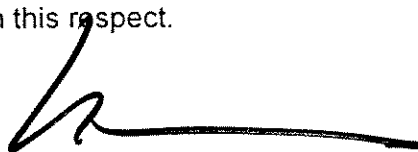


## ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of FOX TELEVISION STATIONS, INC., licensee of WDAF-TV, Channel 4, Kansas City, Missouri, in support of its application for a new digital television facility to operate on Channel 34 as WDAF-DT. This statement provides data on the environmental levels of RF energy in the vicinity of the transmitter site.

WDAF-DT will operate with a maximum ERP of 1000 kw H and 250 kw V and a center of radiation 295 meters above ground. Employing the methods set forth in *OET Bulletin No. 65* and considering the vertical pattern of the proposed antenna, we calculate that maximum power density two meters above ground of  $0.0012 \text{ mw/cm}^2$  would exist 76 meters from the base of the tower. This is but 0.30 percent of the  $0.40 \text{ mw/cm}^2$  reference for uncontrolled environments, i.e., areas with public access, surrounding stations operating on Channel 34 (590-596 MHz). Therefore, this facility may be excluded from consideration with respect to public exposure to nonionizing electromagnetic radiation.

WDAF-DT will modify its operation so that if personnel must climb the tower for repair or maintenance, appropriate steps are taken, e.g., reducing power or temporarily leaving the air, to assure an absence of excessive RF exposure in controlled areas. On this basis, and considering that the station would produce significantly less than five percent of the current FCC reference in uncontrolled areas, a grant of the subject application would clearly constitute a minor environmental action in this respect.



NEIL M. SMITH