



## IBM NCEP Phase IV



J.E. Richards Electric, Inc. provided electrical services, including skilled electrical installation and material, for a major infrastructure upgrade to accommodate a new processing center for NCEP.

Scope of work included receiving and installing two, 1,000kW generators rated at 480 VAC with associated paralleling switchgear two, 1,500kVA substations (13.2kV primary/480 VAC secondary), two, 500kVA UPS units with bypass, ten static transfer switches (STS), and two power distribution units (PDU)

Work also included power distribution with bus duct (800 Amp and 1600 Amp) from the generators to the new substation, then from the substation to the new processing center.

The existing infrastructure made the new routing of conduit and bus duct complex. The medium voltage power supply involved the installation of four, 6" rigid conduit from the existing substation in the basement to the new substation on the first level.

All work was completed during normal hours of operation with little disruption to existing operations, including an operating cafeteria and data center. Most of the conduit and bus duct was installed through the kitchen area and main building lobby.

All work was received, installed, tested, and commissioned in a 14-week schedule.

**Market:**

High Tech & Life Science

**Date:**

2009

**Location:**

Gaithersburg, MD