

CASE STUDY

# St. Vincent's Hospital

## Entellisys™ low-voltage switchgear



St. Vincent's, the longest-serving hospital in Birmingham, is a not-for-profit hospital that has been dedicated to the betterment of health in Birmingham for more than a century. Founded by the Daughters of Charity of St. Vincent De Paul in 1898, this Catholic health care facility is a member of Ascension Health.

### End user

St. Vincent's Hospital  
Birmingham, AL

### Purchaser/installer

Marathon Electrical Contractors, Inc.  
Birmingham, AL

### Project description

The six-story South Tower's ground floor will serve as the hospital's new, larger Emergency Department, offering patients easier access. The 90-bed patient tower will measure 210,000 square feet. The South Tower opened December 2006.

### Customer needs

The customer wanted a system that met OSHA requirements, provided protection for arc flash, and offered truly remote monitoring and control to keep operators away from live gear and to reduce downtime. Selectivity and mitigating any type of liability were other customer requirements that needed to be addressed.

### Solution

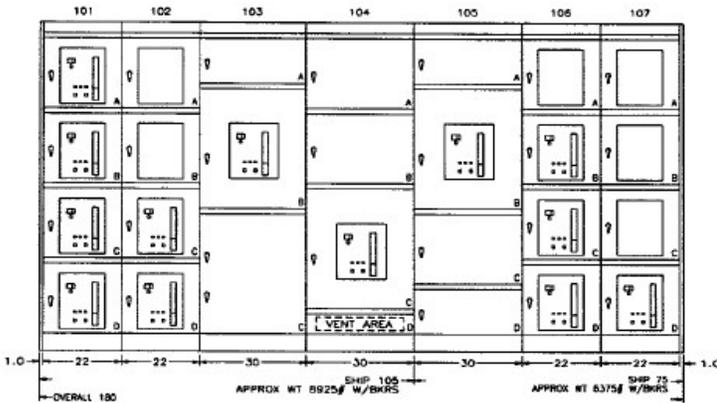
ABB provided the Entellisys low-voltage switchgear system. It was the only solution available to meet all the needs identified by the customer. A Near-Gear Human Machine Interface (HMI) allows operators to work away from live equipment. The system also includes bus differential and dynamic zone selective interlocking to help increase the overall safety of the system.

The HMI has built-in system diagnostic capabilities that include event log, alarms and waveform capture to easily understand the cause and correct any fault quickly with minimal system downtime.

**Customer testimonial**

“One of our major concerns is defined in the NFPA 70 and National Electric Code, which warn us about arc flash,” says Tommy Godwin, Senior Project Manager with Marathon Electrical Contractors, Inc. “Entellisys is the only low-voltage switchgear on the market that I’ve seen that allows remote operation of the breakers — outside of the arc flash zone. The remote function features such as Near-Gear HMI and Remote HMI software allow the operator to watch breakers without needing additional maintenance personnel.”

Godwin continues, “Entellisys is a fairly easy board to install. All I’ve heard are real good reports from electricians on the job. They love it and we’ve had no problems. It takes a lot of guesswork out for the electrician on the job. ABB always has my back. Whenever I go into a big job I want ABB with me.”



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