

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING NETWORK, licensee of television translator W61DG-D in Morristown, Tennessee, in support of this Application for Construction Permit to specify digital operation on Channel 40 from the licensed W61DG site. This proposal is being submitted in response to the Commission's assignment of Channel 33 to WCLP-DT in Chatsworth, Georgia. The site of WCLP-DT is located 206.3 kilometers from that of W61DG, thereby placing this translator in a displacement situation.

It is proposed to mount a standard Andrew directional antenna at the authorized height on the side of the existing 59-meter communications tower. Exhibit B is a map upon which the predicted service contours are plotted. It is important to note that the newly proposed 51 dBu contour encompasses a significant portion of the Grade A contour that obtains from the licensed W61DG 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 1050650 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.

March 17, 2006

  
KYLE T. FISHER

# CONTOUR POPULATION

51 DBU : 152,304

41 DBU : 250,569

Smith and Fisher

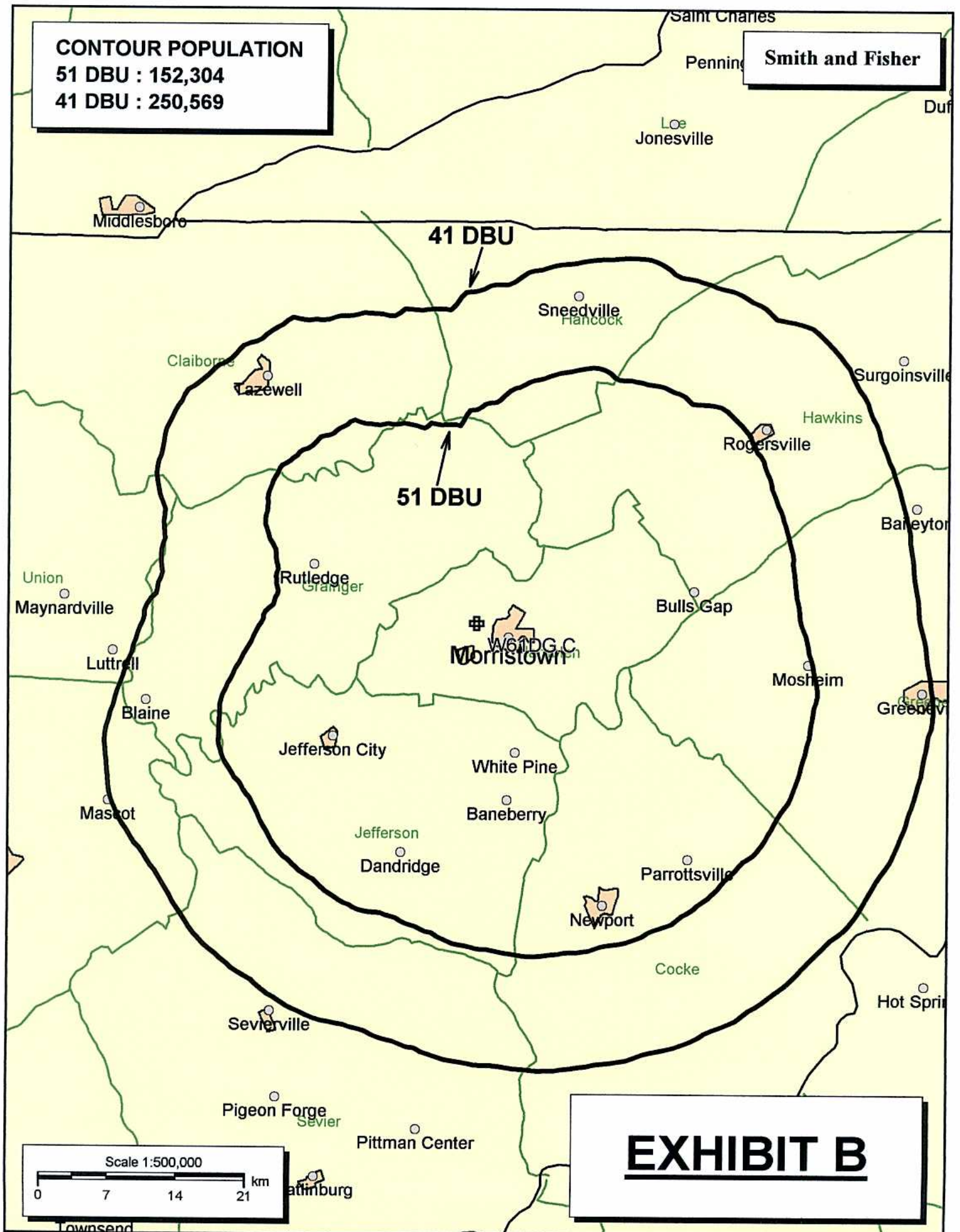


EXHIBIT C

## PROPOSED OPERATING PARAMETERS

PROPOSED W61DG-D  
CHANNEL 40 – MORRISTOWN, TENNESSEE

Transmitter Power Output:	0.1 kw
Transmission Line Efficiency:	91.1%
Antenna Power Gain – Toward Horizon:	22.99
Antenna Power Gain – Main Lobe:	22.99
Effective Radiated Power – Toward Horizon:	1.0 kw
Effective Radiated Power – Main Lobe:	1.0 kw
Transmitter Make and Model:	Type-accepted
Rated Output	100 watts
Transmission Line Make and Model:	Andrew HJ7-50A
Size and Type:	1-5/8" air heliax
Length:	75 feet
Antenna Make and Model:	Andrew ALP8L1-HSM
Orientation	135 degrees true
Beam Tilt	0.25 degrees
Radiation Center Above Ground:	20 meters
Radiation Center Above Mean Sea Level:	600 meters



EXHIBIT D-1

LONGLEY-RICE INTERFERENCE STUDIES  
PROPOSED W61DG-D  
CHANNEL 40 – MORRISTOWN, TENNESSEE

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 1-square kilometer cell size, calculates signal strength at 0.1 kilometer increments along each radial studied, and employs the 1990 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 W61DG-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 W61DG-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 W61DG-D  
CHANNEL 40 – MORRISTOWN, TENNESSEE

<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>
WETP-DT BLEDT-20050916AAX	Lic.	Sneedville, TN	41	1,529,680	841	0.1
WEMT BLCT-20050411ABB	Lic.	Greenville, TN	39	1,081,729	4,736	0.4

EXHIBIT E

POWER DENSITY CALCULATION

PROPOSED W61DG-D  
CHANNEL 40 – MORRISTOWN, TENNESSEE

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Morristown facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 1 kw, an antenna radiation center 20 meters above ground, and the vertical pattern of the Andrew antenna, maximum power density two meters above ground of  $0.0060 \text{ mw/cm}^2$  is calculated to occur 7 meters southeast of the base of the tower. Since this is only 1.4 percent of the  $0.42 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 40 (626-632 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.