

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of FOX TELEVISION STATIONS, INC., licensee of KMSP-DT, Channel 26 in Minneapolis, Minnesota, in support of its Application for Construction Permit to operate on Channel 9 with its post-transition DTV facility.

It is proposed to utilize the existing Channel 9 Dielectric omnidirectional antenna at the 436-meter level of the existing 447-meter tower on which the present KMSP-DT antenna is mounted. Exhibit B provides elevation pattern data for the existing antenna, and proposed operating parameters are tabulated in Exhibit C. Exhibit D is a map upon which the predicted service contours are plotted. As shown, the city of license is completely contained within the proposed 43 dBu service contour. It can be seen in Exhibit E that the proposed 36 dBu contour extends slightly beyond that of the allotment facility assigned to KMSP-DT in Appendix B of the Commission's DTV Table of Allotments. However, at no azimuth does the proposed contour exceed that of the allotment facility by more than five miles. Accordingly, since the station's post-transition DTV Channel (9) is different than its pre-transition DTV Channel (26), the applicant requests a waiver of the current freeze on the filing of such an application. An interference study is included in Exhibit F, and a power density calculation is provided in Exhibit G.

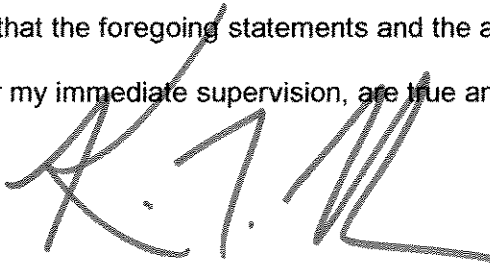
It is not expected that the proposed facility would cause objectionable interference to any other broadcast or non-broadcast station authorized to operate at or near the KMSP-DT site.

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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 1022899 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.

A handwritten signature in black ink, appearing to read 'K. T. Fisher', is written over the text of the declaration.

KEVIN T. FISHER

March 7, 2008



Proposal Number **C-00636**  
Date **7-Sep-06**  
Call Letters **KMSP-DT** Channel **9**  
Location **Minneapolis, MN**  
Customer  
Antenna Type **TF-10HT-1-H**

### ELEVATION PATTERN

RMS Gain at Main Lobe **10.00 ( 10.00 dB )**

Beam Tilt **0.50 deg**

RMS Gain at Horizontal **9.70 ( 9.87 dB )**

Frequency **189.00 MHz**

Calculated / Measured **Calculated**

Drawing # **10U100050-90**

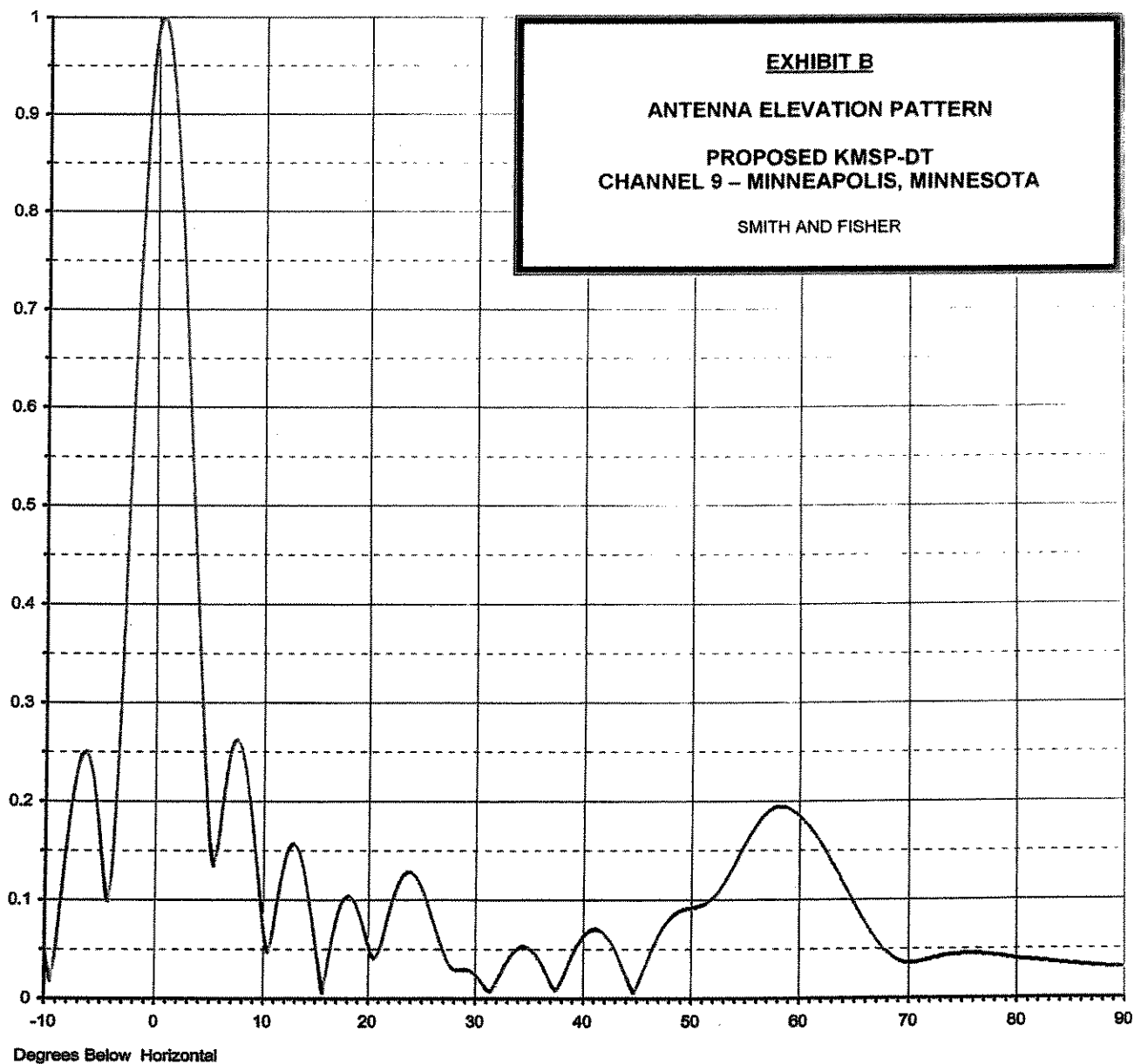


EXHIBIT C

PROPOSED OPERATING PARAMETERS

PROPOSED KMSP-DT  
CHANNEL 9 – MINNEAPOLIS, MINNESOTA

Transmitter Power Output:	2.63 kw
Transmission Line Efficiency:	79.9%
Antenna Power Gain – Main Lobe:	10.0
Effective Radiated Power – Main Lobe:	21.0 kw

Transmitter Make and Model:	Type-accepted
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Transmission Line Make and Model:	Dielectric EIA/DCA
Size and Type:	6-1/8" rigid
Length:	1530 feet

Antenna:

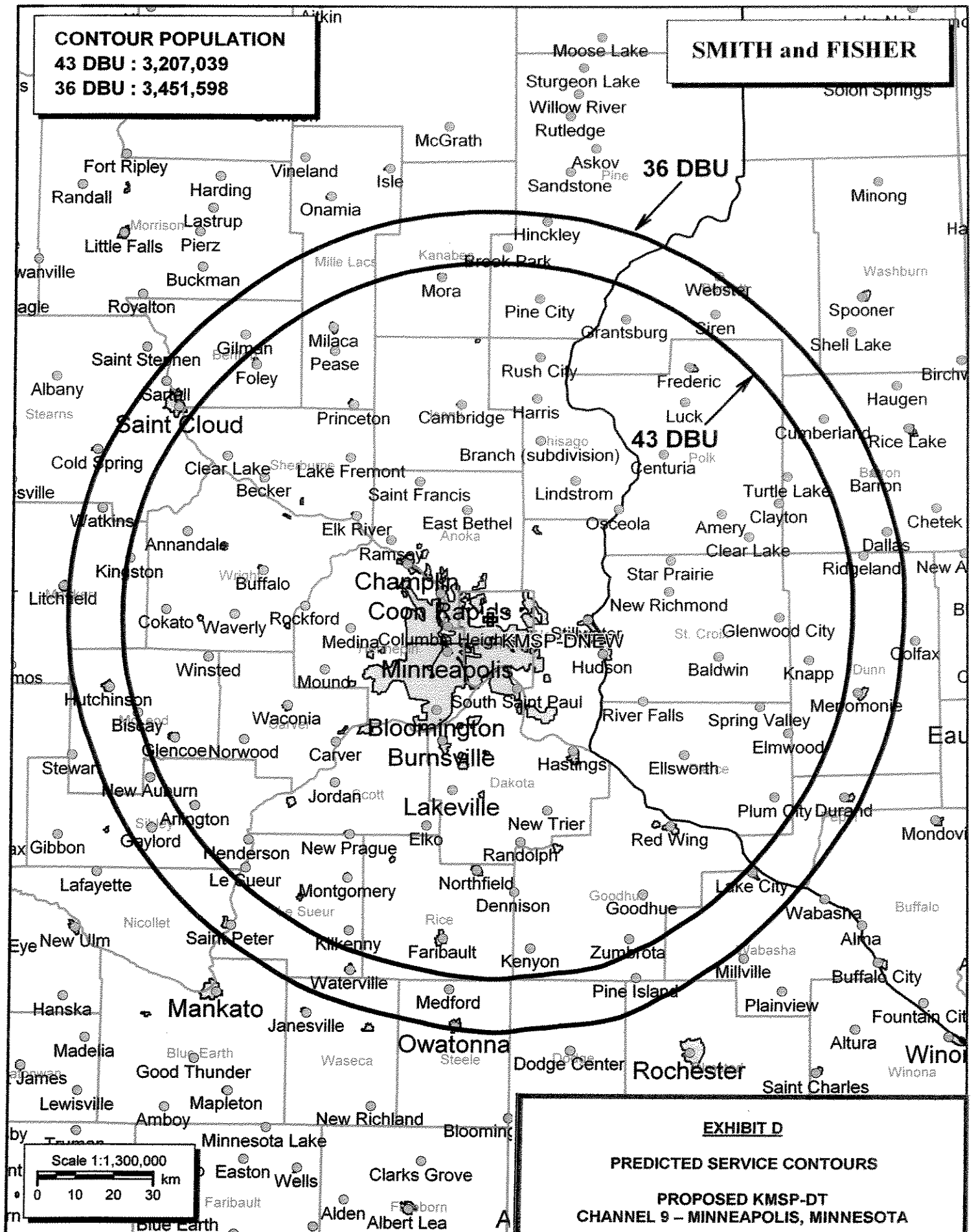
Make and Model:	Dielectric TF-10HT-1-H
Orientation	Omnidirectional
Beam Tilt	0.5 degrees
Radiation Center Above Ground:	436 meters
Radiation Center Above Mean Sea Level:	713 meters

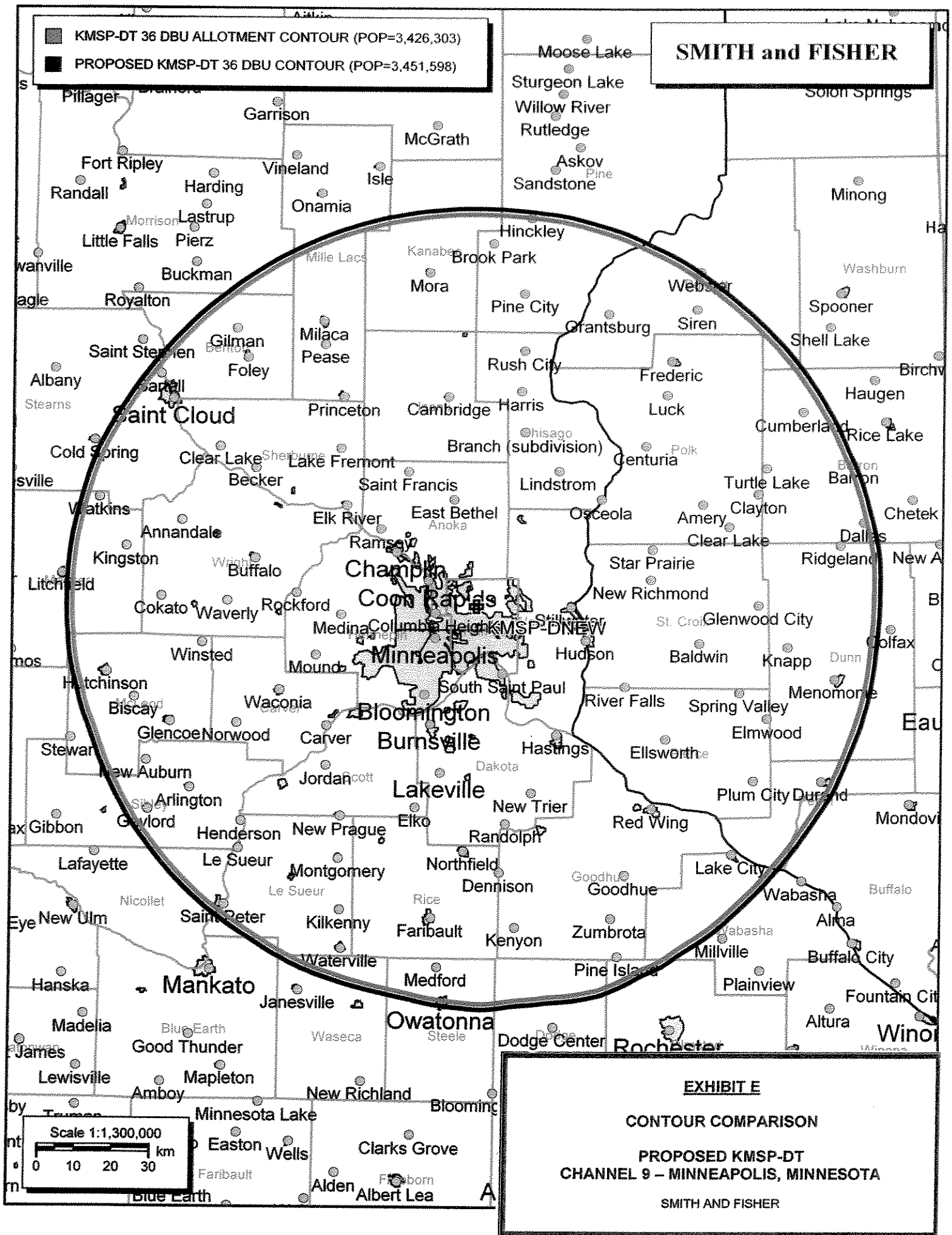
**CONTOUR POPULATION**

**43 DBU : 3,207,039**

**36 DBU : 3,451,598**

**SMITH and FISHER**





INTERFERENCE STUDY  
PROPOSED KMSP-DT  
CHANNEL 9 – MINNEAPOLIS, MINNESOTA

The instant application specifies an ERP of 21 kw (omnidirectional) at 433 meters above average terrain, which we have determined to be allowable under the FCC's recently approved interference standards with respect to various digital television facilities as they will exist on or before February 17, 2009, the date by which all stations must operate with the parameters recently adopted in the Commission's DTV Table of Allotments.

In evaluating the interference effect of this proposal, we have relied upon the V-Soft Communications "Probe III" computer program, which has been found generally to mimic the FCC's program. In conducting our studies, we employed a cell size of 2.0 kilometers and an increment spacing of 1.0 kilometer along each radial. In addition, we utilized the 2000 U.S. Census. Changes in interference caused by proposed KMSP-DT to other pertinent stations are tabulated in Exhibit F-2.

As shown, the proposed KMSP-DT facility would not contribute more than 0.5% interference (beyond that which is caused by the allotted KMSP-DT facility) to the service population of any potentially affected post-transition DTV station.

A Longley-Rice interference study also reveals that the proposed KMSP-DT facility does not cause significant (0.5%) interference within the protected service contour of any potentially affected Class A low power television station.

Therefore, this proposal meets the FCC's *de minimis* interference standards for DTV operations.

EXHIBIT F-2

## INTERFERENCE STUDY SUMMARY

PROPOSED KMSP-DT  
CHANNEL 9 – MINNEAPOLIS, MINNESOTA

<u>Call Sign</u>	<u>City, State</u>	<u>CH.</u>	<u>Coverage Population</u>	<u>Interference Population From KMSP-DT*</u>	<u>%</u>
Kawe-DT Allotment	Bemidji, MN	9	117,740	492	0.4
KABY-DT Allotment	Aberdeen, SD	9	129,502	131	0.1
WAOW-DT Allotment	Wausau, WI	9	530,394	283	<0.1
KCRG-DT BPCDT-20080227ABZ	Cedar Rapids, IA	9	968,554	94	<0.1
KCAU-DT Allotment	Sioux City, IA	9	655,172	0	0

\*Above that caused by the KMSP-DT allotment facility.



EXHIBIT G

POWER DENSITY CALCULATION

PROPOSED KMSP-DT  
CHANNEL 9 – MINNEAPOLIS, MINNESOTA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Minneapolis facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 21 kw, an antenna radiation center 436 meters above ground, and the elevation pattern of the Dielectric antenna, maximum power density two meters above ground of  $0.00011 \text{ mw/cm}^2$  is calculated to occur 271 meters from the base of the tower. Since this is less than 0.1 percent of the  $0.2 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 9 (186-192 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.