Huntsville TV, LLC
WHDF-DT STA Extension

Exhibit In Support of STA Extension

Huntsville TV, L.L.C. ("WHDF"), permittee of Digital Television Station WHDF-DT, Florence, Alabama, requests extension of special temporary authority ("STA") to operate at reduced power. Huntsville TV's STA was last extended on March 23, 2005 for a term expiring on September 2, 2005 (FCC File No. BEDSTA-20050225ABY).

This STA extension request proposes continued operation consistent with that permitted by WHDF's construction permit (Permit File No. BMPCDT-20040519ABN), except that the station's STA operation is from a temporary tower location, the ERP is reduced to 2.6 kW, the HAAT is reduced to 99 meters, and the RCAMSL is reduced 263 meters.

WHDF herein re-submits the engineering statement prepared by consulting engineer Kevin T. Fisher in connection with WHDF's original STA request. As demonstrated by the engineering statement, WHDF-DT, operating at reduced power, complies with the minimum initial DTV facilities requirements as specified by the Commission's November 2001 *Memorandum Opinion and Order on Reconsideration* in the Matter of Review of the Commission's Rules and Policies Affecting the Conversion To Digital Television, FCC 01-330, 16 FCC Rcd 20594 (Rel. Nov. 15, 2001) ("MO&O").

Because grant of the instant request for extension of STA would allow WHDF to continue to provide digital television service in conformity with the Commission's minimum initial facilities requirements, grant of the instant extension request would be in the public interest.

*****

EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of the licensee of WHDF(TV) in Florence, Alabama, and permittee of its paired digital television facility that will operate on Channel 14 as WHDF-DT (BPCDT-19991029ADV), in support of its request for Special Temporary Authority to operate WHDF-DT with reduced effective radiated power at the studio site.

It is proposed to mount a standard Andrew omnidirectional antenna at the 84-meter level of an existing 107-meter communication's tower. Exhibit B provides antenna pattern data and proposed operating parameters are tabulated in Exhibit C. Exhibit D is a map showing the authorized and proposed 41 dbμ digital service contours. It shows that the proposed STA service contour is located entirely within that authorized to WHDF-DT. Exhibit E demonstrates that the requisite 48 dbμ service will be provided to the community of license. In all respects, the proposed facility complies with the Commission's Rules.

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 has issued Antenna Structure Registration Number 1210137 to this tower.

We have studied the RF transmissions of this facility with regard to their environmental effect. Employing the methods set forth in *OET Bulletin No. 65* and considering the vertical pattern of the proposed Andrew antenna, we calculate maximum power density two meters above ground from the proposed facility to be 0.00013 mw/cm^2, at locations 45 meters

EXHIBIT A

from the tower base. This value is but 0.04 percent of the 0.31 mw/cm^2 reference at this frequency (470-476 MHz) for uncontrolled areas (areas with access to the public). Further, the owners of WHDF-DT will take whatever preventive 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 RF energy. On this basis, a grant of this proposal would clearly constitute a minor environmental action with respect to public and occupational exposure to nonionizing electromagnetic radiation.

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.

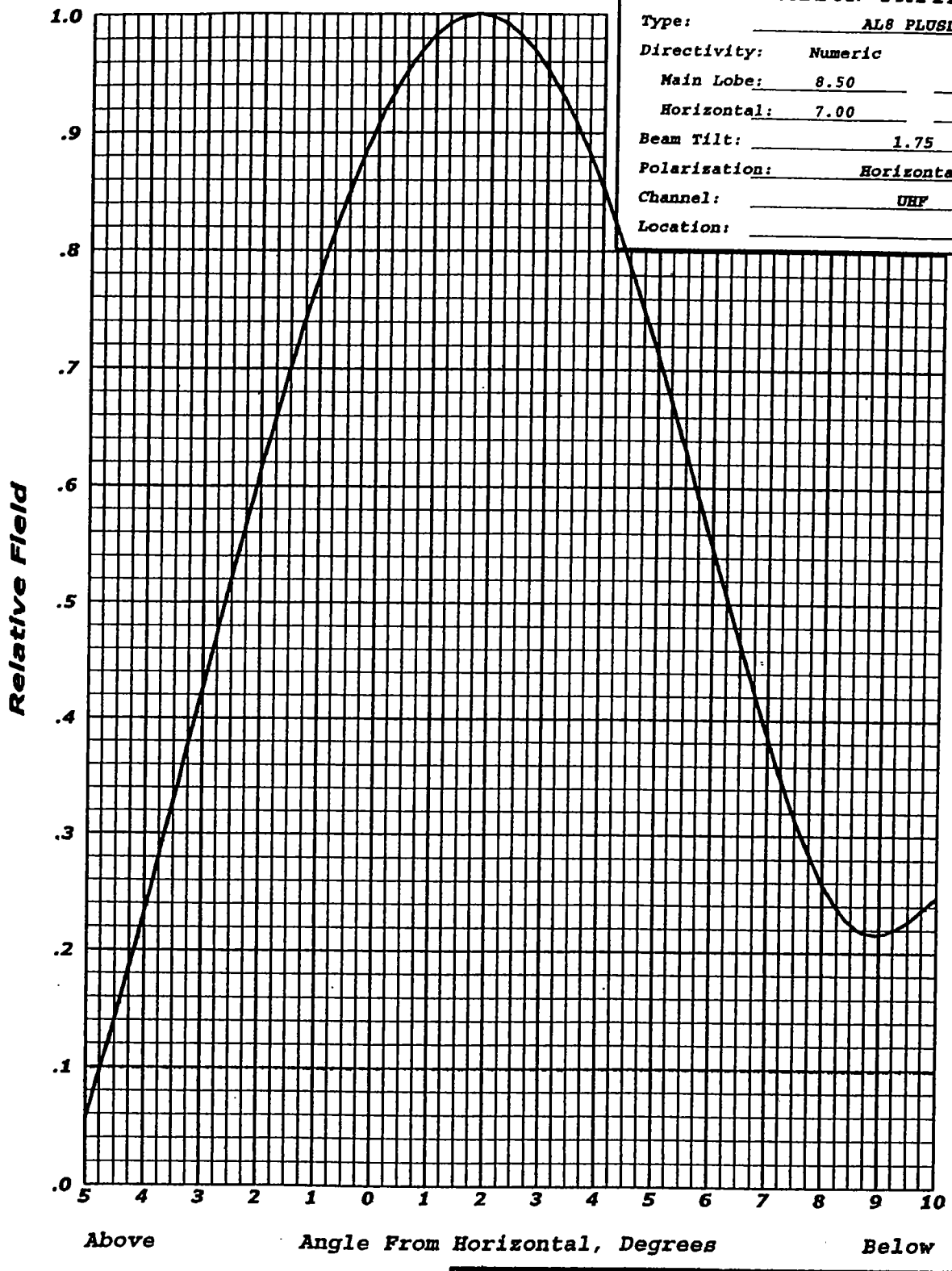
KEVIN T. FISHER

April 14, 2004

ANDREW

ELEVATION PATTERN

Type:	AL8 PLUSL7	
Directivity:	Numeric	dBd
Main Lobe:	8.50	(9.29)
Horizontal:	7.00	(8.45)
Beam Tilt:	1.75	
Polarization:	Horizontal	
Channel:	UHF	
Location:		



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

EXHIBIT B-1

ANTENNA ELEVATION PATTERN

PROPOSED STA FACILITY
WHDF-DT
CHANNEL 14 - FLORENCE, ALABAMA

SMITH AND FISHER

EXHIBIT C-1

PROPOSED OPERATING PARAMETERS

PROPOSED STA FACILITY
WHDF-DT
CHANNEL 14 – FLORENCE, ALABAMA

ERP	2.6 kw
Site Elevation AMSL	179 meters
Overall Structure Height AGL	107 meters
Radiation Center Height AGL	84 meters
Radiation Center Height AMSL	263 meters
Radiation Center Height AAT	99 meters
Antenna Structure Registration Number	1210137
Antenna Type	Omnidirectional
Geographic Coordinates	34-49-08 N 87-41-46 W

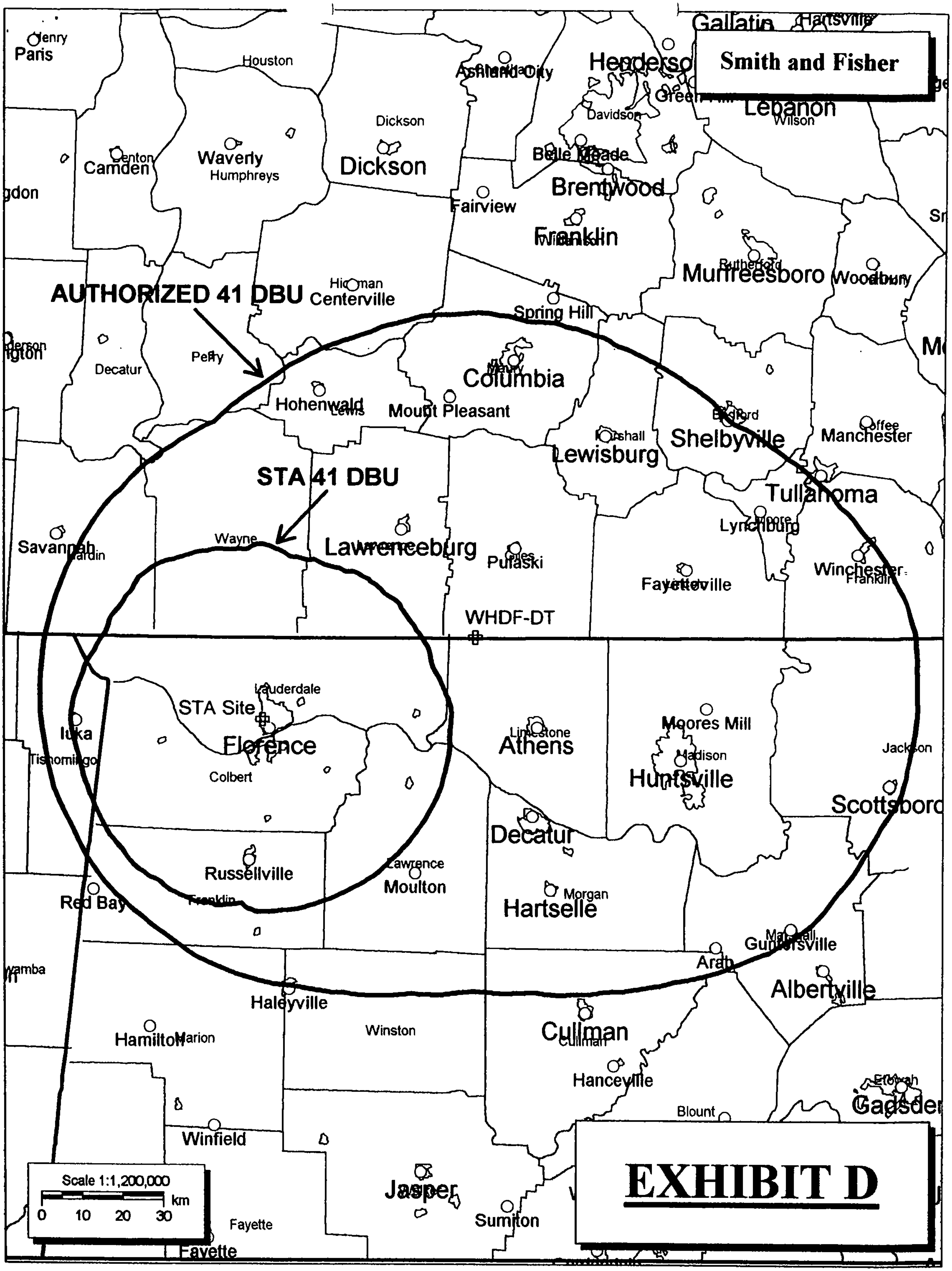
EXHIBIT C-2

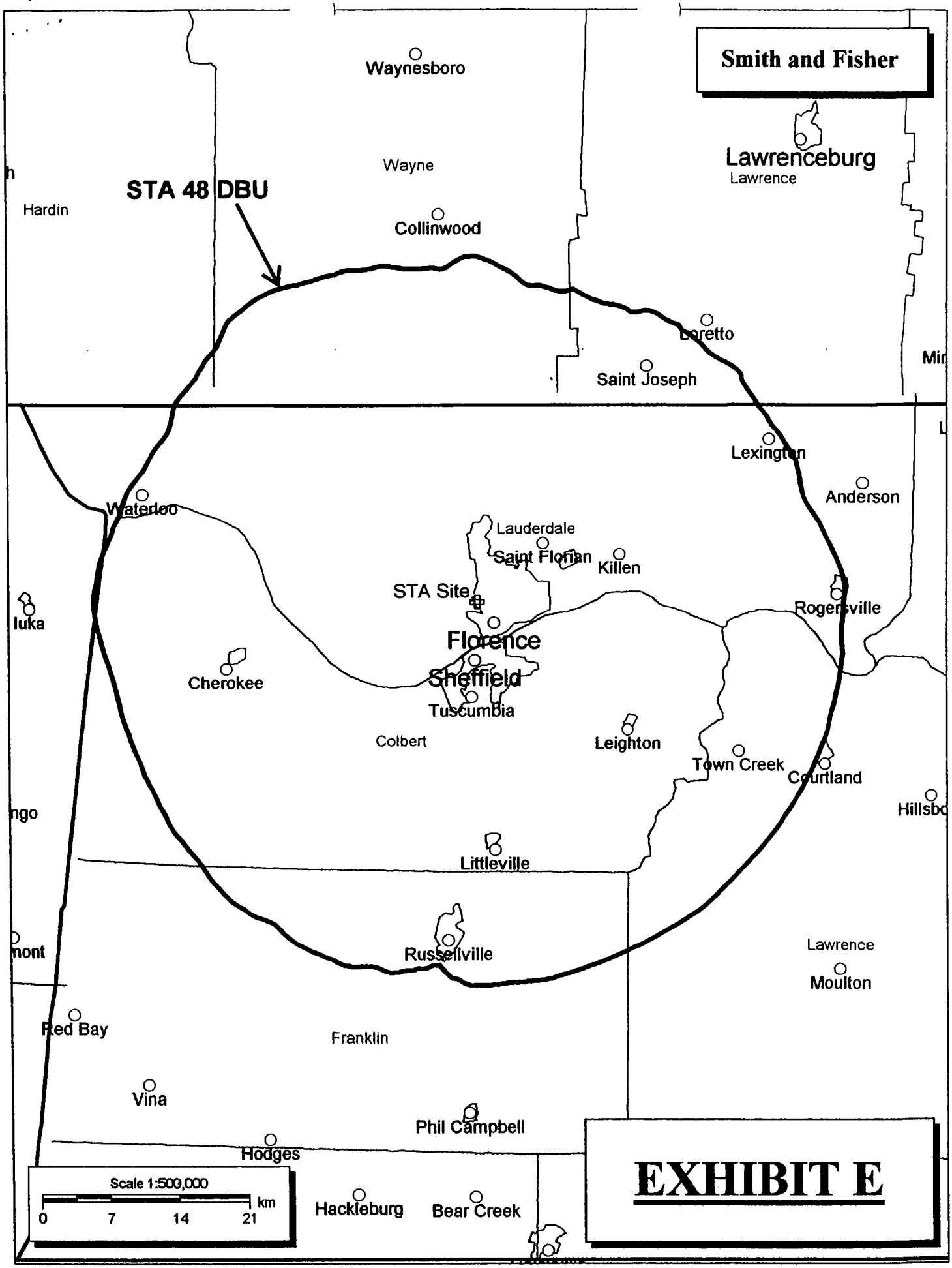
PROPOSED OPERATING PARAMETERS

PROPOSED STA FACILITY
WHDF-DT
CHANNEL 14 – FLORENCE, ALABAMA

Transmitter power output	0.25 kw
Transmission line loss	0.7 kw
Input to antenna	0.18 kw
Antenna gain (maximum)	14.45
Effective radiated power (maximum)	2.6 kw

Transmitter make and model:	Type-accepted
Rated Power:	250 watts
Transmission line	
Make and model:	Andrew HJ7-50A
Size:	1-5/8"
Type:	Air heliax
Length:	300 feet
Antenna	
Make and model:	Andrew AL8-14-PL
Type:	Omnidirectional
RCAGL	275 feet


Smith and Fisher
AUTHORIZED 41 DBU
STA 41 DBU
WHDF-DT
STA Site
Paris
Houston
Waverly
Humphreys
Camden
Dickson
Fairview
Brentwood
Franklin
Murfreesboro
Centerville
Spring Hill
Decatur
Perry
Hohenwald
Mount Pleasant
Columbia
Lewisburg
Shelbyville
Manchester
Tullahoma
Wayne
Lawrenceburg
Pulaski
Fayetteville
Winchester
Savannah
Lauderdale
Florence
Colbert
Iuka
Athens
Moores Mill
Huntsville
Madison
Jackson
Scottsboro
Decatur
Russellville
Moulton
Red Bay
Hartselle
Morgan
Arab
Albertville
Haleyville
Winston
Hamilton
Marion
Cullman
Hanceville
Blount
Winfield
Jasper
Sumiton
Fayette
Scale 1:1,200,000
0 10 20 30 km
EXHIBIT D


Smith and Fisher
Waynesboro
Wayne
Lawrenceburg
Lawrence
STA 48 DBU
Hardin
Collinwood
Loretto
Saint Joseph
Lexington
Anderson
Waterloo
Lauderdale
Saint Florian
Killen
STA Site
Iuka
Florence
Rogersville
Cherokee
Sheffield
Tuscumbia
Colbert
Leighton
Town Creek
Courtland
Littleville
Russellville
Lawrence
Moulton
Red Bay
Franklin
Vina
Phil Campbell
Hodges
Hackleburg
Bear Creek
Scale 1:500,000
km
0
7
14
21
EXHIBIT E