

EXHIBIT A

## ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of SAN ANTONIO COMMUNITY EDUCATIONAL TV, INC., licensee of KHCE(TV), San Antonio, Texas, in support of this further amendment to its DTV Application for Construction Permit BPEDT-20000428ACF. The purpose of the filing is to specify a directional antenna in order to reduce interference to the mutually exclusive maximization application of KAVU-DT, Channel 15 in Victoria, Texas, so that both applications can be granted. No change in maximum effective radiated power, site location or effective antenna height is proposed herein.

Antenna radiation pattern data appear as Exhibit B. Operating parameters for the proposed facility are provided in Exhibit C. Exhibit D is a map of the predicted service contours. An interference study is included as Exhibit E. Although no interference to any other user of the antenna farm is expected from the operation of KHCE-DT, if such should occur, the applicant will take whatever actions are necessary to correct the problem.

Since construction of a new tower is proposed herein, the FAA has been advised of this application, and have issued a Determination of No Hazard under Aeronautical Study Number 01-ASW-2036-OE. Subsequently, the proponent filed for FCC Antenna Structure Registration and was issued number 1228187.

We have studied the RF transmissions of this facility with regard to their environmental effect. Employing the methods set forth in *OET Bulletin No. 65* and considering the vertical pattern of the proposed Andrew antenna, we calculate maximum power density two

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meters above ground from the proposed facility to be  $0.00042 \text{ mw/cm}^2$ , at locations 78 meters northwest of the tower base. This value is but 0.1 percent of the  $0.32 \text{ mw/cm}^2$  reference at this frequency (428-488 MHz) for uncontrolled environments (*i.e.*, areas with access to the public).

Further, the station owner will take whatever preventive steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive RF energy. On this basis, a grant of this application would clearly be a minor environmental action with respect to public and occupational exposure to nonionizing electromagnetic radiation.

I declare under penalty of perjury that the foregoing statements and the attached Engineering Report, which was prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.



KEVIN T. FISHER

May 22, 2002