



## THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

The World Trade Center

FSG Upgrades the Lighting at the WTC Oculus

### Owner

The Port Authority of NY and NJ

### Contract Type

Lighting and Controls Upgrade

### General Contractor

Constellation Energy

### Electrical Contractor

Hatzel & Buehler

### Energy Savings

\$715,000 a year

### Number of Fixtures Replaced

13,000

### CHALLENGE

World Trade Center is a terminal station on the PATH system. It is located in the World Trade Center complex, within the Financial District neighborhood of Manhattan in New York City. The \$4 billion Oculus station house, designed by Santiago Calatrava, consists of white ribs that interlock high above the ground. FSG has designed and is implementing a lighting upgrade for more than 13,000 lighting fixtures to high-efficient LED technology, which reduces energy consumption and increases the life expectancy of the lamps. WTC sites to receive the upgrades include: Vehicle Security Center, Central Chiller Plant, PATH fare and platform area, Transportation Hub and back of house spaces.

### SOLUTION

Lighting throughout the facilities will be converted from fluorescent and HID to LED. Additionally, the "up lighting" in the Oculus, located between columns in the 800,000 square-foot facility, will be replaced with new LED RGB theatrical lighting, which will include DMX lighting controls that will enable WTC staff to display any desired color at their discretion. FSG has begun construction, and the project is expected to be completed by 2020.

### RESULT

"This project couples traditional lighting improvements with an innovative solution unique to the World Trade Center," said Michael D. Smith, senior vice president, Distributed Energy, for Constellation. "These updates will help the Port Authority save money and reduce its carbon footprint while also providing new vibrant display lighting for the Oculus."

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