



Building Automation Systems

Project Profile

Health Care
Industry

World Renowned Children's Hospital Takes High-Tech Approach to HVAC, Security and Fire Systems



Alfred I. duPont Hospital for Children, located in Wilmington, Delaware selected Tri-M Building Automation Systems to provide a state of the art building controls environment that includes HVAC, Access Control, CCTV and Fire Alarm. All systems integrated to provide the highest level of safety and operational efficiency. The new project replaces the existing 20 year old Honeywell system.

Since its founding in 1940, the Alfred I. duPont Hospital for Children has served thousands of children from across the country and around the world. The hospital is a division of Nemours, which operates one of the nation's largest subspecialty group practices devoted to pediatric patient care, teaching, and research. Located just outside of Wilmington, Delaware, on 300 acres of parkland, the hospital offers a remarkably beautiful and tranquil setting in which to heal.

Originally founded as an orthopedic facility, it is now a 180-bed hospital that offers all the specialties of pediatric medicine, surgery, and dentistry in a spacious, comfortable, and family-focused facility. Children from birth through age 17 with acute, chronic, and complex health problems benefit from the threefold mission established by our founders - excellence in patient care, education, and research.

Tri-M BAS provided the systems integration around Andover Controls Continuum Building Automation System. The system integrates all aspects of the hospitals critical environmental conditions at the same time controlling the physical security of the buildings. As a part of the new system Tri-M replaced the old fire system with Edwards EST, fully integrating all alarm points where the Andover system automatically manages the air intake in zones affected by a fire emergency.



PROJECT AT A GLANCE:

Project Type:

HVAC & Security

Project Name:

Alfred I. duPont Hospital for Children

Location:

Wilmington, Delaware

Market Segment:

Health Care

Number Of Buildings:

3

Total Area:

855,000+ sq.ft.

Equipment Installed:

114 Air Handling Units

94 pt Chiller Plant

12 Heat Exchangers

1057 Dual Duct Terminals

125 Card Readers

Network:

Fiber optics dedicated Ethernet

LAN with wireless Ethernet LAN extension (HVAC)

Separate security platform (TCP/IP protocol)

Applications:

Temperature and humidity control

Utility monitoring and reporting

Lighting control

CCTV integration

Door monitoring and control

Visitor processing

Third-Party Equipment and/or Drivers:

Secondary annunciation capabilities to Edwards fire alarm system and Air intake control based on Fire zone alarms

CCTV integration

Number of Controlled Doors:

90

Number of Cardholders:

6,000

Total System Points:

5,000+ (HVAC) and (security)

Total System: Investment:

\$5.5+ million

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