

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 a maximized post-transition DTV facility.

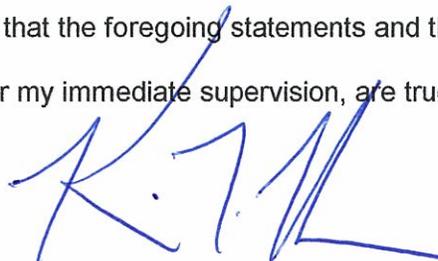
It is proposed to utilize the existing Channel 9 Dielectric directional antenna, which is mounted at the 436-meter level of an existing 447-meter tower. Exhibit B provides elevation and azimuth pattern data for the existing antenna. Exhibit C is a map upon which the predicted service contours are plotted. As shown, the city of license is completely contained within the proposed 43 dBu service contour. An interference study is included in Exhibit D, and a power density calculation is provided in Exhibit E.

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. 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.

June 20, 2008



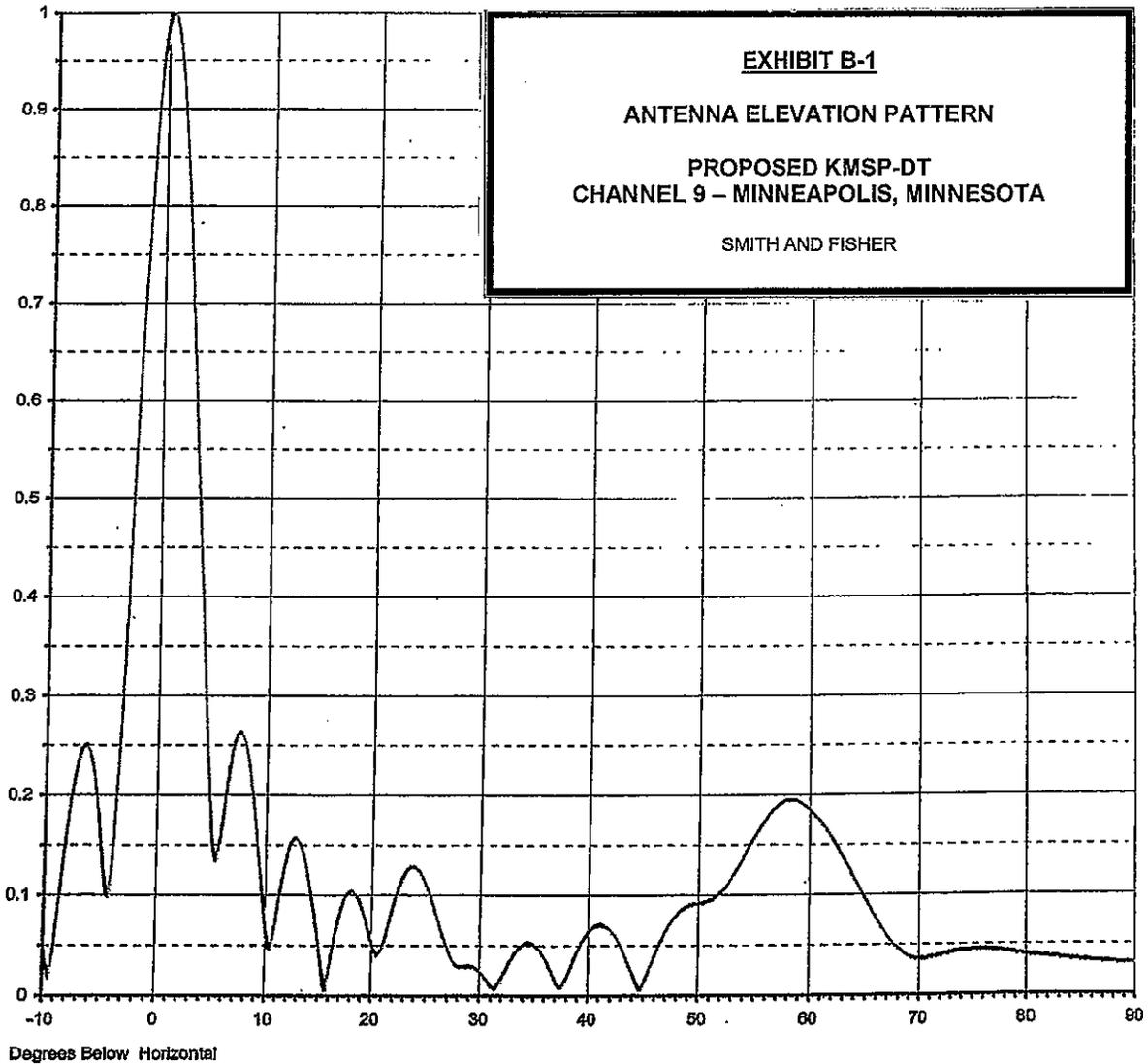
KEVIN T. FISHER



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 Till 0.50 deg
RMS Gain at Horizontal 9.70 (9.87 dB) Frequency 189.00 MHz
Calculated / Measured Calculated Drawing # 10U100050-90



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

AZIMUTH PATTERN

Gain **1.30** (**1.14 dB**)
Calculated / Measured **Calculated**

Frequency **189.00 MHz**
Drawing # **TF-O4-1873**

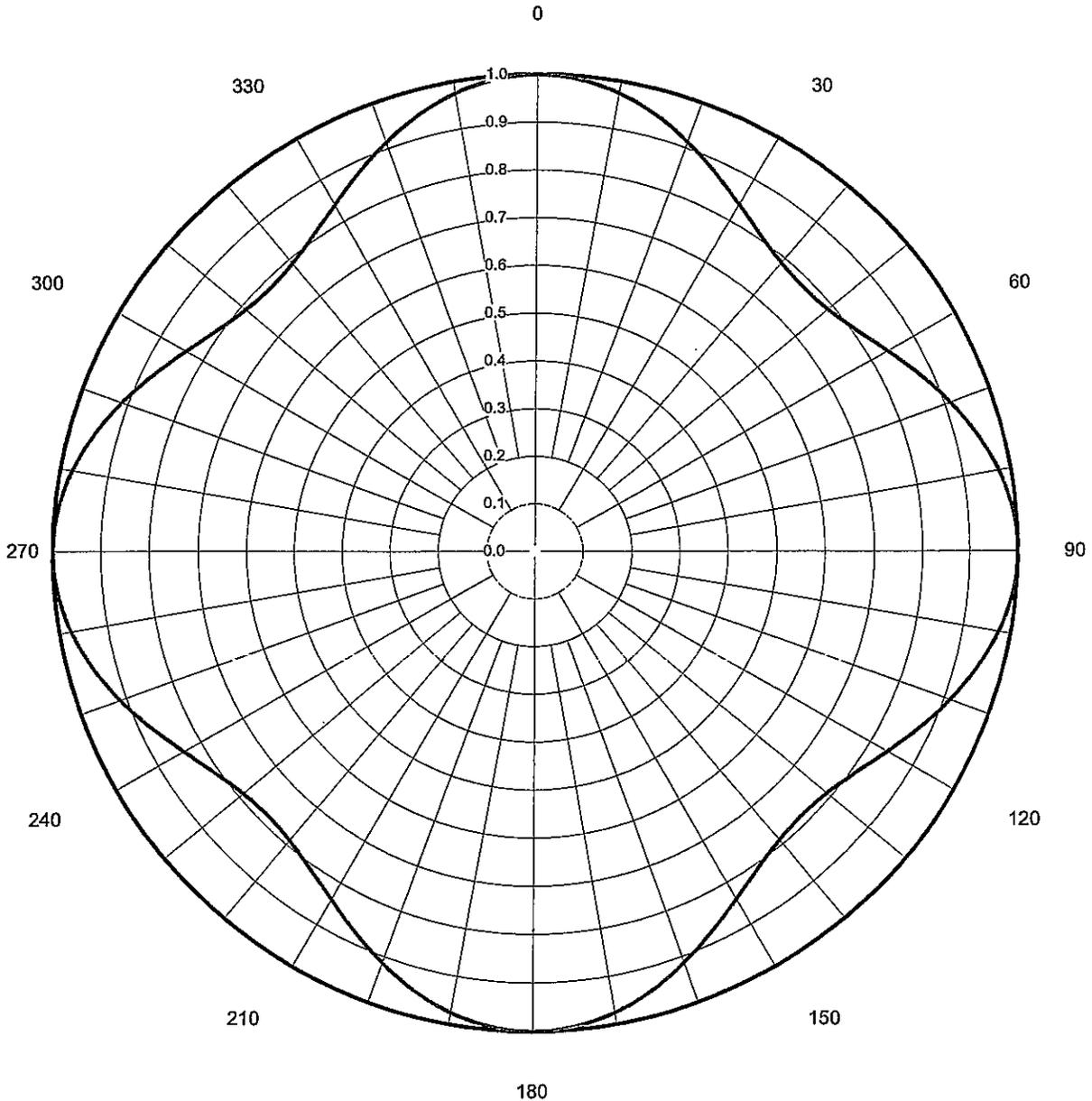
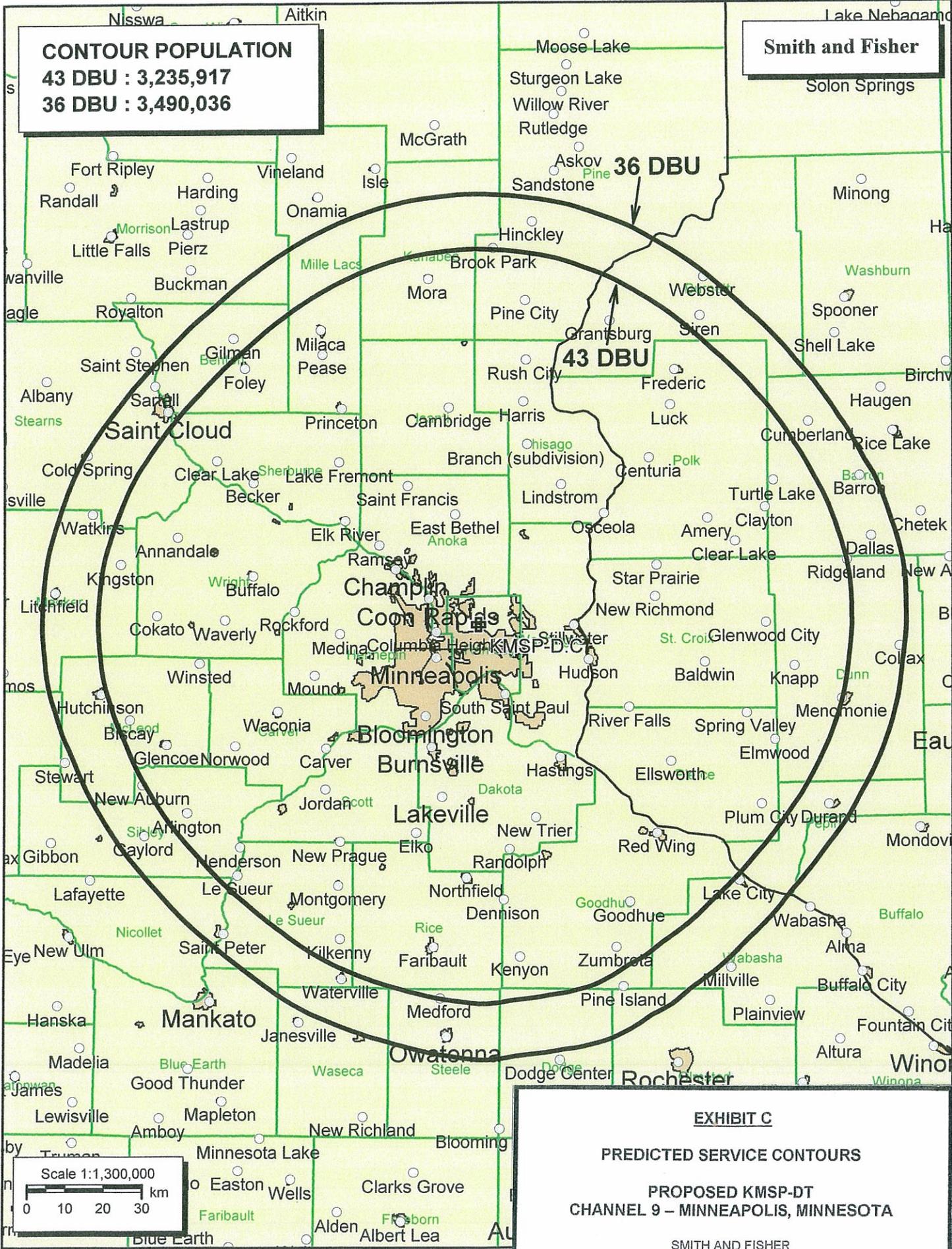


EXHIBIT B-2
ANTENNA AZIMUTH PATTERN
PROPOSED KMSP-DT
CHANNEL 9 – MINNEAPOLIS, MINNESOTA
SMITH AND FISHER

ANTENNA AZIMUTH PATTERN DATA
PROPOSED KMSP-DT
CHANNEL 9 – MINNEAPOLIS, MINNEOSOTA

<u>Azimuth</u> (° T)	<u>Relative</u> <u>Field</u>	<u>ERP</u> (dbk)	<u>Azimuth</u> (° T)	<u>Relative</u> <u>Field</u>	<u>ERP</u> (dbk)
0	1.000	15.4	180	1.000	15.4
10	0.975	15.2	190	0.975	15.2
20	0.913	14.6	200	0.913	14.6
30	0.840	13.9	210	0.840	13.9
40	0.789	13.3	220	0.789	13.3
50	0.789	13.3	230	0.789	13.3
60	0.840	13.9	240	0.840	13.9
70	0.913	14.6	250	0.913	14.6
80	0.975	15.2	260	0.975	15.2
90	1.000	15.4	270	1.000	15.4
100	0.975	15.2	280	0.975	15.2
110	0.913	14.6	290	0.913	14.6
120	0.840	13.9	300	0.840	13.9
130	0.789	13.3	310	0.789	13.3
140	0.789	13.3	320	0.789	13.3
150	0.840	13.9	330	0.840	13.9
160	0.913	14.6	340	0.913	14.6
170	0.975	15.2	350	0.975	15.2



CONTOUR POPULATION
43 DBU : 3,235,917
36 DBU : 3,490,036

Smith and Fisher

EXHIBIT C
PREDICTED SERVICE CONTOURS
PROPOSED KMSP-DT
CHANNEL 9 – MINNEAPOLIS, MINNESOTA
 SMITH AND FISHER

Scale 1:1,300,000
 0 10 20 30 km

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

The instant application specifies an ERP of 35 kw (directional) at 433 meters above average terrain, which has been 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, the applicant has relied upon the same Longley-Rice interference software used by the Commission in its studies. Based on the results of this analysis, 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 or Class A LPTV station.

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

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 35 kw (H, V), an antenna radiation center 436 meters above ground, and the elevation pattern of the Dielectric antenna, maximum power density two meters above ground of 0.00037 mw/cm^2 is calculated to occur 271 meters from the base of the tower. Since this is less than 0.2 percent of the 0.2 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.