

EXHIBIT A

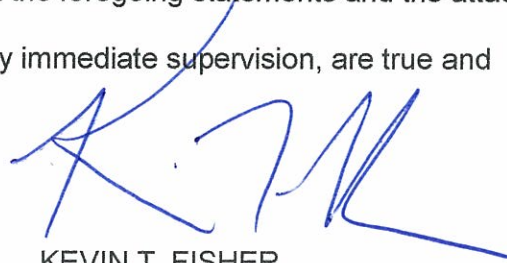
ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of FOX TELEVISION STATIONS, INC., licensee of television translator K33KC, Channel 33 in Wadena, Minnesota, in support of this Application for Construction Permit to specify digital operation on Channel 33, as a "flashcut" proposal. No change in site location or antenna height is proposed herein.

It is intended to utilize the existing Scala omnidirectional antenna, which is mounted at the 137-meter level of an existing 151-meter communications tower. Exhibit B is a map upon which the service contours are plotted. It is important to note that the proposed 51 dBu contour encompasses the station's city of license. Operating parameters for the proposed facility are tabulated in Exhibit C. An interference study is provided in Exhibit D, and a new power density calculation follows as Exhibit E.

Because no change in the overall height or location of the existing tower is proposed, the FAA has not been notified of this application. The FCC issued Antenna Structure Registration Number 1031884 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.



KEVIN T. FISHER

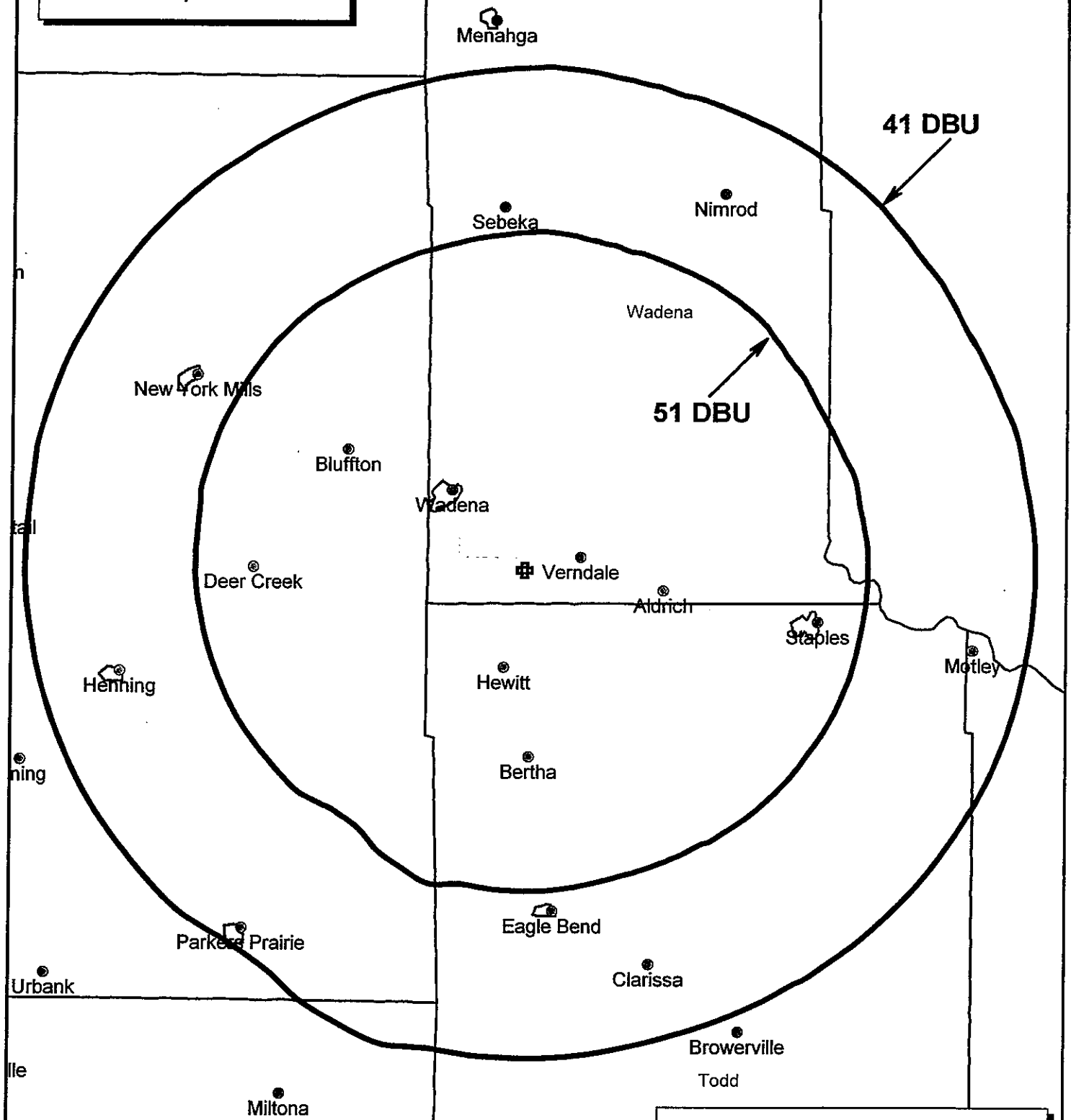
July 22, 2009

**CONTOUR POPULATION**

**51 DBU : 18,553**

**41 DBU : 33,886**

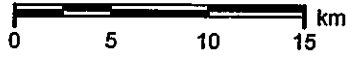
**SMITH and FISHER**



**41 DBU**

**51 DBU**

Scale 1:400,000



**EXHIBIT B**

EXHIBIT C

## PROPOSED OPERATING PARAMETERS

PROPOSED K33KC-D  
CHANNEL 33 – WADENA, MINNESOTA

Transmitter Power Output:	30 watts
Transmission Line Efficiency:	56.6%
Antenna Power Gain – Toward Horizon:	14.06
Antenna Power Gain – Main Lobe:	14.06
Effective Radiated Power – Toward Horizon:	0.24 kw
Effective Radiated Power – Main Lobe:	0.24 kw
Transmitter Make and Model:	Type-accepted
Rated Output	0.03 kw
Transmission Line Make and Model:	Andrew HJ7-50A
Size and Type:	1-5/8" air heliax
Length:	475 feet*
Antenna Make and Model:	Scala SL-8
Orientation	Omnidirectional
Beam Tilt	1.75 degrees
Radiation Center Above Ground:	137 meters
Radiation Center Above Mean Sea Level:	549 meters

\*estimated

EXHIBIT D-1

LONGLEY-RICE INTERFERENCE STUDIES  
PROPOSED K33KC-D  
CHANNEL 33 – WADENA, MINNESOTA

We conducted detailed interference studies using the Longley-Rice methodology contained in the Commission's *OET Bulletin No. 69*, with respect to all facilities of concern. The software utilizes a 2-square kilometer cell size, calculates signal strength at 1- kilometer increments along each radial studied, and employs the 2000 U.S. Census to count population within cells. In addition, the program does not attribute interference to the proposed facility in cells within the protected contour of the station under study where interference from another source (other than proposed K33KC-D) already is predicted to exist (also known as "masking"). The results of these studies are provided in Exhibit D-2. They conclude that the facility proposed herein causes no significant new interference to any of the potentially affected stations.

As a result, it is believed that the proposed K33KC-D facility complies with the requirements of Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h), 74.794(b) and 73.1030 of the Commission's Rules.

INTERFERENCE SUMMARY

PROPOSED K33KC-D  
CHANNEL 33 – WADENA, MINNESOTA

<u>Call Sign</u>	<u>Status</u>	<u>City, State</u>	<u>Ch.</u>	<u>Longley-Rice Service Population</u>	<u>Unmasked Interference From Proposed Facility</u>	<u>%</u>	<u>.</u>
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[NO STATIONS AFFECTED]

EXHIBIT E

POWER DENSITY CALCULATION

PROPOSED K33KC-D  
CHANNEL 33 – WADENA, 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 Wadena facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 0.24 kw, an antenna radiation center 137 meters above ground, and the vertical pattern of the Scala antenna, maximum power density two meters above ground of  $0.000024 \text{ mw/cm}^2$  is calculated to occur 55 meters from the base of the tower. Since this is less than 0.1 percent of the  $0.39 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 33 (584-590 MHz), this proposal may be excluded from consideration with respect to public 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.