

ENGINEERING STATEMENT

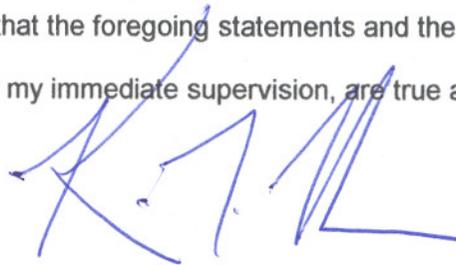
The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING NETWORK, licensee of WELF-DT, Channel 16 in Dalton, Georgia, in support of its Application for Construction Permit to operate with its post-transition DTV facility. It is proposed herein to move the authorized DTV antenna into the analog antenna aperture once the analog antenna is removed at the end of transition. A corresponding reduction in effective radiated power is also specified.

It is proposed to mount the existing Andrew directional antenna at the 142-meter level of the existing 152-meter tower on which the antenna is presently mounted. Exhibit B provides azimuth and elevation pattern data for the existing 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. The proposed height increase and corresponding power decrease specified herein combine to create a service contour which matches that licensed to WELF-DT. As a result, no interference study is included. A power density calculation is provided in Exhibit D.

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 WELF-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. In addition, the FCC issued Antenna Structure Registration Number 1028358 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

February 28, 2008



ANDREW

Channel: 16

Type: ATW22H3

Directivity: 22 (13.4 dBd)

Beam Tilt: 0.75

Beam Width: 2 degrees

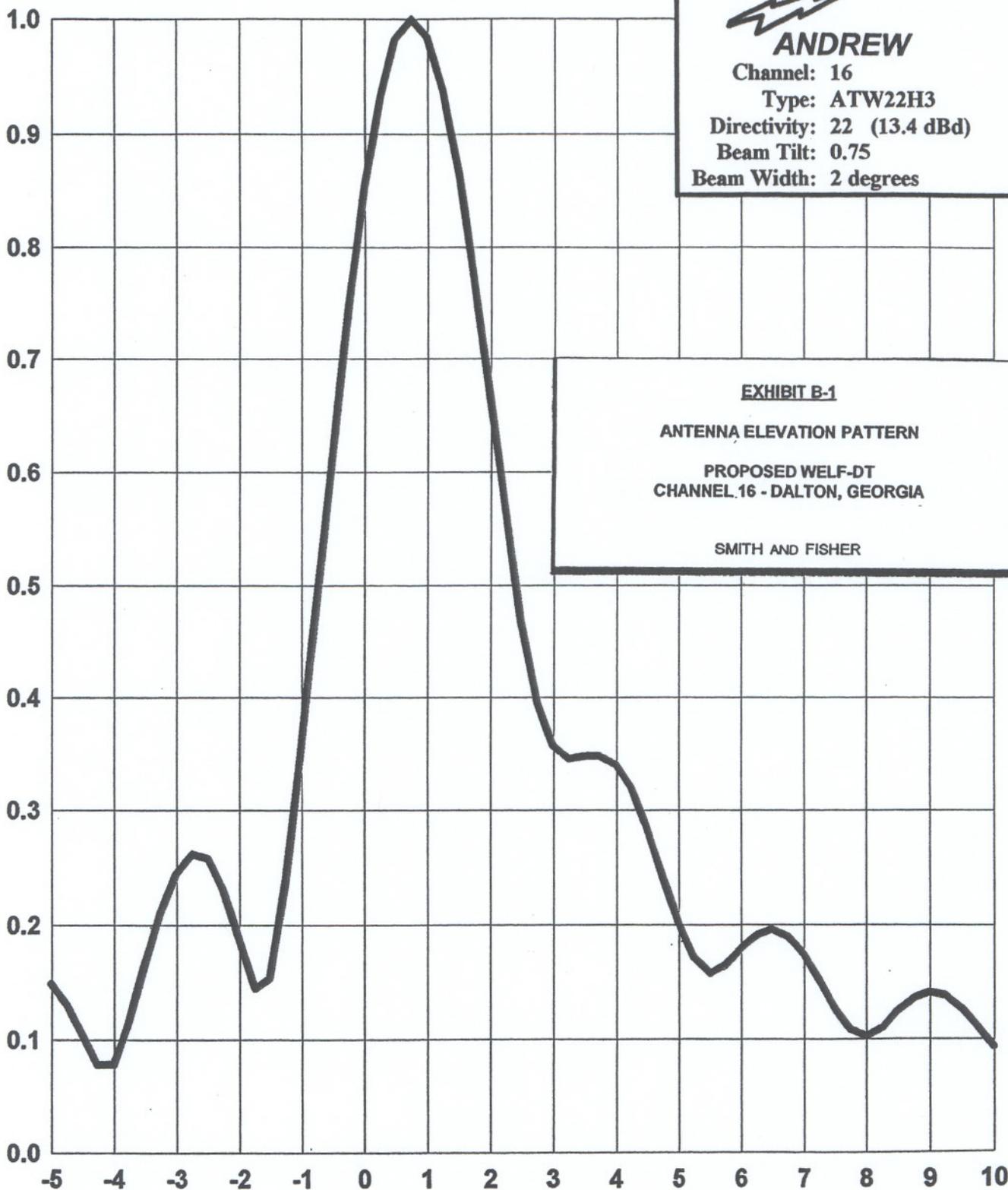


EXHIBIT B-1
ANTENNA ELEVATION PATTERN
PROPOSED WELF-DT
CHANNEL 16 - DALTON, GEORGIA
SMITH AND FISHER

ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

Company:
Site:
Proposal Number:

Date: 12/1/04
Author:

EXHIBIT B-2

ANTENNA AZIMUTH PATTERN

**PROPOSED WELF-DT
CHANNEL 16 - DALTON, GEORGIA**

SMITH AND FISHER



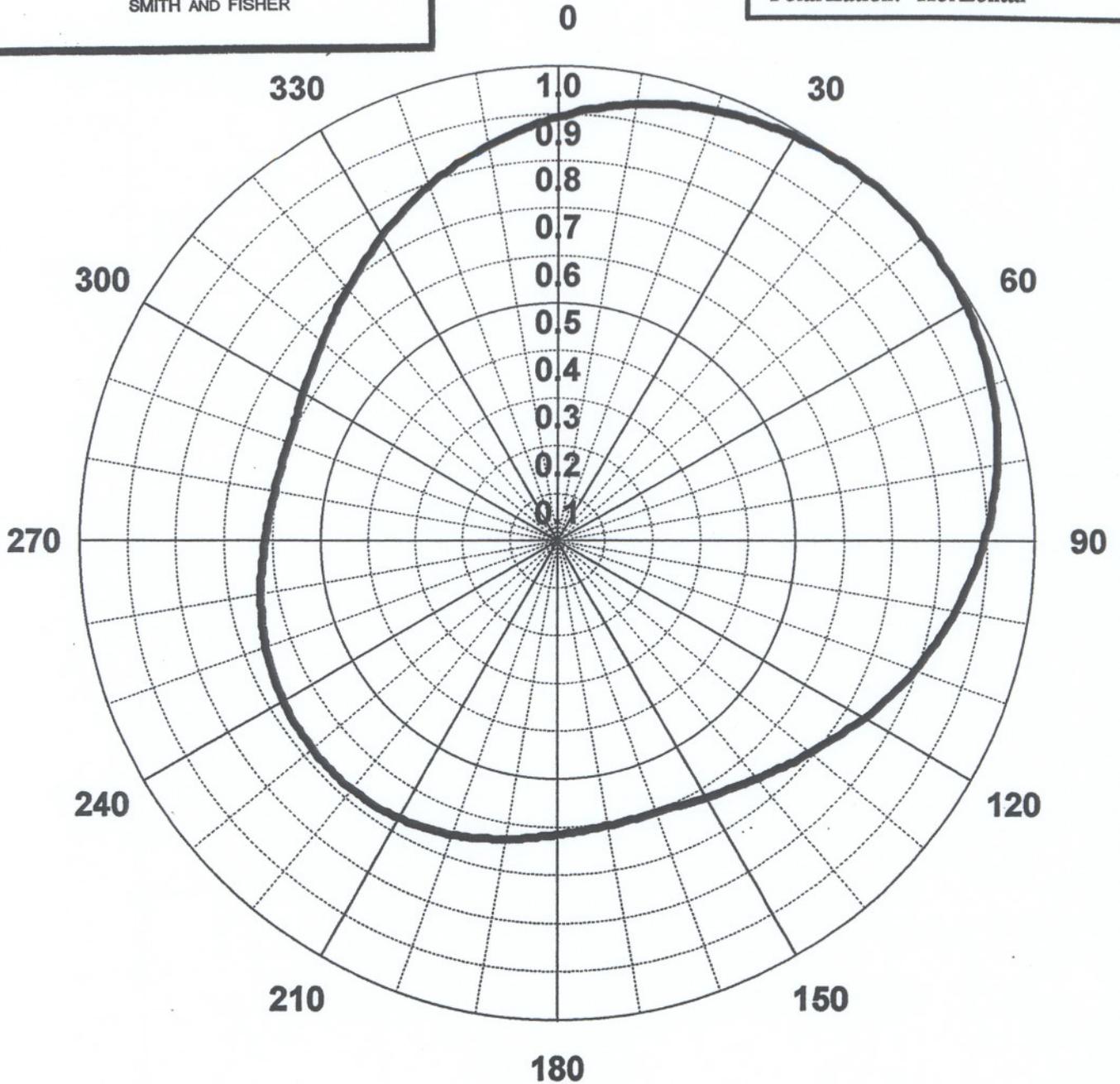
ANDREW

Channel: 16

Type: ATW-OC

Gain: 2 (3.01 dB)

Polarization: Horizontal



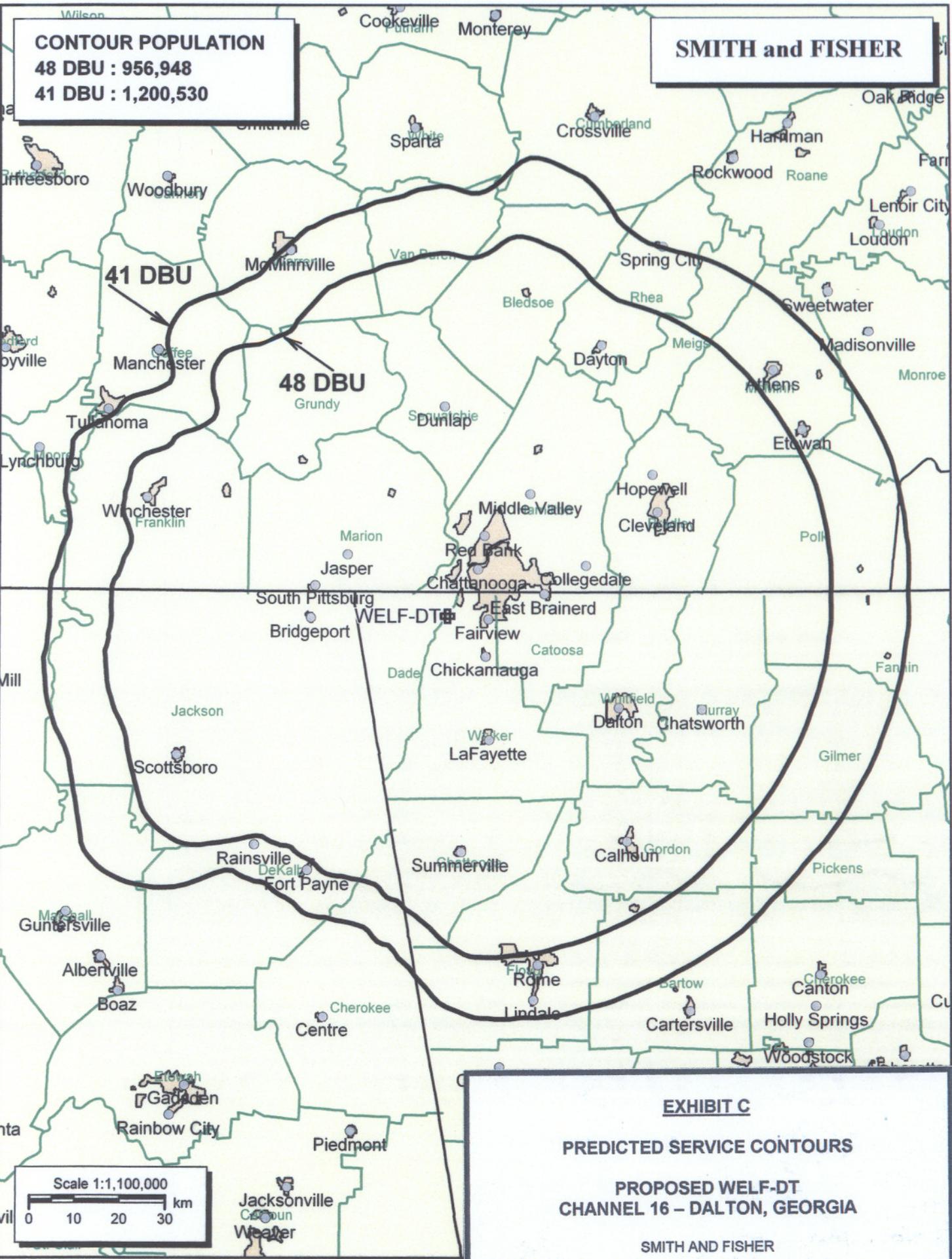
ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

Company:
Site:
Proposal Number:

Date: 12/1/04
Author:

ANTENNA RADIATION VALUES
PROPOSED WELF-DT
CHANNEL 16 - DALTON, GEORGIA

<u>Azimuth</u> (° T)	<u>Relative</u> <u>Field</u>	<u>ERP</u> (dbk)	<u>Azimuth</u> (° T)	<u>Relative</u> <u>Field</u>	<u>ERP</u> (dbk)
0	0.89	20.9	180	0.61	17.6
10	0.94	21.4	190	0.63	17.9
20	0.97	21.6	200	0.65	18.2
30	0.99	21.8	210	0.67	18.4
40	1.00	21.9	220	0.67	18.4
50	1.00	21.9	230	0.67	18.4
60	0.99	21.8	240	0.67	18.4
70	0.97	21.6	250	0.65	18.2
80	0.94	21.4	260	0.63	17.9
90	0.89	20.9	270	0.61	17.6
100	0.85	20.5	280	0.60	17.5
110	0.79	19.9	290	0.60	17.5
120	0.74	19.3	300	0.62	17.7
130	0.69	18.7	310	0.65	18.2
140	0.65	18.2	320	0.69	18.7
150	0.62	17.7	330	0.74	19.3
160	0.60	17.5	340	0.79	19.9
170	0.60	17.5	350	0.85	20.5



CONTOUR POPULATION
48 DBU : 956,948
41 DBU : 1,200,530

SMITH and FISHER

EXHIBIT C
PREDICTED SERVICE CONTOURS
PROPOSED WELF-DT
CHANNEL 16 – DALTON, GEORGIA
 SMITH AND FISHER

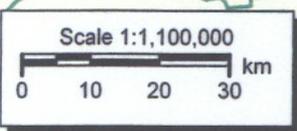


EXHIBIT D

POWER DENSITY CALCULATION

PROPOSED WELF-DT
CHANNEL 16 – DALTON, 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 Dalton facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 155 kw, an antenna radiation center 142 meters above ground, and the elevation pattern of the Andrew antenna, maximum power density two meters above ground of 0.00061 mw/cm^2 is calculated to occur 43 meters northeast of the base of the tower. Since this is only 0.2 percent of the 0.32 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 16 (482-488 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.