

MODIFY BNPH-20041223ABI
CHANGE COMMUNITY OF LICENSE
AIREN BROADCASTING COMPANY
KZCC (FM) RADIO STATION
CH 238C3 - 95.5 MHZ - 5.0 KW
TRINIDAD, CALIFORNIA
May 2007

EXHIBIT B

Radio Frequency Assessment

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 contributing stations and utilizes the appropriate formulas contained in the OET Bulletin.¹

The proposed KZCC four bay, half wavelength spaced, antenna system will be mounted with its center of radiation 12.2 meters (40.0 feet) above the ground at the location and will operate with an effective radiated power of 5.0 kilowatts in the horizontal and vertical planes (circularly polarized). The KZCC antenna is an Electronics Research, Inc., rototiller style system (FCC/EPA Type #3). At 2.0 meters above the ground at the base of the pole, the height of an average person, the KZCC antenna system contributes 0.0804 mw/cm².² Based on exposure limitations for a controlled environment, 8.0% of the allowable limit is reached at 2.0 meters above the ground at the base of the pole. For uncontrolled environments, 40.2% of the ANSI limit is reached at 2.0 meters above the ground at the base of the pole.

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- 1) The contributions of the FM facilities were calculated using the FMModel program. A single bay EPA dipole antenna was used for calculation purposes. In cases where the number of bays of the antenna was known, this data was used in the FMModel program.
 - 2) This level of field occurs at 40.0 meters out from the base of the tower and is considered worst case.

Since these levels for controlled and uncontrolled environments are below the 100% limit defined by the Commission, the KZCC facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, ABC will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, ABC will reduce the power of the 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.