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Integrated Builders completes project for Fortune 500 firm

November 17, 2009 - Construction Design & Engineering

Integrated Builders, a construction management, design-build and general contracting firm concentrating on suburban Boston market in the corporate, data centers, laboratory, retail and manufacturing markets, announced today that it has completed electrical and mechanical upgrades for a Fortune 500 technology company in Mass.

"We are pleased to have been the construction manager for this project," said Jay Dacey, president of Integrated Bldrs. "We enjoyed working with this client and all the other project teams involved in this project."

The project at the firm's facility, whose location was not disclosed because of security reasons, consisted of electrical and mechanical upgrades to existing systems to accommodate the existing data center plant. Many of today's data centers are running out of power and cooling capability due to new IT equipment demands. Electrical upgrades included a new 2500 KVA Pad Mount Transformer and a Siemens 4000 AMP 480v switchboard with distribution through four Siemens 480v switchboards. Distribution to the data center was made through four 500 kw Eaton UPS systems and eight 300 kva Cyberex PDU's. All power systems are backed up with a 2500 kw Caterpillar generator.

Mechanical upgrades include three, 200-ton chillers with glycol, 3 primary pumps, and 3 secondary pumps as well as the mechanical room. Distribution for the new chilled water in the data center was through 22 APC In Row Coils and five 40 ton Liebert systems. Two 13,500 cfm air handlers were used to cool the electric room All DC controls were provided by JCI.

The project included some closely coordinated efforts including running all new chilled water, make up water, drains, conduits and feeders under a raised floor in the existing operating data center.

The electrical feeders into the building, out to the generator, and under the electric room floor required interior excavation and the layering of the different conduits. All of this work was done next to and under occupied work areas.

The site portion of the project included 2500 lf of trench excavation for the new primary electrical feeders, a new pad area for the chillers and generator, and the relocation of the building water line to accommodate this pad. The existing 2500 kva utility transformer feeding the data center was also put on the new NGRID switch. All the preliminary work for this done in advance of the one day shutdown required to do this work. The data center was kept up and running with the existing generator and plant.

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