

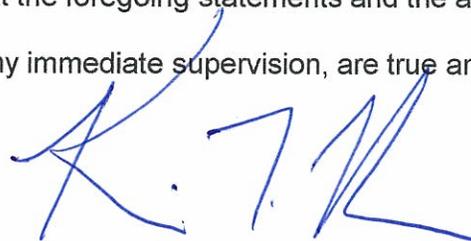
ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of FOX TELEVISION STATIONS, INC., licensee of television translator K48IF, Channel 48 in Brainerd, Minnesota, in support of this Application for Construction Permit to specify digital operation on Channel 48 from the licensed K48IF site, as a "flashcut" proposal.

It is proposed to utilize the existing Scala omnidirectional antenna, which is mounted at the 137-meter level of an existing 152-meter communications tower. Exhibit B is a map upon which the predicted service contours are plotted. It is important to note that the proposed 51 dBu contour encompasses a significant portion of the Grade A contour that obtains from the licensed K48IF facility. Operating parameters for the proposed facility are tabulated in Exhibit C. An interference study is provided in Exhibit D, and a 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 1024184 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.

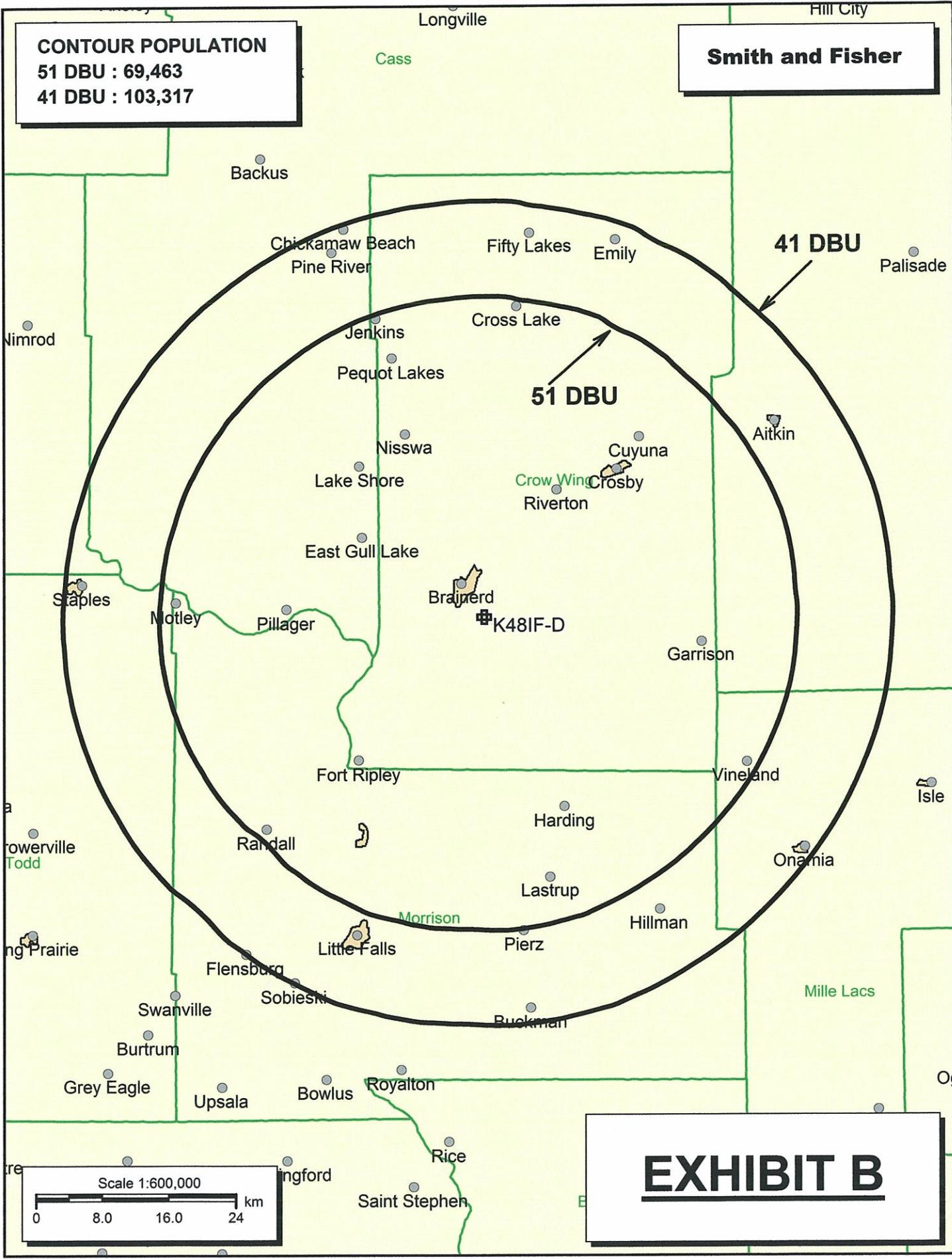


KEVIN T. FISHER

July 22, 2009

CONTOUR POPULATION
51 DBU : 69,463
41 DBU : 103,317

Smith and Fisher



PROPOSED OPERATING PARAMETERS

PROPOSED K48IF-D
CHANNEL 48 – BRAINERD, MINNESOTA

Transmitter Power Output:	0.325 kw
Transmission Line Efficiency:	60.3%
Antenna Power Gain – Toward Horizon:	14.06
Antenna Power Gain – Main Lobe:	14.06
Effective Radiated Power – Toward Horizon:	2.8 kw
Effective Radiated Power – Main Lobe:	2.8 kw
Transmitter Make and Model:	Type-accepted
Rated Output	325 watts
Transmission Line Make and Model:	Andrew HJ8-50B
Size and Type:	3" air heliax
Length:	500 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:	524 meters

*estimated

LONGLEY-RICE INTERFERENCE STUDY
PROPOSED K48IF-D
CHANNEL 48 – BRAINERD, MINNESOTA

We conducted a detailed interference study 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 K48IF-D) already is predicted to exist (also known as "masking"). The results of this study are provided in Exhibit D-2. It concludes 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 K48IF-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 K48IF-D
CHANNEL 48 – BRAINERD, 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>
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[NO STATIONS AFFECTED]

EXHIBIT E

POWER DENSITY CALCULATION
PROPOSED K48IF-D
CHANNEL 48 – BRAINERD, 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 Brainerd facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 2.8 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 0.00028 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 0.45 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 48 (674-680 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.