**Scope of Work:**

The Contractor shall provide all labor and materials in order to remove existing strobe obstruction light system & controllers and remove two existing Bogner antennas with associated mounting hardware and coaxial feedline for the Louisiana Department of Public Safety (DPS). The Contractor shall then install a new led dual lighting system & controller.

**Site Location:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SITE NAME** | **SITE HIGHT** | **SITE ADDRESS** | **SITE GPS LOCATION** | **TOWER SUPPORT TYPE** |
| Homer | 400’ | 24919 La. Hwy 2,Homer LA 71040 | 32-48-36 N / 93-04-00 W | Guyed |

 **Site Visit-Contact Information:**

 Paul Dupuis

 LSP MCS

 5903 Coliseum Blvd.

 Alexandria, LA 71301

 (225) 925-6036

**Specifications:**

* The Contractor shall remove two Bogner 800Mhz antennas with associated mounting brackets, one at 400’ the other at 380’.
* The Contractor shall remove the two coaxial feedlines associated with the two Bogner antennas.
* The Contractor shall remove existing strobes, beacons, obstruction lights and all tower light hardware from the tower structure.
* The Contractor shall replace Type E-2/3DB Controller located inside communications shelter. The Contractor shall provide all necessary electrical and grounding connections to controller. International Tower Lighting - ILS-3600-0IR or Equivalent

**Specify Tower Lighting Bidding**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* The Contractor shall install three LED medium intensity beacons, Type L-864/865 dual red/white FAA full kit in place of existing strobe lights. To include braided shield control cable interface and hardware.
* All tower light control cables shall be securely fastened to cable trays and tower structure with proper secure cable ties by the Contractor.
* The Contractor shall replace existing photocell sensor fixture with new NEMA twist lock plug type fixture, if applicable.
* All strobes / beacons, obstruction lights and controller unit shall be properly grounded to R56 standards by the Contractor.
* All alarm outputs shall be reconnected to DPS’s alarm controller.
	+ Tower lights in night mode=DI#4 normal open
	+ Tower light summary alarm=DI#5 normal open
* All exterior electrical connections shall be properly sealed and weather proofed by the Contractor.

**International Tower Lighting, Model ILS-3600-OIR Dual Red/White System specifications:**

Standards: ETL Certified AC150/5345-43J,

Type L-865(L)/L-864(L)

Temperature: -40°C to +55°C

Humidity: Less than 95%, non-condensing Day Intensity: 20,000 ±25% effective candelas

Night Intensity: 2,000 ±25% effective candelas, Red 264 mW/sr (min), 800-900nm, Infrared

Beam Pattern: 360º Horizontal, ≥3º Vertical

Flash Rate: 40FPM Day, 40FPM White Night, 20 or 30FPM Red Night. Side Lights: 0 to 4 Type L-810(L) LED, steady burning or flashing.

Flash Head: Height: 14.7” (37.4cm), Diameter: 13” (33cm), 33lbs (15Kg)

Power Supply: 23.63” (60.0cm) x 16.57” (42cm) x 9.76” (24.8cm), 40lbs (18.1Kg) Suppression: 70 Joule, 275V, Input Power, PEC, Side Lights

45 Joule, 275V, All Dry-Contact Alarms Input Power: 120 or 240 Vac, 50/60 Hz

Day: 95W

White Night: 35W White/IR Night: 40W Red Night: 25W Red/IR Night: 50W

**General Terms and Conditions:**

* The Contractor shall provide temporary working tower lights during installation of new system.
* The Contractor shall provide photos of all light fixture interior wiring prior to completion.
* All work shall be performed in accordance with FCC/FAA regulations.
* Bids shall include all mileage, transportation, and services performed within contract.
* The obstruction light system shall meet or exceed the features and specifications of International Tower Lighting, Model ILS-3600-OIR Dual LED Lighting system, including 5 year warranty. Dry contacts shall be available for: white alarm, red alarm, photocell alarm, day/night mode and power failure alarm.
* All materials removed from tower and building shall be disposed of by DPS personnel.
* All work performed (itemized check lists), and service shall be documented and conveyed to DPS for record-keeping by the Contractor.
* Work identified outside of project shall be reported to DPS for subsequent action by the Contractor.

**Light Controller Photo:**

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**Antenna Photo:**

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