

EXHIBIT A

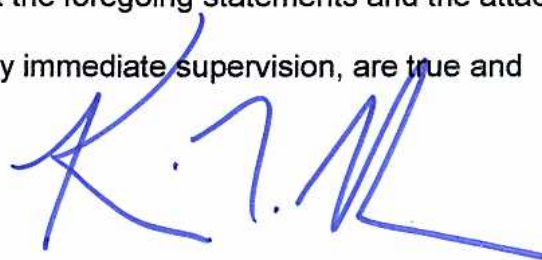
ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING NETWORK, licensee of television translator W65CG in Pittsburgh, Pennsylvania, in support of this application for modification of Construction Permit BMPTT-20040526ACB to specify digital operation on Channel 47 (its authorized displacement channel) from the licensed W65CG site, as a "flashcut" proposal.

It is proposed to utilize the authorized Andrew directional antenna at the authorized height on the side of the existing 144-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 W65CG 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 1026176 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 9, 2006

**41 DBU : 2,368,575**

## 41 DBU

51 DBU

## EXHIBIT B

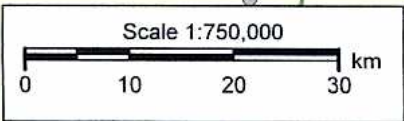




EXHIBIT C

## PROPOSED OPERATING PARAMETERS

PROPOSED W65CG-D  
CHANNEL 47 – PITTSBURGH, PENNSYLVANIA  
[MODIFICATION OF BMPTT-20040526ACB]

Transmitter Power Output:	0.91 kw
Transmission Line Efficiency:	58.2%
Antenna Power Gain – Toward Horizon:	28.2
Antenna Power Gain – Main Lobe:	28.2
Effective Radiated Power – Toward Horizon:	15.0 kw
Effective Radiated Power – Main Lobe:	15.0 kw
Transmitter Make and Model:	Type-accepted
Rated Output	1.0 kw
Transmission Line Make and Model:	Andrew HJ12-50A
Size and Type:	2-1/4" air heliax
Length:	500 feet
Antenna Make and Model:	Andrew ALP16L2-HSOC
Orientation	0° T
Beam Tilt	0.5 degrees
Radiation Center Above Ground:	137 meters
Radiation Center Above Mean Sea Level:	499 meters

EXHIBIT D-1

LONGLEY-RICE INTERFERENCE STUDIES  
PROPOSED W65CG-D  
CHANNEL 47 – PITTSBURGH, PENNSYLVANIA  
[MODIFICATION OF BMPTT-20040526ACB]

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 W65CG-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 W65CG-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 W65CG-D  
 CHANNEL 47 – PITTSBURGH, PENNSYLVANIA  
 [MODIFICATION OF BMPTT-20040526ACB]

<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>
WNEO-DT BLEDT-20031103ABQ	Lic.	Alliance, OH	46	2,243,562	480	<0.1
WKBS-TV BLCT-19850925KE	Lic.	Altoona, PA	47	535,716	2,397	0.4*
WOAC-DT BPCDT-19991101AEX	CP	Canton, OH	47	3,585,079	5,073	0.1
WPXI-DT BLCDT-20050609AAQ	Lic.	Pittsburgh, PA	48	3,351,129	290	<0.1

\*Interference masked by WOAC-DT and WPMT-DT.

EXHIBIT E

POWER DENSITY CALCULATION

PROPOSED W65CG-D  
CHANNEL 47 – PITTSBURGH, PENNSYLVANIA  
[MODIFICATION OF BMPTT-20040526ACB]

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Pittsburgh facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 15 kw, an antenna radiation center 137 meters above ground, and the vertical pattern of the Andrew antenna, maximum power density two meters above ground of  $0.0014 \text{ mw/cm}^2$  is calculated to occur 44 meters north of the base of the tower. Since this is only 0.3 percent of the  $0.45 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 47 (668-674 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.