

# **Engineering Exhibit**

## **KQXT (FM), San Antonio, TX (FID#11962)**

### **RF Radiation Compliance**

Although KQXT (FM) is not eligible to use the “RF Exposure Worksheet”, the facility does comply with the FCC established guidelines regarding exposure to RF electromagnetic fields as described in OET Bulletin 65 Edition 97-01. The alternate method for showing compliance is described below.

#### **Facilities:**

KQXT (FM) is licensed for 100kw ERP (H&V) and utilizes an 16 Bay Half Wave spaced antenna Model SHPX-16BC-SP-HW with a center of radiation of 210 meters above ground, mounted on a pole that is combined with two other stations, KZEP (FM) and KJXX (FM) on the same antenna. The pole is mounted above the Tower of the Americas building which has a restaurant and observation deck. No other radio or TV stations are located within 315 meters of the KQXT (FM) site.

#### **General Population / Uncontrolled Exposure:**

To determine the level of RF exposure, measurements were made on August 2<sup>nd</sup>, 2007 in all areas at the transmitter site and surrounding areas, whether or not they are accessible to the general public. A Narda survey meter model 8718B with an A8724D probe was utilized. The probe is calibrated in percent of limit for Occupational/Controlled Exposure for frequencies ranging from 300KHZ to 3.0 GHz. The “Max Hold” setting was used to record the highest levels measured. Measurements were made at 2 meters above the ground while walking the entire area at the site and in the adjacent areas out to a distance of 300 meters from the tower base. The maximum RF exposure level measured inside or outside this structure was 2.83% of the Occupational/Controlled Exposure limit, which occurred inside the observation deck below the tower roof. The highest maximum reading outside the tower building was 1.36% measured at a distance of 53 meters from the tower and drops off as the distance from the tower is increased. This is below the 20% limit for General Population/Uncontrolled Exposure. The roof door leading to the antennas is locked and RF radiation warning signs are conspicuously posted. Therefore, KQXT (FM) does comply with OET Bulletin 65 Edition 97-01 with regard to General Population/Uncontrolled Exposure.

## **Occupational/Controlled Exposure:**

Using the measurement methods described above, measurements were also taken inside the transmitter room. The maximum RF Exposure level measured was 2.1% of the Occupational/Controlled Exposure limit which occurred in front of the transmitter next to the transfer switch. Access to this room is limited by locked doors and RF radiation warning signs are also conspicuously posted on those doors. The roof door leading to the antennas is locked and proper RF radiation warning signs are conspicuously posted. Therefore, KQXT (FM) does comply with OET Bulletin 65 Edition 97-01 with regard to Occupational/Controlled Exposure.



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