

SULLIVAN ASSOCIATES

Typical Project Descriptions

Global Processing Services Organization

Rochelle Park, New Jersey

High-tech Data Center

Sullivan Associates worked with the facility owner to furnish and install a sophisticated monitoring system for critical electrical and mechanical components, early detection and advance warning aid in preventing imminent danger.

Scope and Requirements

- Integrate sensors and relays to monitor chiller plant, air handlers, floor temperatures, generators, UPS and circuit breakers.
- Improve response time to emergency conditions.
- Collect trending data of equipment for predictive maintenance.
- Allow for expansion to institute emergency mechanical and electrical sequences.
- Provide central monitoring and alarm system to page off-site personnel and warn of problems.

Project Statistics

- Two-story, 65,000 square-foot, critical data center.
- 600 tons, three chillers with cooling tower plant.
- Three critical air-handling units.
- 4,000 amps electrical switchgear.
- Three, 750 kw turbine generators.
- One 1250 kw diesel generator.

Control System

- Automated Logic System 20/20 - 200 points

Outcome and Results

- Thermographic representation continuously displays the current temperature conditions throughout the facility at a glance.
- On-site and off-site personnel now made immediately aware of potential problems.
- History of equipment operation is being developed for evaluation.
- Ability to upgrade readily to emergency sequence initiation.

