POWER PROFILE

Customer: Stony Brook Hospital*
Location: North Carolina
Market Segment: Mission Critical – Healthcare
Customer Business Issue: Emergency power for hospital facility
Solution: CAT® 100 kW XQ100 sound-attenuated generator, CAT® 1 mW XQ1000, CAT® 2 mW XQ2000

POWER NEED

In the summer of 2014, an evening fire started in the first floor power room of a local North Carolina hospital, causing a major power loss. Several area fire departments responded to the small fire, and unfortunately, while the flames were quickly extinguished, the lasting effects were not. The hospital's main power switch was badly damaged. While electricity was briefly restored by emergency generators, the air conditioning system remained down. Due to the nature of the facility, caring for hospitalized people in extreme heat was not an option. Hospital administrators made the decision to relocate nearly 70 patients to other area hospitals.

SOLUTION

The Carolina CAT Power Generation Rental team arrived quickly on-site at Stony Brook during the emergency phase to establish backup power for the hospital, enabling the facility to continue operating while the damaged equipment was repaired. A one megawatt XQ1000 CAT power module was initially utilized; as the extent of the damage became clearer, additional generators were brought in to keep the hospital powered up and running. Over the course of the next few weeks, a total of four power module generators were tied in, providing 5,100 kW of power, consuming 85,000 gallons of fuel, and using close to 25,000 feet of cable (nearly five miles in length). They were tended to by a team of 15 certified technicians, who alternated at the facility from tie-in stages to maintenance, keeping the systems under constant surveillance to ensure proper operation.

Several weeks later, Stony Brook received final approval from North Carolina state agencies to bring critical patients back into the hospital, running a chiller with the 1 mW unit and part of the hospital under active load.

Name changed to protect confidentiality

Carolina Power Systems **CAT**