EXHIBIT A

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of FOX TELEVISION STATIONS, INC., licensee of KRIV-DT, Channel 27 in Houston, Texas, in support of its Application for Construction Permit to operate an auxiliary facility on a different tower in the Houston antenna farm.

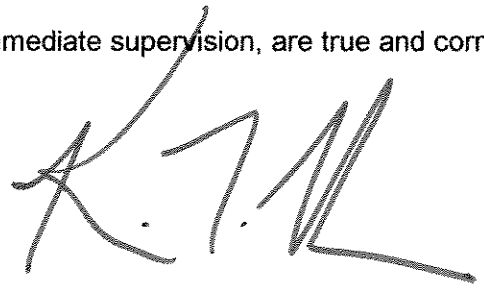
It is proposed to mount a Dielectric directional antenna at the 532-meter level of an existing 602-meter communications tower. Elevation and azimuth pattern data for the antenna are provided in Exhibit B. Exhibit C is a map upon which the predicted service contours of the proposed auxiliary and licensed facilities are plotted. As shown, the proposed auxiliary 41 dBu service contour is completely contained within that authorized to KRIV-DT. A power density calculation is provided in Exhibit D.

It is important to note that, because this is an auxiliary application, the Commission's city-grade coverage requirements and interference Rules do not pertain. In addition, 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 proposed site. However, if such should occur, the owner of the station recognizes its obligation to take whatever corrective actions are necessary.

Since no change in the overall height or location of the existing tower is specified herein, the FAA has not been notified of this application. The FCC issued Antenna Structure Registration Number 1059622 to this tower.

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

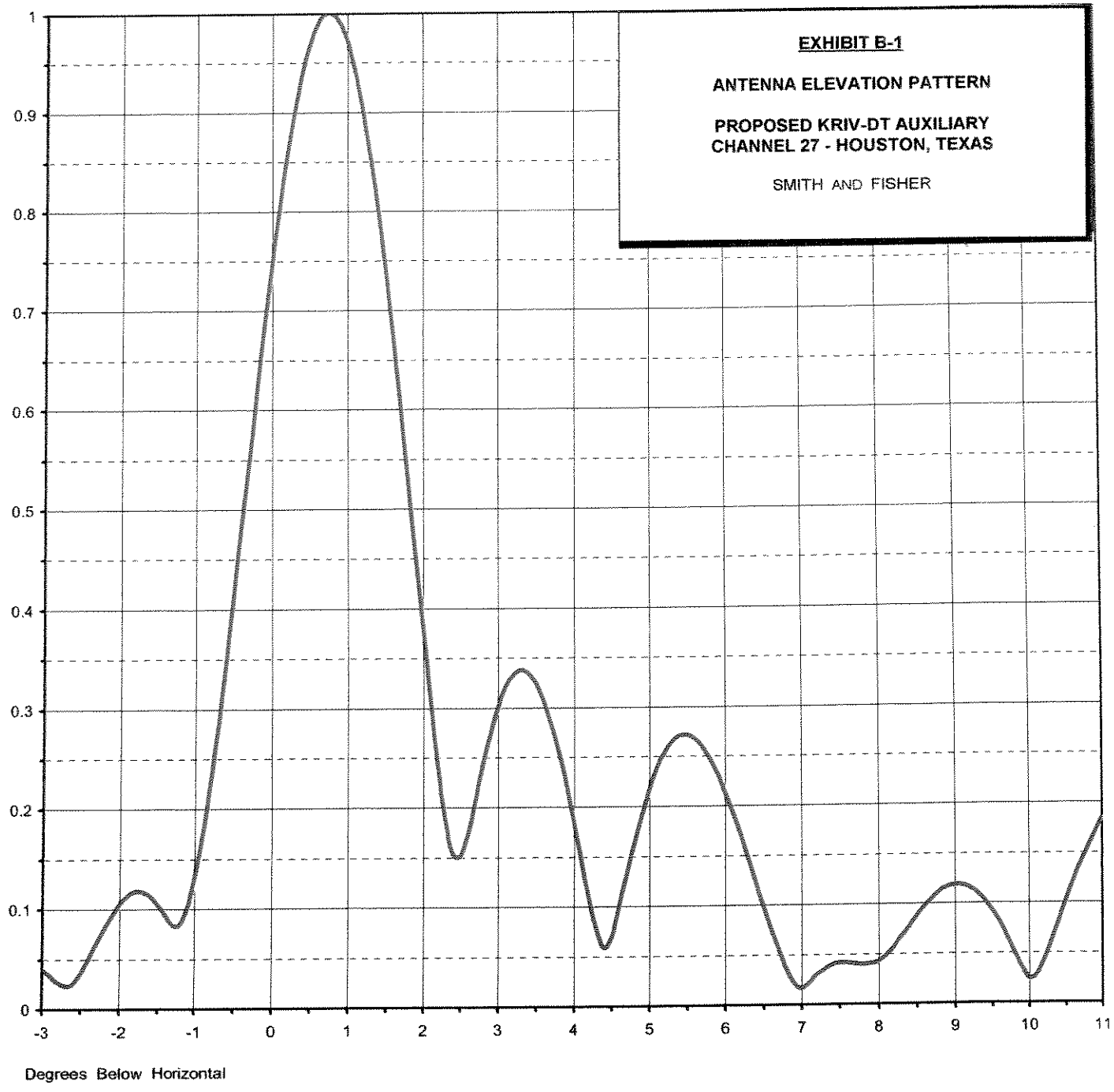
August 25, 2005

Dielectric

Proposal Number	DCA-10875	Revision:	2
Date	20-Jul-05		
Call Letters		Channel	
Location	Houston, TX		
Customer			
Antenna Type	TFU-24WB-R WC		

ELEVATION PATTERN

RMS Gain at Main Lobe	22.09 (13.44 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	12.20 (10.86 dB)	Frequency	
Calculated / Measured	Calculated	Drawing #	24H221075



Dielectric

Proposal Number	**DCA-10875**	Revision	2
Date	**20 Jul 2005**		
Call Letters		Channel	
Location	**Houston, TX**		
Customer			
Antenna Type	**TFU-24WB-R WC**		

AZIMUTH PATTERN

Gain	**2.50 (3.98 dB)**	Frequency	
Calculated / Measured	**Calculated**	Drawing #	

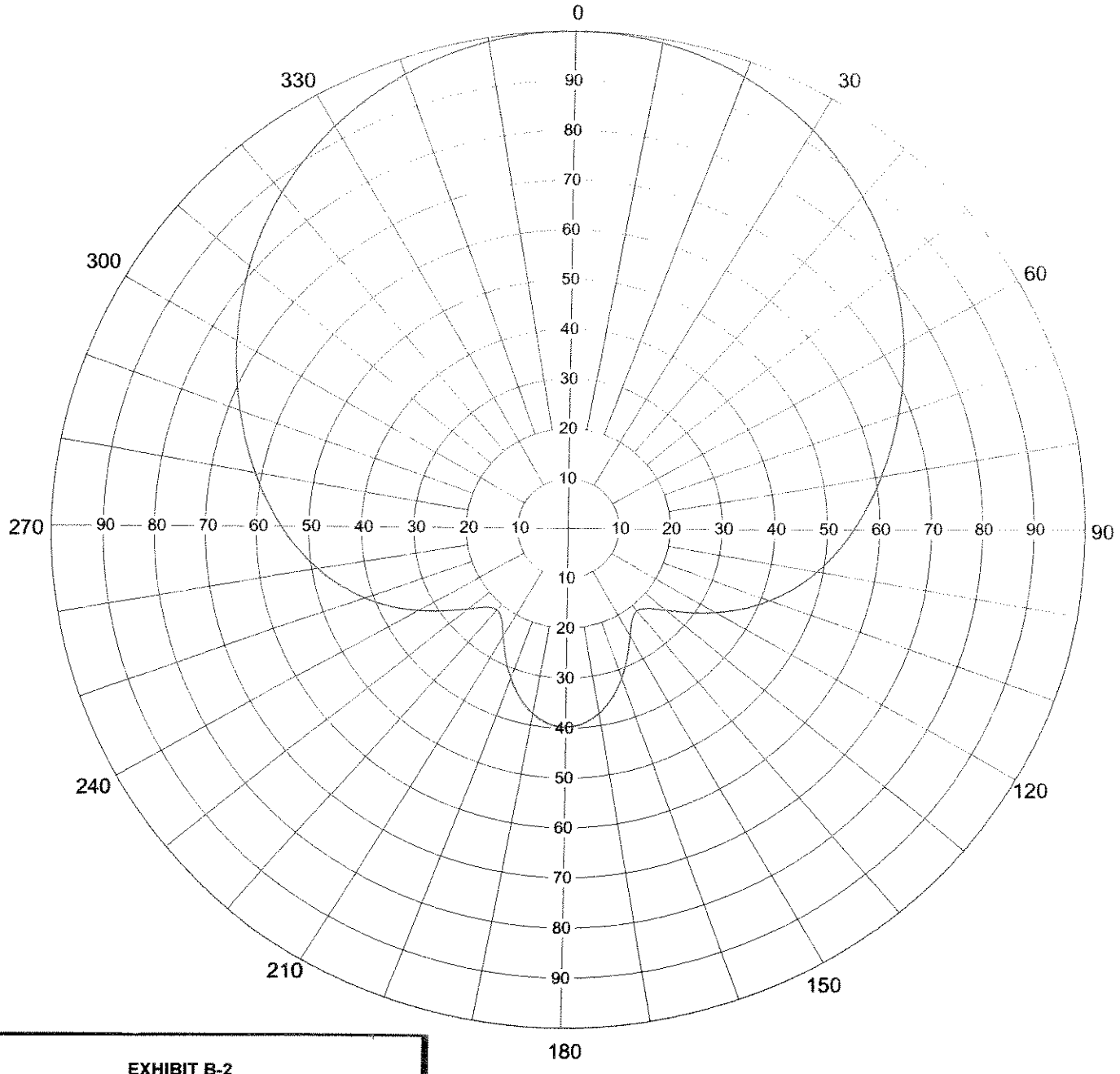


EXHIBIT B-2

ANTENNA AZIMUTH PATTERN

PROPOSED KRIV-DT AUXILIARY CHANNEL 27 - HOUSTON, TEXAS

SMITH AND FISHER

Note: Antenna will be mounted such that 0° on graph will be oriented at 35° T.

EXHIBIT B-3

ANTENNA RADIATION VALUES

PROPOSED KRIV-DT AUXILIARY
CHANNEL 27 – HOUSTON, TEXAS

Azimuth (° T)	Relative Field	ERP (dbk)	Azimuth (° T)	Relative Field	ERP (dbk)
0	1.000	21.8	180	0.398	13.8
10	0.992	21.7	190	0.376	13.3
20	0.967	21.5	200	0.318	11.8
30	0.927	21.1	210	0.248	9.7
40	0.874	20.6	220	0.214	8.4
50	0.811	20.0	230	0.254	9.9
60	0.743	19.2	240	0.334	12.3
70	0.675	18.4	250	0.417	14.2
80	0.612	17.5	260	0.488	15.6
90	0.551	16.6	270	0.551	16.6
100	0.488	15.6	280	0.612	17.5
110	0.416	14.2	290	0.675	18.4
120	0.334	12.3	300	0.743	19.2
130	0.254	9.9	310	0.811	20.0
140	0.214	8.4	320	0.874	20.6
150	0.248	9.7	330	0.927	21.1
160	0.318	11.8	340	0.967	21.5
170	0.376	13.3	350	0.992	21.7

Note: Antenna will be mounted such that 0° in tabulation will be oriented at 35° T.

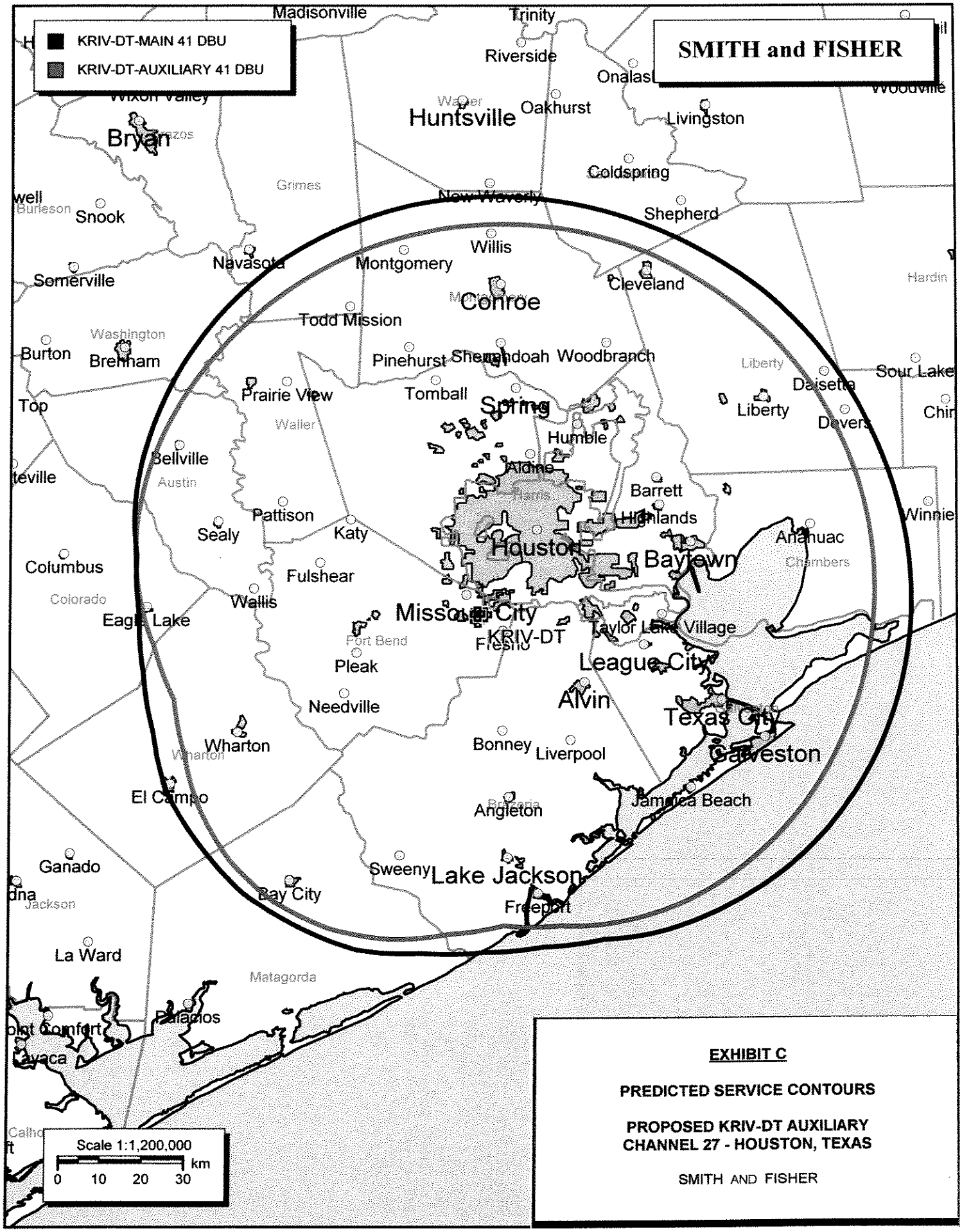

KRIV-DT-MAIN 41 DBU
KRIV-DT-AUXILIARY 41 DBU
SMITH and FISHER
Madisonville
Trinity
Riverside
Onalaska
Woodville
Huntsville
Oakhurst
Livingston
Bryan
Coldspring
Grimes
New Waverly
Shepherd
Snook
Willis
Navasota
Montgomery
Somerville
Cleveland
Hardin
Conroe
Todd Mission
Washington
Burton
Brenham
Pinehurst
Shenandoah
Woodbranch
Liberty
Sour Lake
Daisetta
Prairie View
Tomball
Spring
Top
Waller
Liberty
Dayton
Humble
Bellville
Aldine
Austin
Barrett
Pattison
Highlands
Winnie
Sealy
Katy
Houston
Anahuac
Columbus
Baytown
Chambers
Fulshear
Colorado
Wallis
Missouri City
Eagle Lake
KRIV-DT
Taylor Lake Village
Fort Bend
Fresno
Pleak
League City
Needville
Alvin
Texas City
Wharton
Bonney
Liverpool
Galveston
El Campo
Angleton
Jamaica Beach
Ganado
Sweeny
Lake Jackson
Bay City
Jackson
Freeport
La Ward
Matagorda
Palacios
Port Comfort
Victoria
Scale 1:1,200,000
km
0 10 20 30
EXHIBIT C
PREDICTED SERVICE CONTOURS
PROPOSED KRIV-DT AUXILIARY
CHANNEL 27 - HOUSTON, TEXAS
SMITH AND FISHER

EXHIBIT D

POWER DENSITY CALCULATION

PROPOSED KRIV-DT AUXILIARY
CHANNEL 27 – HOUSTON, TEXAS

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Houston facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 150 kw, an effective antenna height of 532 meters above ground, and the elevation pattern of the Dielectric antenna, maximum power density two meters above ground of 0.00035 mw/cm^2 is calculated to occur 270 meters northeast of the base of the tower. Since this is less than 0.1 percent of the 0.37 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 27 (548-554 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.