighting control systems. Extensive effort was put into the setup of the HVAC controls, which had to manage multiple systems in the most efficient manner. Additional effort was required to deal with control system communications anomalies. Ultimately all issues were resolved.

Due to the tight building envelope and well tuned controls, the college is realizing extraordinary HVAC energy savings compared to other buildings on campus.



Construction Project Cost: \$20M

Completion Date:

September 2010

NCP Incentive Received: \$72,825

NOVUS
ENGINEERING, P.C.

25 Delaware Avenue
Delmar, NY 12054

P: 518.439.8235

F: 518.439.8592

www.novusengineering.com

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