

EXHIBIT A

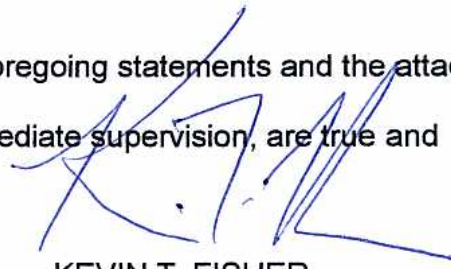
ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING NETWORK, licensee of television translator W16CF, Channel 16 in Charlotte, North Carolina, in support of this Application for Construction Permit to specify digital operation on Channel 45 from the licensed W16CF site. The proposal is being submitted in response to the Commission's assignment of Channel 16 to WPDE-DT in Florence, South Carolina. The site of WPDE-DT is located 158.4 kilometers from that of W16CF, 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 425-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 W16CF 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 1020784 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

March 2, 2006

41 DBU : 1,375,632

SMITH and FISHER



EXHIBIT C

PROPOSED OPERATING PARAMETERS

PROPOSED W16CF-D
CHANNEL 45 – CHARLOTTE, NORTH CAROLINA

Transmitter Power Output:	0.43 kw
Transmission Line Efficiency:	67.4 %
Antenna Power Gain – Toward Horizon:	17.47
Antenna Power Gain – Main Lobe:	17.74
Effective Radiated Power – Toward Horizon:	5.0 kw
Effective Radiated Power – Main Lobe:	5.0 kw
Transmitter Make and Model:	Type-accepted
Rated Output	0.5 kw
Transmission Line Make and Model:	Andrew HJ750A/HJ9-50
Size and Type:	1-5/8"/5" air heliax
Length:	70/655 feet
Antenna Make and Model:	Andrew ALP8L1-HSER
Orientation	220° T
Beam Tilt	0.25 degrees
Radiation Center Above Ground:	200 meters
Radiation Center Above Mean Sea Level:	397 meters

EXHIBIT D-1

LONGLEY-RICE INTERFERENCE STUDIES
PROPOSED W16CF-D
CHANNEL 45 – CHARLOTTE, NORTH CAROLINA

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 W16CF-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 W16CF-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 W16CF-D
CHANNEL 45 – CHARLOTTE, NORTH CAROLINA

<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>
WUNG-DT BLEDT-20010814ABF	Lic.	Concord, NC	44	2,093,591	159	<0.1
WJPM-DT BLEDT-20050324ACE	Lic.	Florence, NC	45	458,965	324	<0.1
WXLV-TV BLCT-19940926KH	Lic.	Winston-Salem, NC	45	1,740,510	2,169	0.1*
WASV-DT BPCDT-19991101AGU	CP	Asheville, NC	45	1,784,362	6,564	0.4
WJZY(TV) BLCT-1987032OKU	Lic.	Belmont, NC	46	2,274,213	573	<0.1

*with numerous maskers

EXHIBIT E

POWER DENSITY CALCULATION

PROPOSED W16CF-D
CHANNEL 45 – CHARLOTTE, NORTH CAROLINA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Charlotte facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 5 kw, an antenna radiation center 200 meters above ground, and the vertical pattern of the Andrew antenna, maximum power density two meters above ground of 0.00025 mw/cm^2 is calculated to occur 80 meters southwest of the base of the tower. Since this is significantly less than 0.1 percent of the 0.44 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 45 (656-662 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.