

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of FOX TELEVISION STATIONS, INC., permittee of WDAF-DT, Channel 34 in Kansas City, Missouri, in support of its application for Construction Permit to specify the allotment facility described in Appendix B of the Commission's recently issued DTV Table of Allotments. In addition, this application seeks to correct the site coordinates listed for the allotment facility in order to correspond with those of the actual tower location and the present WDAF-TV and WDAF-DT authorizations.

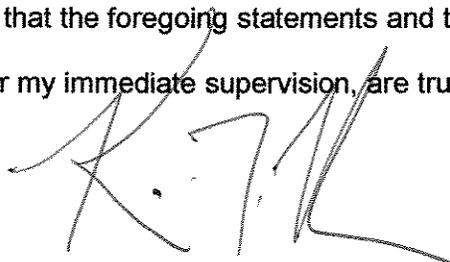
Exhibit B provides elevation pattern data for the proposed facility. Exhibit C is a map upon which the predicted service contours are plotted. As shown, the city of license is completely contained within the proposed 48 dBu service contour. Since the proposed facility has been allotted by the FCC, no interference study is required. A power density calculation is provided in Exhibit D.

It is not expected that the proposed facility would cause objectionable interference to any other broadcast or non-broadcast station authorized to operate at or near the WDAF-DT site. However, if such should occur, the owner of this station recognizes its obligation to take whatever corrective actions are necessary.

Since no change in overall height or location of the existing tower is proposed herein, the FAA has not been notified of this application. In addition, the FCC issued Antenna Structure Registration Number 1004499 to this tower.

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.

January 14, 2008

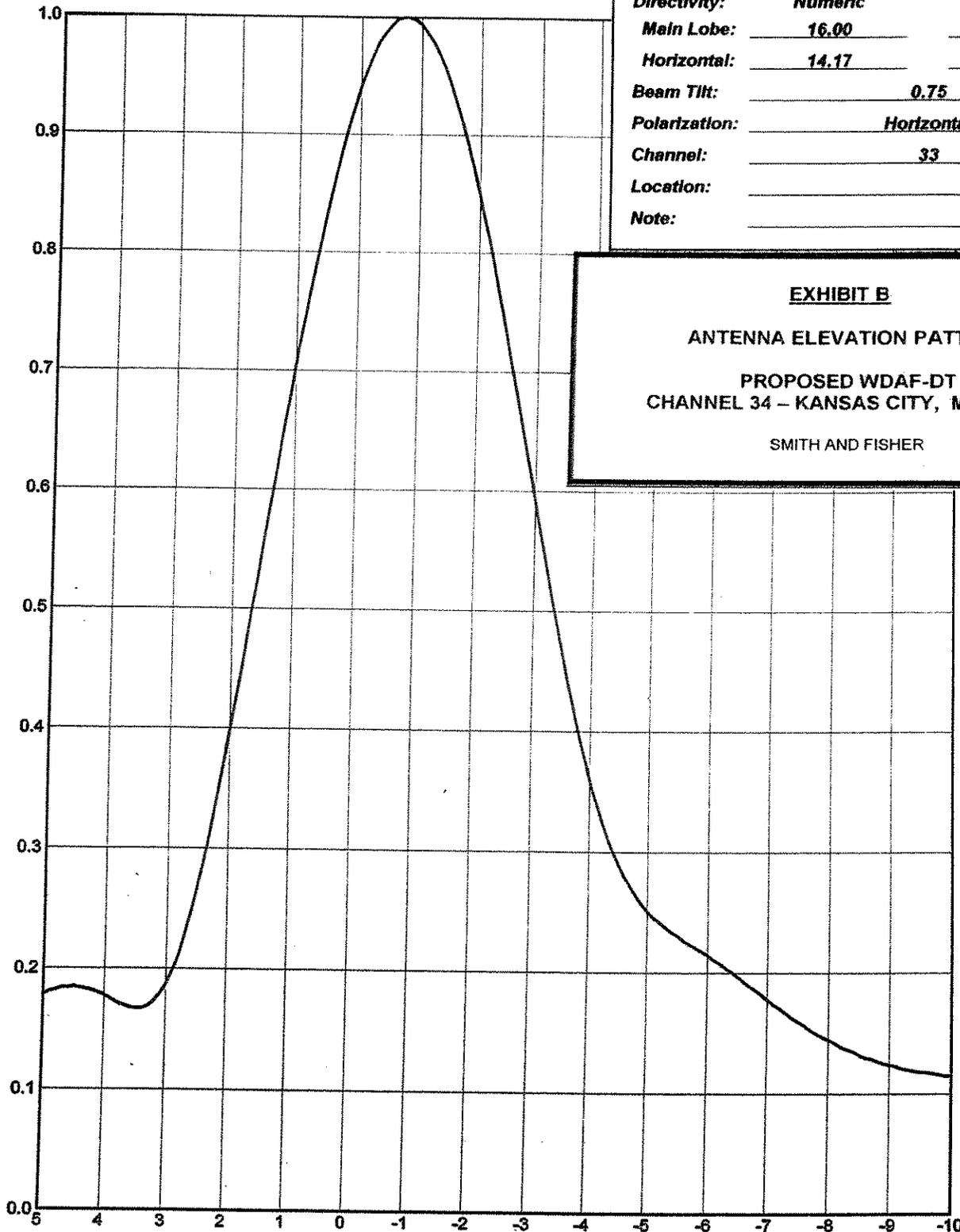
  
KEVIN T. FISHER



### ELEVATION PATTERN

Type:	ATW16HS3H	
Directivity:	Numeric	dBd
Main Lobe:	16.00	12.04
Horizontal:	14.17	11.51
Beam Tilt:	0.75	
Polarization:	Horizontal	
Channel:	33	
Location:		
Note:		

Relative Field



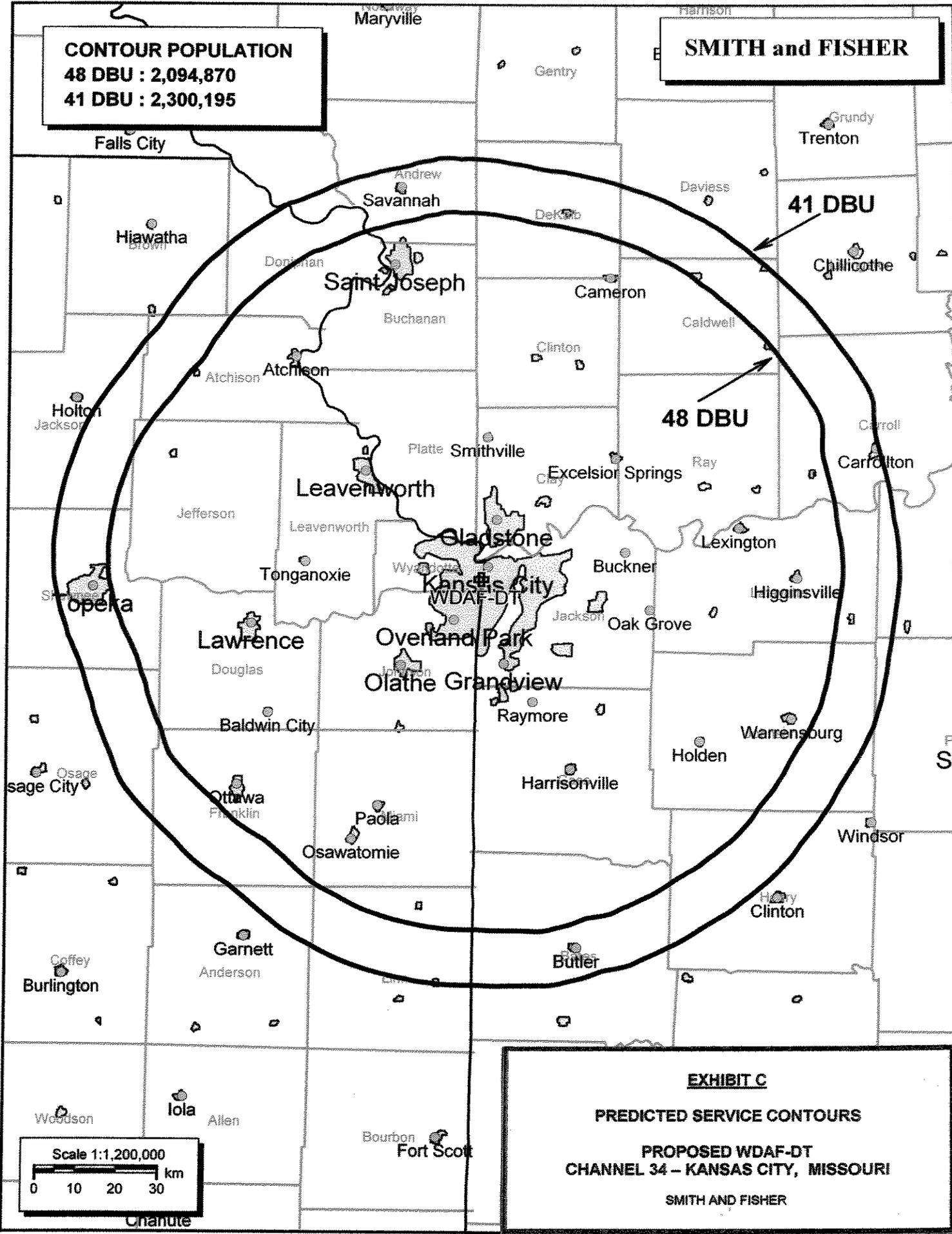
**EXHIBIT B**  
ANTENNA ELEVATION PATTERN  
PROPOSED WDAF-DT  
CHANNEL 34 – KANSAS CITY, MISSOURI  
SMITH AND FISHER



Electronics Research, Inc.  
7777 Gardner Road  
Chandler, Indiana U.S.A 47610

**CONTOUR POPULATION**  
**48 DBU : 2,094,870**  
**41 DBU : 2,300,195**

**SMITH and FISHER**

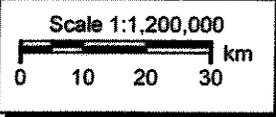


**41 DBU**

**48 DBU**

**EXHIBIT C**

**PREDICTED SERVICE CONTOURS**  
**PROPOSED WDAF-DT**  
**CHANNEL 34 – KANSAS CITY, MISSOURI**  
**SMITH AND FISHER**



POWER DENSITY CALCULATION

PROPOSED WDAF-DT  
CHANNEL 34 – KANSAS CITY, MISSOURI

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Kansas City facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 1000 kw, an antenna radiation center 343 meters above ground, and the elevation pattern of the ERI antenna, maximum power density two meters above ground of  $0.00069 \text{ mw/cm}^2$  is calculated to occur 124 meters from the base of the tower. Since this is only 0.2 percent of the  $0.39 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 34 (590-596 MHz), a grant of this proposal may be considered a minor environmental action with respect to public and occupational ground-level exposure to nonionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary 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 nonionizing radiation.