

## ALABAMA EDUCATIONAL TELEVISION COMMISSION

### BID SPECIFICATIONS FOR Installation of STROBE TOWER LIGHTING AT WGIQ, Texasville

**1.0** Alabama Educational Television Commission is requesting bids for labor to install materials needed to change the tower lighting at the WGIQ-TV tower at Louisville/Texasville, Alabama from incandescent to strobe. The tower is currently painted with red incandescent lighting used at night. AETC desires to change to high-intensity white strobes during the daylight hours with red strobes during night-time hours as required by the Federal Aviation Administration. This bid request is for labor to install supplied materials needed for one hundred percent completion of Strobe Light installation. Current conduit and light fixtures are to be removed from the tower with successful bidder to dispose of old conduit. Successful bidder **shall** provide all materials (metal banding or clamps) for conduit attachments as required for attaching conduit to tower. No ice shields will be used on this tower. Upon installation of supplied fixtures and controls as per manufacture's specifications, the tower lighting will meet or exceed all FAA/FCC requirements. Lighting equipment specifications, already purchased to be installed, are listed in 3.0 below.

#### **2.0 TOWER DESCRIPTION**

- 2.1 The tower is a Stainless Tower with a Five foot face width.
- 2.2 The height of the tower itself is seven hundred twenty seven (727) feet.
- 2.3 The antenna on the tower is a Side Mount Dielectric TFU-36DSC-R.
- 2.4 The top plate of the antenna is just below the tower top.
- 2.5 The total height of the tower with antenna is 727 feet including lighting fixture and ground rods.

#### **3.0 LIGHTING EQUIPMENT SPECIFICATIONS**

- 3.1 Lights shall be a high intensity dual strobe system with white light during daytime and red during night operation.
- 3.2 The strobe light voltage shall be 480 volts 3 phase.
- 3.3 Side lights shall be 120VAC LED fixtures.
- 3.4 A ground mounted controller shall be supplied which operates with an input voltage of 120V 60Hz.
- 3.5 The unit will be supplied with a photocell with minimum 50 foot pigtail.
- 3.6 A conduit/wire kit shall be supplied which shall include swing mount brackets, red beacon brackets, flat bar brackets, side marker brackets, all wire, conduit, junction/support boxes, top beacon interconnect cable and custom drawings.
- 3.7 Unit must be supplied with a handheld programmer kit for programming, testing and troubleshooting power converters.

- 3.8 Unit will be supplied with a software program for remote diagnostics and resetting via a remote computer.
- 3.9 A lightning array to extend above the top lighting fixture shall be included.

#### **4.0 Site Visit**

- 4.1 Site visit is not required
- 4.2 Should anyone request a site visit an APT engineer will accommodate.
- 4.3 Tower site address is WGIQ-TV, 115 TV Tower Road, Clayton, Alabama 36016.
- 4.4 AETC must be notified a minimum of 24 hours prior to a requested site visit as this is an un-attended site. Contact should be made with Windell Wood, Director of Engineering, at 205-876-6668 or Charlie Grantham, Chief Operating Officer, at 205-572-2960 to schedule a site visit.
- 4.5 All correspondence by mail and billing should be addressed to: Charles Grantham, AETC, 2112 11<sup>th</sup> Avenue South, Suite 400, Birmingham, AL 35205.