

PROJECT CASE STUDY

CITGO PETROLEUM ULSD HYDROTREATER UNIT 590

As Citgo Petroleum continues to conform to revised emissions standards, implementation of the ultra-low sulfur diesel project at the Lemont, Illinois facility was eminent. Since the newer emissions standards are dependent upon cleaner fuel, the move to lower sulfur content is expected to allow the application of newer emissions controls technologies, many of which have been in place in automobiles since 2007. This should substantially lower emissions of particulate matter from diesel engines into the atmosphere, in the end saving our environment.

That foresight from Citgo prompted them to rekindle a long standing relationship with Mustang Engineering in Houston, Texas. Citgo faced several challenges, though – the facility was mature, real estate was limited, and a complex electrical system was needed to support the ultra-low sulfur diesel application.

In addition to these challenges, Citgo placed yet another obstacle in front of Mustang – procure the most reliable, yet economical solution system available. Because of prior experience, Mustang chose Lectrus to provide the turnkey project. This included not only the 2-story stainless steel electrical equipment center, but also all stairs, platforms, and electrical equipment internal to the building which encompassed:

- 480V, 5KV and 15KV switchgear
- 480V and 5KV motor control centers
- 480V and 5KV indoor and outdoor bus duct
- 15KV load interrupter switch
- Hazardous area HVAC system with ductwork
- 30KVA UPS
- Complete battery system
- Marshalling panels and relay cabinets
- 15,000 interconnect wiring points

Coordination was key between Lectrus' suppliers, Mustang and Citgo in order for this project to come to fruition. Lectrus engaged some of our most reliable suppliers to finish the project in a timely and cost efficient manner.

For more information about our company, products and services, or to request a proposal for your next project, please visit lectrus.com or send an e-mail to sales@lectrus.com.



PROJECT PROFILE

// PROJECT //

Citgo Petroleum ULSD Hydrotreater Unit 590

// LOCATION //

Lemont, Illinois

// MARKET SEGMENT //

Oil & Gas

// EQUIPMENT PROTECTED //

Low and medium voltage motor control centers and switchgear, low and medium voltage bus duct, UPS system, marshalling panels, relay panels

// PRODUCT //

Equipment Center Stainless Steel

// ENCLOSURE SIZE //

16' X 65' (Two-Story)

// DATE SHIPPED //

June 2009

// CUSTOMER //

Mustang Engineering, Houston, TX

// OWNER //

Citgo Petroleum

lectrus

ENGINEERED TO SPEC. BUILT TO LAST.

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