

CASE STUDY

Aviation

Cleveland Regional Jetport

Cleveland, TN

Due to increased demand and growth for aviation services in the Cleveland, TN area, the city needed to build a larger airport and one that could accommodate larger jet aircraft. Puckett Engineering provided design and construction phases services for airfield lighting, navigational aids, and fuel farm for the airport's 5,500 foot runway and full length taxiway. The Cleveland Regional Jetport became the first TN airport with all-LED runway and taxiway lighting. Puckett Engineering's solutions for the new airport included:

- Runway and taxiway edge lighting utilizing the latest in LED technology.
- Runway and taxiway illuminated signage utilizing the latest in LED technology.
- LED primary and supplemental wind cones.
- Rotating beacon and beacon tower, including lightning protection.
- Runway End Identification Lights (REILs).
- Precision Approach Path Indicator (PAPI) lighting.
- Emergency generator for providing backup power for the airfield lighting, the airport's terminal building, and fuel farm.
- Electrical service and power distribution, including constant current regulators for supplying the airfield lighting systems and fuel farm.
- Surge protection for power system and data and control circuits.
- Airfield Lighting Control Panel in the terminal building.
- Radio controller for remote control of the airfield lighting by pilots.
- Identification of all electrical equipment in order to readily identify equipment and know where they feed from.
- Reinforced steel electrical vault building for housing the power distribution and control equipment for the airfield lighting.
- Lightning protection and grounding for the vault building and airfield lighting circuits.



PROBLEM OR NEED

New Regional Airport.

PUCKETT SOLUTIONS

LED Energy Efficient Lighting.

Emergency Generator for Backup Power.

Lightning and Surge Protection

Reinforced Electrical Vault Building



Year Completed: 2013

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