

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of COMMUNITY TELEVISION, INC., licensee of noncommercial station WATC-DT, Channel 41 in Atlanta, Georgia, in support of its Application for Construction Permit to operate with a maximized post-transition DTV facility.

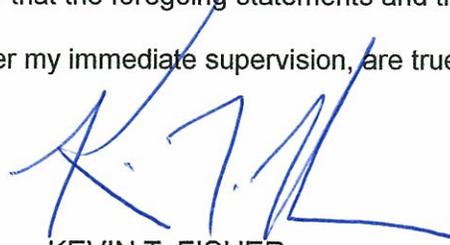
It is proposed to mount a standard ERI omnidirectional antenna at the 52-meter level of the existing 60-meter tower on which the present WATC-DT antenna is mounted. Exhibit B provides an elevation pattern for the proposed antenna. Exhibit C is a map upon which the predicted service contours are plotted. As shown, the city of license is completely contained within the proposed 48 dBu service contour. An interference study is included in Exhibit D, and it is important to note that the study utilized a cell size of 1.0 kilometers and an increment spacing of 0.1 kilometers. A power density calculation is provided in Exhibit E.

It is not expected that the proposed facility would cause objectionable interference to any other broadcast or non-broadcast station authorized to operate at or near the WATC-DT site. However, if such should occur, the owner of this station recognizes its obligation to take whatever corrective actions are necessary.

Since no change in overall height or location of the existing tower is proposed herein, the FAA has not been notified of this application. Due to the diminutive height of the tower and its proximity to the nearest airport runway, FCC antenna structure registration is not required. This conclusion is supported by the Commission's TOWAIR Program.

EXHIBIT A

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

May 9, 2008



ELEVATION PATTERN

Type:	ATW22HS2H	
Directivity:	Numeric	dBd
Main Lobe:	22.00	13.42
Horizontal:	20.13	13.04
Beam Tilt:	0.50	
Polarization:	Horizontal	
Channel:	32	
Location:		
Note:		

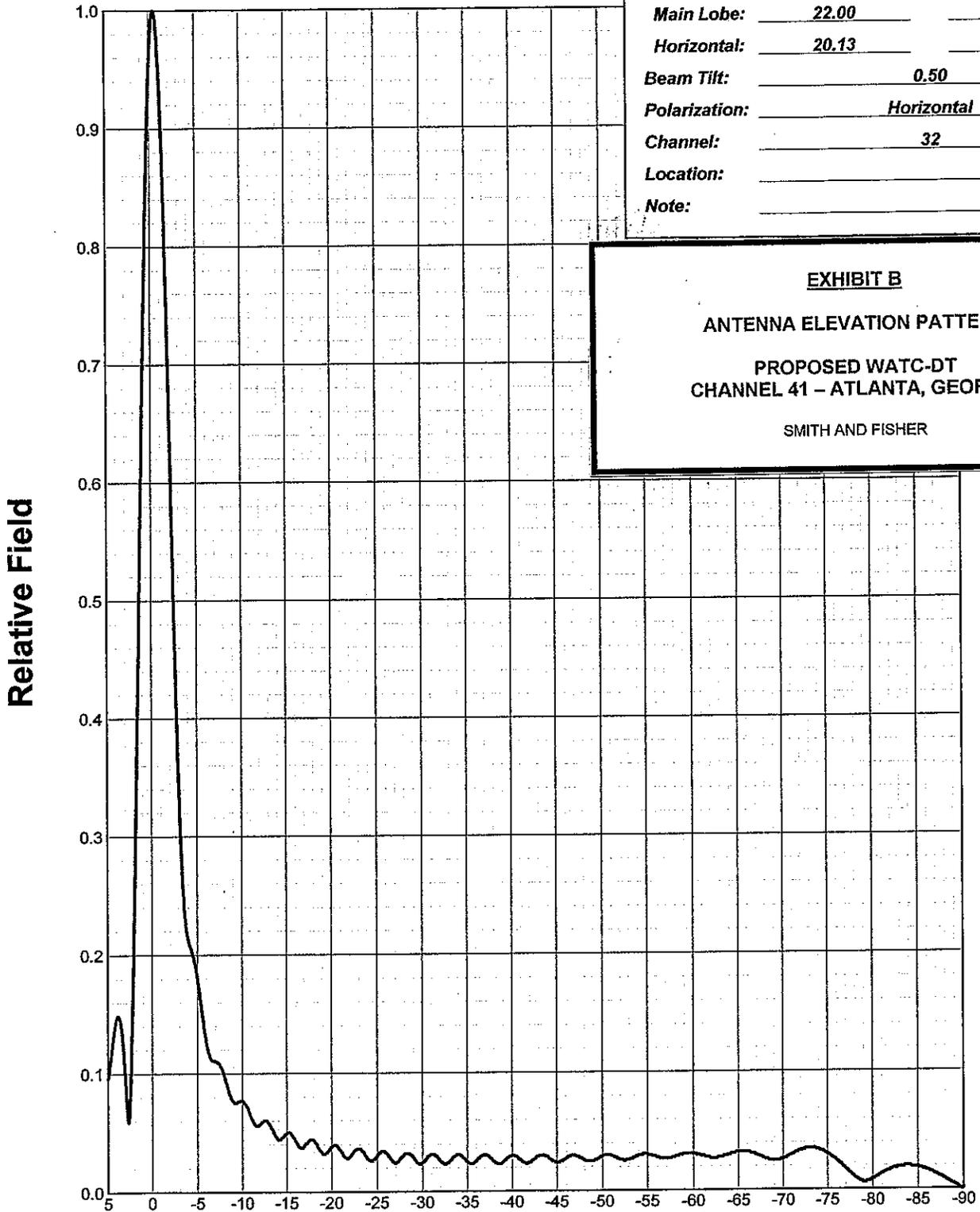


EXHIBIT B
ANTENNA ELEVATION PATTERN
PROPOSED WATC-DT
CHANNEL 41 - ATLANTA, GEORGIA
SMITH AND FISHER



Electronics Research, Inc.
7777 Gardner Road
Chandler, Indiana U.S.A 47610

CONTOUR POPULATION
48 DBU : 4,390,117
41 DBU : 4,742,219

SMITH and FISHER

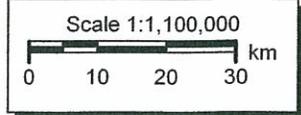
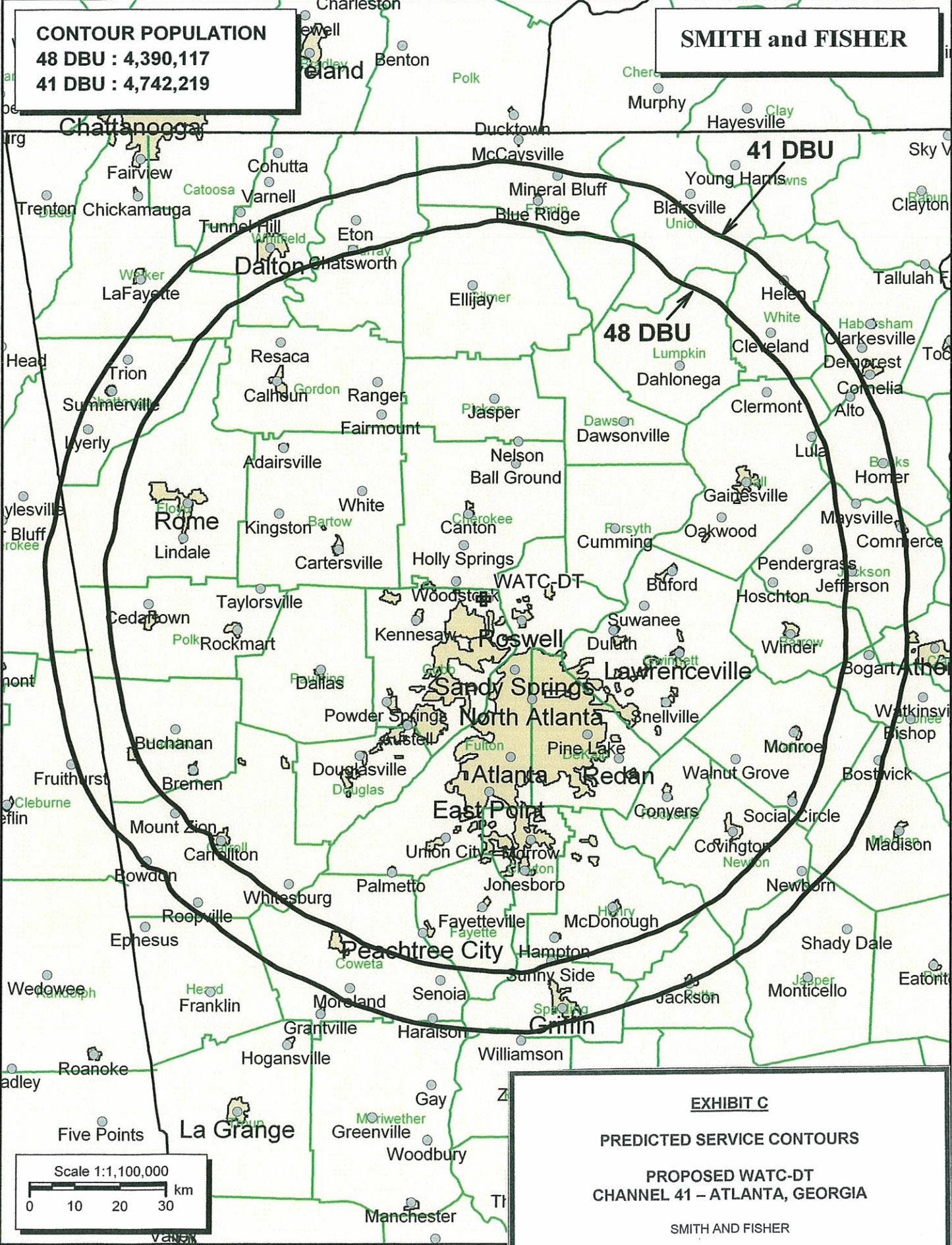


EXHIBIT C
PREDICTED SERVICE CONTOURS
PROPOSED WATC-DT
CHANNEL 41 - ATLANTA, GEORGIA
SMITH AND FISHER

INTERFERENCE STUDY
PROPOSED WATC-DT
CHANNEL 41 – ATLANTA, GEORGIA

The instant application specifies an ERP of 750 kw (omnidirectional) at 317 meters above average terrain, which we have determined to be allowable under the FCC's recently approved interference standards with respect to various post-transition digital television facilities as they will exist on or before February 17, 2009, the date by which all stations must operate with the parameters recently adopted in the Commission's DTV Table of Allotments.

In evaluating the interference effect of this proposal, we have relied upon the V-Soft Communications "Probe III" computer program, which has been found generally to mimic the FCC's program. In conducting our studies, we employed a cell size of 1.0 kilometers and an increment spacing of 0.1 kilometer along each radial. In addition, we utilized the 2000 U.S. Census. Changes in interference caused by proposed WATC-DT to other pertinent stations are tabulated in Exhibit D-2.

As shown, the proposed WATC-DT facility would not contribute more than 0.5% interference (beyond that which is caused by the allotted WATC-DT facility) to the service population of any potentially affected post-transition DTV station.

A Longley-Rice interference study also reveals that the proposed WATC-DT facility does not cause significant (0.5%) interference within the protected service contour of any potentially affected Class A low power television station.

Therefore, this proposal meets the FCC's *de minimis* interference standards for DTV operations.

EXHIBIT D-2

INTERFERENCE STUDY SUMMARY*

PROPOSED WATCH-DT
CHANNEL 41 – ATLANTA, GEORGIA

<u>Call Sign</u>	<u>City, State</u>	<u>CH.</u>	<u>Coverage Population</u>	<u>Interference Population From WATC-DT**</u>	<u>%</u>
WZDX-DT Allotment	Huntsville, AL	41	1,216,470	4,365	0.4
WDSI-DT BLCDT-20051011ABX	Chattanooga, TN	40	878,271	337	<0.1
WETP-DT BLEDT-20050916AAX	Sneedville, TN	41	1,730,948	4,191	0.2
WFLI-DT BLCDT-20050808AGH	Cleveland, TN	42	1,016,593	890	<0.1
WIRE-CA BLTTA-20070611AAI	Atlanta, GA	40	2,113,956	0	0

*This study utilized a cell size of 1.0 km and an increment spacing of 0.1 km.

**Above that caused by the allotment facility.

POWER DENSITY CALCULATION
PROPOSED WATC-DT
CHANNEL 41 – ATLANTA, GEORGIA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Atlanta facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 750 kw, an antenna radiation center 52 meters above ground, and the elevation pattern of the ERI antenna, maximum power density two meters above ground of 0.011 mw/cm^2 is calculated to occur 15 meters from the base of the tower. Since this is only 2.6 percent of the 0.42 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 41 (632-638 MHz), a grant of this proposal may be considered a minor environmental action with respect to public and occupational ground-level 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.