

ABG Arkansas Licenses, LLC.

KHTE (FM)

Auxiliary antenna system

RF Hazard Measurement Report

JUNE 2007

EME Communications has been retained by ABG Arkansas Licenses, LLC. to perform real time measurements to ascertain the level of compliance for the new KHTE-FM auxiliary antenna site and to show Maximum Permissible Exposure Levels for occupational controlled and non-controlled access to this tower site and nearby surroundings.

The facility is located atop a building in the heavily populated downtown Little Rock area. The effective radiated power and antenna HAGL of KHTE-FM auxiliary antenna system is as follows.

KHTE-FM ERP = 18 watts – Antenna COR HAGL = 172 meters (564 feet)

Measurements were conducted employing a Narda EMR-20C Electromagnetic Radiation Meter, serial number AZ-0098 and a Narda Electric Field Probe Type 8.3 serial number BC-9997. This instrument measures E field intensity over a frequency range of 100 KHz to 3.0 GHz using the isotropic probe Minimum detectable power levels are 0001 $\mu\text{W}/\text{cm}^2$. Both instrument components were last calibrated on June 4, 2007 in compliance with ISO 9001 and ISO 10012-1 standards.

The KHTE-FM auxiliary transmitter was checked and found to be operating at 100 percent power.

Measurements were made in both sample mode and peak mode within the towers surrounding environment. Measurements were made slowly sweeping the probe from ground level to a height of 2 meters above ground level. These measurements were conducted between the hours of 11:00 PM and 12:00 Midnight on June 16, 2007. Since the building top is heavily populated with different wireless transmitters, the first reading was with the KHTE-FM transmitter off. This measurement was to determine the amount the KHTE-FM transmitting antenna contributed to the RF environment.

The results of the readings are as follows:

Transmitter Off:

Inside the equipment penthouse: .0144 $\mu\text{W}/\text{cm}^2$ or .144 mw/cm^2 .

Outside the penthouse on the building rooftop approximately 15 feet below most mounted antenna systems: .0270 $\mu\text{W}/\text{cm}^2$ or .270 mw/cm^2 .

Transmitter On:

With the KHTE-FM auxiliary antenna operating at 100 percent power output:
.0573 $\mu\text{W}/\text{cm}^2$ or .573 mw/cm^2 .

With this system operating as set forth in the underlying construction permit, KHTS-FM's RF contribution to the surrounding environment is .0303 $\mu\text{W}/\text{cm}^2$ or .303 mw/cm^2 .

Since access to the building equipment room and building rooftop is aggressively restricted with access codes to gain entry and posters are already posted on all access doors warning of the possible hazards, it is believed this action is in full compliance with FCC and ANSI standards.

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