

POWER SOLUTIONS

CASE STUDY



CONCORD REGIONAL AIRPORT

Location

Concord, North Carolina

Market

Municipal Airport

Unique Obstacle

Provide dependable backup power to keep aviation activities operational during a power outage

Units

250 kW Diesel, 100 kW Diesel,
45 kW LP Gas, Fueled Gensets

Solution

250 kW diesel genset for the terminal building, 100 kW diesel genset for the airport instrument landing system, and a 45 kW LP gas-fueled genset for the airports "fuel farm"

Contact

Readers who may have similar application challenges and would like to discuss this success are invited to call 1-844-ASK-GNRC (1-844-275-4672)

Generac Helps to Keep 'em Flying

Cabarrus County, North Carolina – an area of gently rolling hills northeast of Charlotte – is a rapidly growing region that is bustling with business activity. It's also renowned as a center of stock car racing activity, and is home to almost a dozen NASCAR racing teams, as well as the site of the world famous Lowe's Motor Speedway.

The Concord Regional Airport is a modern aviation facility serving the many business and recreation travelers arriving and departing the area. With its location along Interstate 85 just fifteen minutes northeast of Charlotte's central business district, the airport is in the heart of the highest-impact growth corridor in North Carolina. The facility averages over 5500 arrivals and departures per month, peaking at over 7000 during May in conjunction with major events at the Speedway.

The sprawling airport grounds encompass 750 acres, and include a 5500' all-weather runway, the main terminal building, numerous hangars, a fueling facility, a City of Concord fire station, and a business park. The latter is an attraction in its own right, since it boasts the headquarters of Roush Racing, one of the premier teams in the world of auto racing.

To keep aviation activities going in the event of a power outage, the Concord Regional Airport relies upon three standby

generators from Generac Power Systems. Each one supports a critical part of the airport operation, ready to supply backup power whenever necessary to keep the facility operational.

"Concord Regional Airport is open twenty-four hours a day, seven days a week," says Richard Lewis, Interim Aviation Director. "With the Generac Power Systems equipment, our terminal building, fuel operations, and airport lighting systems will operate even when others are not. Dependability is the key to our success, and Generac is part of that commitment to our customers."

The 18,000 square foot terminal building, built in 1994, is the nerve center of the airport operation. It includes a concourse for arriving and departing passengers, an operational center, and airport offices. Providing backup power for the terminal building is a 250 kilowatt diesel generator set with a 450 gallon fuel tank and Generac automatic transfer switch, with enough fuel to run for more than 20 hours at full load, if necessary.

Not far away is a 100 kilowatt diesel genset, dedicated to providing backup power for the airport's instrument landing system, navigational equipment, and runway lights. This generator ensures that the airport can continue handling

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The runway lights, instrument landing system and navigational equipment are backup up by this 100 kW unit.



incoming flights in the event of severe weather, when normal power may be interrupted.

The third Generac unit is a 45 kilowatt LP gas-fueled genset, which provides standby power for the airport's "fuel farm." In the event of an outage, this unit will keep the fueling facility fully operational until utility power is restored.

The Generac units were installed by Premium Power Systems of Concord in conjunction with a local electrical contractor. Premium Power is an authorized Generac dealer and is responsible for maintaining all of the City of Concord's generators, including those at the Concord Regional Airport.