PROJECT BRIEF

CAMP PENDLETON, MARINE CORPS AIR STATION

Project Type:
Government (Military Airport)

Application:
Replacing field can lights on the runway

Location:
North San Diego County, CA

Project Dates:
December 2017 – January 2018

Project Size:
85 cubic yards

Project Owner:
Marine Corps

Engineer:
RQ Construction, Bergelectric

Products:
Concrete Mix, FLOW Control®, SET Control®

The runway lights on the airfield at Camp Pendleton needed to be replaced, and spec requirements called for a product that would be close to 5,000 psi in a 24-48 hour timeframe. The contractors ran tests on the Concrete Mix, using 4.5 quarts of water per bag. After they poured their cylinders, they were immediately placed in a car and taken to a lab for testing.

Break results ranged from 3,100 to 4,100 psi in 24-48 hours. CTS suggested lowering the mix water, using FLOW and SET Control and letting the cylinders sit for at least an hour before transporting them. This resulted in the demonstration of the benefits of the SET and FLOW when the break test came back at 7900 at the 24-hour mark. The contractors then approved the use of Concrete Mix for the replacement of 26 lights.

Initially, the goal was to complete two to three can lights per day using a mortar mixer, but after CTS showed them how to mix two bags at a time in a 15-gallon mixing barrel with a hand drill, the project schedule went from two months down to three weeks.

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