

MINOR CHANGE APPLICATION
ENCORE BROADCASTING
OF SAN ANGELO I LIMITED PARTNERSHIP
KKCN (FM) RADIO STATION
CH 276C1 - 103.1 MHZ - 100.0 KW
BALLINGER, TEXAS
March 2006

EXHIBIT A

Radio Frequency Radiation Study

A study has been made to determine whether this proposal is in compliance with 47 C.F.R. §1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997 ("Bulletin"), regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby stations and utilizes the appropriate formulas contained in the Bulletin. This study considers all nearby contributing stations and utilizes the appropriate formulas contained in the OET Bulletin.³

The corrected KCN antenna system is mounted with its center of radiation 137.1 meters (449.8 feet) above the ground at the tower location and operates with an effective radiated power of 100.0 kilowatts in the horizontal and vertical planes (circularly polarized). The KKCN antenna system is an ERI rototiller style system (FCC/EPA Type #3). At 2.0 meters, the height of an average person above the ground at the base of the tower, the KKCN antenna system will contribute 0.0815 mw/cm².⁴ Based on exposure limitations for a controlled environment, 8.2% of the allowable limit is reached at 2.0 meters above the ground at the base of the tower. For

3) The contributions of the FM facilities were calculated using the FMModel program. The EPA dipole antenna was used for calculation purposes.

4) This level of field occurs at 135.0 meters out from the base of the tower and is considered worst case.

uncontrolled environments, 40.8% of the limit is reached at 2.0 meters above the ground at the base of the tower.

Since this level is below the 100% limit defined by the Commission, the corrected KKCEN facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, Encore will ensure warning signs are posted in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Encore will reduce the power of the proposed facility or cease operation, in cooperation and coordination with other tower users, as necessary, to protect persons having access to the site, tower or antenna from radio frequency radiation in excess of FCC guidelines.