

## Reliability Essential in Newark International Airport Parking Garage Upgrade



As part of a \$710-million terminal redevelopment program, the ceilings in the under-roadway parking areas at Terminals A and B at Newark International Airport are being replaced. The terminals were originally built in 1973, and over the decades the parking areas had become dingy and dark. “Old-style T12 recessed lighting systems with 40-watt bulbs and magnetic ballasts were state-of-the-art 30 years ago,” said Frank Stein, president of Voigt Lighting Industries, which was awarded the contract to supply the lighting systems for the renovation. “Today, we are installing T8 systems with the F25T8 lamps and electronic ballasts which provide significant improvement in brightness levels plus large energy savings.”

Stein said a unique fixture design is one of the reasons for the project’s success. “The airport is installing a

modern, European-style metal ceiling with visible lamps in the garage spaces. This design provides better light by utilizing the full output of the lamp. The difference in the amount of light projected is dramatic. The resulting brightness provides a greater feeling of comfort and safety for people using these structures.”

The lighting is being replaced as part of the larger reconstruction of the ceilings in the parking areas. Building codes in the early 1970s called for asbestos fire protection, so the renovation required removing the old ceilings, abating the asbestos, and installing new ceilings, sprinkler systems, fire proofing and lighting fixtures.

The Newark Airport consists of three terminals, A, B and C, each offering parking on an hourly and daily basis.

### *In Brief:*

**Project:**

Newark International Airport

**Location:**

Newark, N.J.

**Products Used:**

Triad<sup>®</sup> low profile ballasts (B232I277RH-A)

**Number Installed:**

More than 1,700

**For more information about:  
Voigt Lighting Industries Inc.**

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Terminals A and B are being improved through upgrades to roadways, parking facilities, and airport administration buildings. The parking area renovations to Terminal A are scheduled to be complete in 2002, and the contract to upgrade the parking structures at Terminal B will be completed in 2003.

Terminal C is being expanded and a new parking structure is being added through the \$800-million Continental Airlines Global Gateway Project. Supported by hundreds of millions of dollars of additional infrastructure investment from the Port Authority of New York and New Jersey, which owns and operates the airport, Continental Airlines is adding a 325,000-square-foot concourse and an immigration facility capable of processing 1,500 passengers per hour.

Voigt Lighting Industries manufactured the lighting fixtures and selected Universal Lighting Technologies to provide the ballasts. "When we make



*Universal Lighting's low-profile RH electronic ballasts feature a small package and cross section, providing fixture design flexibility.*

a decision for a project of this scope, there are two overriding considerations," said Stein. "The technology provided by the ballast is the first concern. We install the very best product for our customer, and all of the components must work reliably within the fixture design. We also need

to have the components approved by the engineers at the Port Authority, so supplying quality, reputable parts is essential to completing the contract."

Stein said he chose Universal Lighting Technologies' Triad® low profile ballasts because of their size and quality. The parking garages are semi-outdoor structures that are covered, but not enclosed. With temperatures that can range from freezing in the winter to hot and humid in the summer, it was mandatory that the ballasts have 0° starting capability.

Stein said an additional criterion in choosing a supplier is the responsiveness of the company supplying the ballasts, and he added that the service provided by Universal Lighting Technologies weighed in his decision. "The products we needed were available and Universal Lighting Technologies supported our efforts," he said.

The refurbishment of Terminal A required more than 1,700 lighting fixtures, using one Triad® low profile ballast (B2321277RH-A) for each two-lamp fixture. The Triad low profile ballasts optimize T8 system technology by providing greater efficiency and dramatic energy savings within a lightweight, space-saving design. All models have a height of just 1.18" and feature parallel lamp operation—when one lamp fails, the others remain at full light level.

"People will appreciate the difference in the light levels in the parking areas," said Stein. "Newark Airport serves 35 million passengers a year. This project will benefit millions of travelers for many years to come."

## About Universal Lighting Technologies

Universal Lighting Technologies Inc. manufactures ballasts for all lighting applications. The company's full line of ballasts is designed for exceptional performance in lamps ranging from 5 to 2000 watts. These include magnetic, electronic, and compact fluorescent, high intensity discharge, sign and neon. As a major manufacturer of electrical equipment, Universal Lighting Technologies plays a lead role in setting industry standards for quality and energy efficiency. The company actively participates in trade associations and assists in the development of many standards through ANSI, NEMA and IESNA.

## Want to Know More?

Universal Lighting Technologies' ballasts are available through a nationwide network of several thousand electrical distributors and are also incorporated in the designs of leading OEM lighting fixture manufacturers. To learn more about the full line of Universal Lighting Technologies' ballasts or to request a catalog, call 1-800-BALLAST, fax your request to 615-316-5146, or visit the Web site at [www.universalballast.com](http://www.universalballast.com).



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