

EXHIBIT A

## ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of KSAZ LICENSE, INC., permittee of KSAZ-DT, Channel 31, Phoenix, Arizona, in support of its application for a new auxiliary facility. Specifically, it is proposed that KSAZ-DT sidemount an Andrew ATW2G175-HSS-31 antenna on its tower, below its main antenna.

Exhibit B is a vertical sketch of the proposed antenna and supporting structure, and antenna pattern data is included in Exhibit C. Exhibit D shows that the 41 db $\mu$  contour of the auxiliary facility is entirely within that of the main facility.

We have studied the RF transmissions of this facility with regard to their environmental effect. Employing the methods set forth in *OST Bulletin No. 65* and considering the vertical pattern of the proposed antenna, we calculate maximum power density two meters above ground from the proposed facility to be 0.75 mw/cm<sup>2</sup> at locations 15 meters from the base of the tower. This is but 39 percent of the 1.9 mw/cm<sup>2</sup> reference at this frequency for controlled areas, i.e., areas without public access surrounding stations operating on Channel 31 (572-578 MHz). Because of the large number of transmitters on South Mountain, it is impractical to calculate the total power density in the vicinity of the KSAZ-DT transmitter. Therefore, KSAZ-DT will establish compliance by field strength measurements or detailed calculations prior to regular operation. On this basis, and since the applicant will take whatever corrective 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

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excessive nonionizing radiation, a grant of this application would clearly be a minor environmental action.

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

A handwritten signature in dark ink, consisting of a stylized 'N' followed by a horizontal line.

NEIL M. SMITH

July 24, 2001

WASHINGTON, D.C.