

PROJECT CASE STUDY

Federal Aviation Administration



ENVOCORE SOLUTIONS

The team performed turnkey lighting upgrades for the interior and exterior lighting at all 21 sites. All products used met FAA RFI/EMI limits. Products included new fixtures for the exterior lighting, and a mixture of Type C TLEDs, LED door frame retrofit kits, LED can light kits, and screw in LED lamps. In addition, in some areas, Retro-Tech custom field tuned TLED and door kits to light levels requested by building occupants. Lastly, retro-Tech identified and replaced thousands of battery back ups since the existing batteries were not compatible with the new LED technology.

THE RESULTS

The energy and maintenance savings for this project are substantial and contributing to the overall success of the performance contract between the ESCO and the FAA. In total, we upgraded over 12,775 fixtures, replaced over 1,040 fixtures and installed over 1,920 lighting control devices without impacting the mission of the FAA in terms of electrical or most importantly, operational interference.

PROJECT BACKGROUND

Retro-Tech, a division of Envocore, and another firm were selected to survey and design upgrades at 21 sites, with each firm handling about 50% of the total square footage. Following the surveys and subsequent competition, we were selected to implement the project at all 21 sites. The largest challenge was identifying products that did not exceed FAA limits for radio frequency interference (RFI) and electromagnetic interference (EMI). Retro-Tech undertook an extensive testing effort for all products specified.

ABOUT THE FAA

Retro-Tech Systems, a division of Envocore, worked with an ESCO to implement a large and complex lighting project for the Federal Aviation Administration. This project involved 21 sites scattered from the southwest and midwest to the southeast. The facilities were both in route air traffic control facilities and airport-based traffic controls.

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