

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of TRINITY BROADCASTING NETWORK, licensee of WBUY-DT, Channel 41, in Holly Springs, Mississippi, 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's aperture upon its removal at the end of transition. A corresponding reduction in effective radiated power is also specified.

It is proposed to mount the existing Andrew omnidirectional antenna at the 143-meter level of the existing 152-meter tower on which the antenna is presently mounted. Exhibit B provides elevation pattern data for the licensed 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 combination of the proposed height increase and power decrease results in a predicted 41 dBu service contour which matches that licensed to WBUY-DT. Accordingly, no interference study is included herein. 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 WBUY-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 1038234 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



ELEVATION PATTERN

Type:	ATW22H3H	
Directivity:	Numeric	dBd
Main Lobe:	22.00	13.42
Horizontal:	16.16	12.08
Beam Tilt:	0.75	
Polarization:	Horizontal	
Channel:	41	
Location:		
Note:		

Relative Field

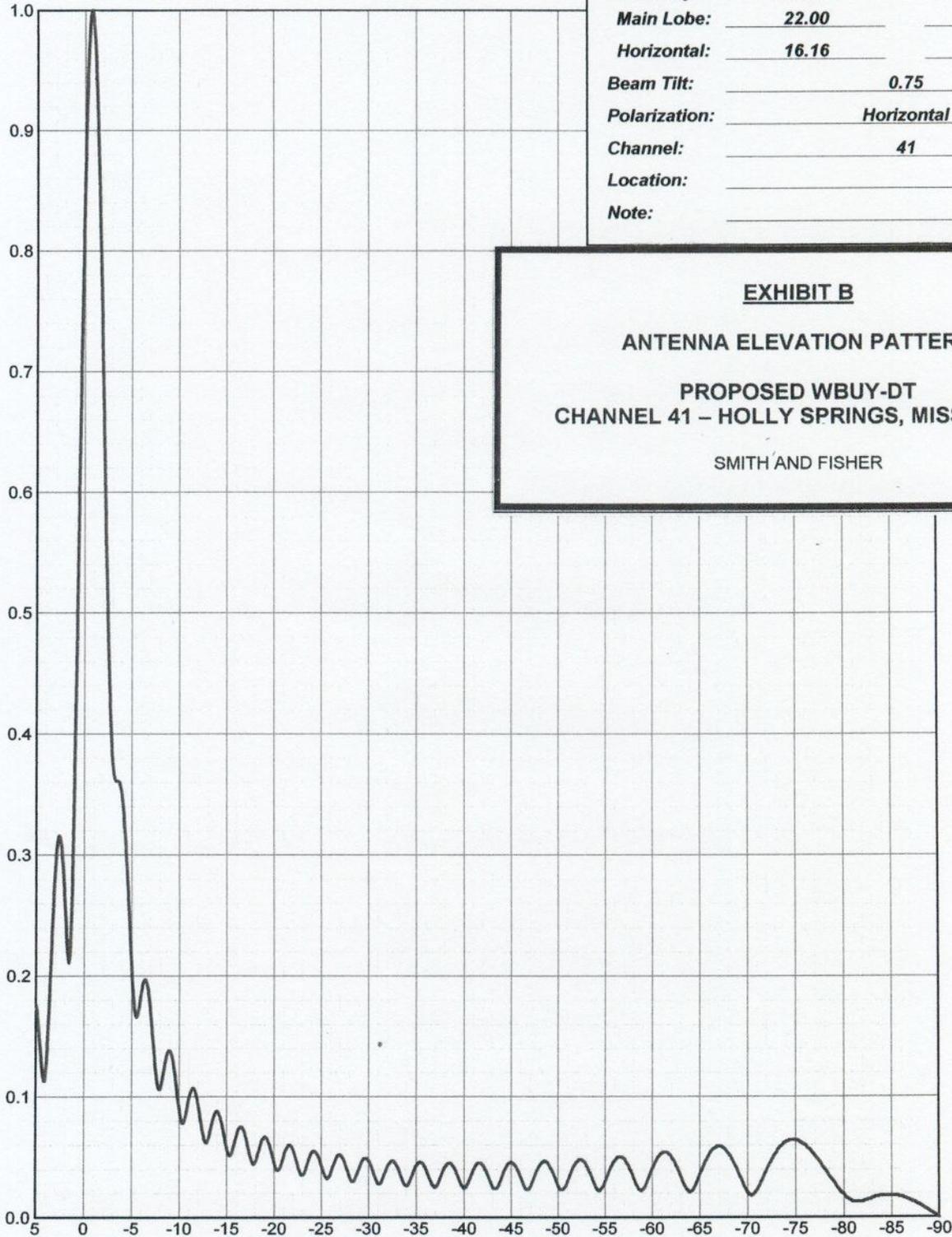


EXHIBIT B

ANTENNA ELEVATION PATTERN
PROPOSED WBUY-DT
CHANNEL 41 – HOLLY SPRINGS, MISSISSIPPI
SMITH AND FISHER



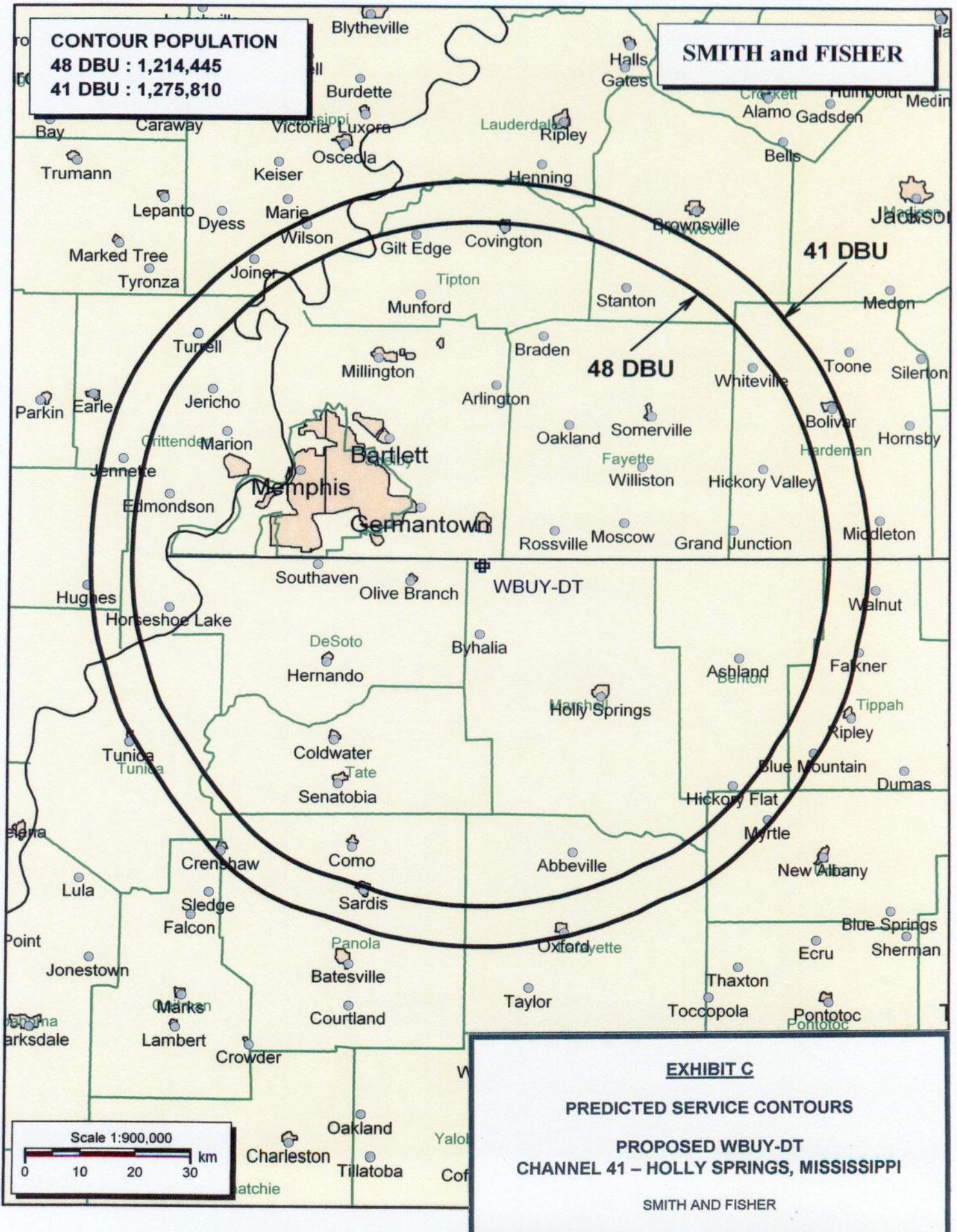
Electronics Research, Inc.
7777 Gardner Road
Chandler, Indiana U.S.A 47610

CONTOUR POPULATION

48 DBU : 1,214,445

41 DBU : 1,275,810

SMITH and FISHER



41 DBU

48 DBU

WBUY-DT

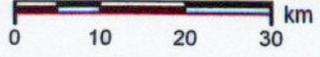
EXHIBIT C

PREDICTED SERVICE CONTOURS

**PROPOSED WBUY-DT
CHANNEL 41 - HOLLY SPRINGS, MISSISSIPPI**

SMITH AND FISHER

Scale 1:900,000



POWER DENSITY CALCULATION

PROPOSED WBUY-DT
CHANNEL 41 – HOLLY SPRINGS, MISSISSIPPI

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Holly Springs facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 345 kw, an antenna radiation center 143 meters above ground, and the elevation pattern of the Andrew antenna, maximum power density two meters above ground of 0.0022 mw/cm^2 is calculated to occur 38 meters from the base of the tower. Since this is only 0.5 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.