

Healthcare Client

# Data Center Expansion / Renovation



As a result of a major utility power failure, due to a lightning strike, the main data center for a large regional healthcare system lost all normal and emergency back-up power. This failure affected all operations in every related facility within the organization. The failure also caused damage to the Uninterruptable Power Supply (UPS) system. SSOE was on-site late that evening and through the weekend, assisting in returning power to the critical systems. During the course of the evening, the emergency generator also failed, requiring the rental of a large trailer-mounted diesel generator.

It was determined that the existing data center lacked the emergency back-up systems required to continue seamless operations in the event of a prolonged outage. The result was approximately a \$5 million expansion and renovation project which included a new addition to house the equipment and the installation of redundant services, two emergency generators with paralleling switchgear, and two additional UPS systems.

SSOE's Data / Fire / Security (DFS) group ensured proper grounding of the existing IT equipment, along with the new UPS, and generator systems. The new UPS systems were sized to fit the clients current needs and can easily be expanded as the IT load increases. The UPS system and generators are monitored through the client's network and communicates when there is any trouble conditions within the entire emergency backup power system.

## value promise

The expandability of the UPS systems will save the client money and the trouble of replacing the entire system.

**location** Midwest USA

## highlights

Expansion and renovation

Two emergency generators with parallel switchgear

Two additional UPS systems

IT system grounding

UPS sizing