



## CASE STUDY

### Marine Corps Base Quantico

PowerSecure's energy services customer selected us to provide turnkey replacement of six existing HVAC packaged units

# PROJECT BACKGROUND

PowerSecure's energy services customer selected us to provide turnkey replacement of six existing HVAC packaged units (RTUs) with new RTUs providing cooling to the Marine Corps Exchange (MCX) on the Quantico base. The MCX is a large facility with shops and restaurants that serves marines and their families. The existing RTUs were in poor condition resulting in high maintenance and energy costs.

The new HVAC units are nearly twice as energy efficient as the old equipment, offering significant energy savings. The RTUs range from 35 to 50 tons each and include curb adapters to match existing ductwork connections. The RTUs also include economizers, hail guards, new thermostats and were fully integrated into the existing building automation system.

PowerSecure was selected as a result of a competitive procurement process. Our turnkey installation included all equipment, labor, supervision, materials, transportation, storage and services necessary to perform high quality work.

# THE CHALLENGE

There was a small window of time to perform the replacement: 6 existing units had to be disconnected, lifted off the roof, replaced and started up in an 8-hour window.



# THE SOLUTION

Every movement of the lift had to be planned and executed perfectly from the unit arrival on flatbed and crane set-up to individual crew task.



# BENEFITS TO THE CUSTOMER

PowerSecure's energy efficiency solution provided:

- 1 Energy savings
- 2 Reduced maintenance costs
- 3 Improved building comfort and indoor air quality
- 4 Improved overall reliability