

## San Diego Airport Runway Resurfacing & Light Can Replacement

A HOCHTIEF Company

### Owner

San Diego County Regional Airport Authority

### Location

San Diego, CA

### Value

\$12,500,000

### Market

Airports – Pavement Rehabilitation

### Start - Completion Dates

7/2006 – 1/2007

- Runway rehabilitation
- 188 centerline light cans and 98 touchdown zone lights replaced
- Rapid strength concrete batched in volumetric mixers
- All work performed at night during short work windows

## Project Description

Flatiron used a fleet of volumetric mixers to batch and place rapid strength concrete for runway resurfacing and light can replacement at the San Diego International Airport. Each light can required less than a yard of concrete, but the concrete needed to adequately cure and be ready for traffic each morning. Flatiron replaced 188 centerline light cans and 98 touchdown zone lights. Using a combination of volumetric mixers and rapid strength concrete, Flatiron safely returned the runway over for use on time each morning.

Batching and placing rapid strength concrete required not only the ability to achieve required production rates, but also the ability to control quality. Contractors that batch and place RSC must understand the chemistry of and be able to tightly control the mix design to ensure the concrete adequately strengthens and maintains its integrity. Flatiron has the necessary experience and knowledge to develop and modify mix designs for specific circumstances.

Flatiron took into consideration climate variables, like humidity and temperature, as well the size of project, type of repair required, and other aspects that could have an affect on the integrity of the RSC. For this project, the ability to batch small amounts of RSC to a very specific mix design enabled the Airport Authority to reopen the area in a few hours without compromising the operation or safety of the runway.

Iraj Ghaemi, the Director of the Facilities Development Department at the San Diego County Regional Airport Authority said, “We opened the airport on time every morning and never experienced any flight delays thanks to the RSC reaching its structural strength.”

### Company Role

Flatiron was the prime contractor for this project.

### Awards

- American Society of Civil Engineers San Diego Section – Outstanding Civil Engineering Project (Airport and Port Facilities), 2006
- Associated General Contractors San Diego Chapter – Build San Diego Award of Merit, 2007

