



CITY OF NEW ORLEANS STREET LIGHT MANAGEMENT

Project No. 2011-01

Location: New Orleans, LA

Contract Value: \$6,797,133

Completion Date: Ongoing

Owner/POC:

City of New Orleans
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Project Specific Disciplines

- Project Management
- Energy Efficiency Design
- Construction Inspection
- Construction Management
- QA/QC Management
- LED Conversions

The City of New Orleans Department of Public Works has contracted Royal to manage street light operations and to oversee the city selected maintenance contractor All Star Electric, Inc. The project scope of work calls for Royal to perform the following:

- Manage a work order system, to track and assign all work to All Star Electric
- Manage the intake of complaints and outage reports
- Coordinate third party activities affecting street light repair and operations
- Perform weekly patrols of all street lights to identify outages and verify repairs
- Complete a day-time survey of street lighting system
- Review and recommend streetlight repair contractor estimates for non-routine maintenance work
- Monitor and review non-routine maintenance repairs
- Maintain and update GIS based maps of the individual street lights and underground circuits
- Verify of All Star Electric invoices to the city
- Control the inventory of city owned material stored by All Star Electric.

In addition to its contractual obligations, Royal is developing a state of the art street light management software named PackWeb. Instead of using an antiquated paper driven work order system, PackWeb introduces an enhanced GPS based, real time work order tracking system. It will provide real time results from maintenance crews to the call center and most importantly to the client. The client will have the ability to access the work order system at any time

through a web- based interface, giving them instant information from the field. PackWeb also allows for proactive maintenance. For years, the City of New Orleans has used a reactive street light maintenance system relying on patrols of the city recognizing spot outages. With the new system, PackWeb will be able to recognize which lights are nearing the end of the life span and initiate a work order for the bulb to be changed before it ever goes out.

Using the Daytime Patrol as a data source, the team also offers to the City a Lighting Master Plan, which provides the City a detailed report of the current state of street lighting. Royal provides a luxometric analysis of every lighted area in the city to determine the lighting needs of the city. It determines the lighting levels and which areas that are not lighted enough or areas that are light polluted.

The Master Plan effort also included an analysis and determination of system suitability for an energy efficient upgrade to LED lighting to realize longer life span, less maintenance, and less wattage usage. In April 2014, \$14.7MM was authorized for a one-time Energy Smart funds conversion of old street lights on the east bank of Orleans Parish, to the energy-efficient LED fixtures. The Royal Streetlight Management Team was enlisted to provide project management and construction engineering and inspection services for these conversions, in addition to ongoing streetlight maintenance services.