Timothy J. Nugent Hall

Building Gross Sq. Ft: 115,517

Retrocommissioning December 2019 - April 2020

Principal Building Use: Student Housing

Building & Occupant Overview

Nugent Hall is a LEED Silver-certified residence hall constructed in 2012 located in Ikenberry Commons on the University of Illinois campus. The building was named after Timothy J. Nugent, a pioneer in accessibility for people with disabilities.

Nugent Hall is home to mostly upper-class undergraduate students and the Beckwith Residential Community for students with severe physical disabilities. It features a variety of accessible features, including roll-in showers, adjustable furniture, and wireless paging. The building also has a variety of amenities for residents, including a computer lab, study rooms, a lounge, and a laundry room. Nugent Hall is connected to the Student Dining and Residential Programs Building (SDRP) by an interior walkway, which provides residents with convenient access to food and other services.



Project Highlights

□ Scheduled DOA off during unoccupied times

□Reduced minimum airflow setpoints for VAVs

Used DDC to schedule unoccupied temperatures during breaks

□ Installed an exhaust fan in the RA apartment

□ Resolved several FCU issues

□ Added humidity sensors to hallways

□ Calibrated sensors and dampers in AHUs and room VAV boxes

2023 Update

□ VFDs added to DOA1c supply and return fans

□ Controls were updated to latest version

Retrocommissioning Specifics & Results

The DOA units were scheduled off during summer, fall, spring, and winter breaks. Humidity will not be affected as the exhaust fans will not be in operation during these times. To allow the DOA to remain off during these breaks, an exhaust fan was installed in the RA apartment to give an exhaust boost during showers.

Many FCU issues have been resolved. These issues include disabled alarms, incorrect fan status being displayed, broken actuators, and reversed heating valves.

Overall, the Retrocommissioning Team has been successful in reducing costs by over \$210,500 as of September 2023, with a projected savings of \$90,000 annually, corresponding to a substantial 27.88% reduction in total ener-

1

