

## ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of KMSB-TV, INC., applicant for a new DTV station to operate on Channel 25 as KMSB-DT in Tucson, Arizona (BPCDT-19991029AGO). It is proposed to amend that application by reducing ERP and making changes in pattern, antenna height and pattern.

Exhibit B provides antenna pattern data, and the digital service contours appear as Exhibit C. Since the proposed ERP is greater than that specified in the allotment in certain directions, an allocation study is included in Exhibit D. KMSB-DT intends to share this antenna with KOLD-DT, KVOA-DT, and KTTU-DT. It is not expected that the proposed facility would cause objectionable interference to these or any authorized stations, but KMSB-DT recognizes its obligation to correct any such interference that may occur.

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 Dielectric antenna, we calculate maximum power density two meters above ground from the proposed facility to be  $0.051 \text{ mw/cm}^2$ , at locations 11 meters south of the tower base, which is 14.2 percent of the  $0.36 \text{ mw/cm}^2$  reference at this frequency for uncontrolled areas. Because of the many RF sources at this site, it is not possible at this time to determine whether or not the contribution from the proposed facility will cause excessive exposure levels in combination with the contribution of others, KMSB-DT will accept a construction permit conditioned on the submission of further calculations or measurements. Of

EXHIBIT A

course, KMSB-DT 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.

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.

A handwritten signature in black ink, appearing to read 'Neil M. Smith', with a long horizontal stroke extending to the right.

NEIL M. SMITH

August 4, 2003