

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of IGLESIA MANMIN TODA LA CREACION USA INC., licensee of digital Low Power Television Station KHFV-LD, Channel 4 in Dallas, Texas, in support of this request for Special Temporary Authority (STA) to specify a change in transmitter site location, effective radiated power, and effective antenna height.

It is proposed to mount a directional 1-bay horizontally-polarized Yagi antenna at the 21.3-meter level of an existing 194.2-meter communications tower located approximately 25.7 kilometers south of the licensed KHFV-LD transmitter site. The proposed effective radiated power for the facility is 0.48 kW in the horizontal plane. Exhibit B is a map upon which the predicted 43 dBu STA service contour is plotted. Exhibit C is a map comparing the service contour of the licensed KHFV-LD facility with that proposed herein. As shown, the proposed STA contour overlaps that licensed to the station, as required by FCC Rules. Azimuth pattern data for the proposed SAM-137 antenna are provided in Exhibit D.

Exhibit E is a summary report from a TVStudy interference analysis for the proposed facility. Our study employed a cell size of 1.0 kilometer and increment spacing of 1.0 kilometer. Further the applicant proposes use of a simple mask filter. The results indicate that the proposed KZHO-LD STA facility meets the Commission's interference requirements to all present and authorized full-power and low-power co-channel and adjacent-channel television facilities. It is important to note that, according to the TVStudy results, the proposed KZHO-LD STA facility will receive interference to 88.55% of its service population from a pending

EXHIBIT A

application (KWDA-LD, Channel 4 displacement filing LMS-0000198697). Interference from that proposal is accepted by the owner of KHFW-LD and, thus, can be ignored.

A detailed power density calculation is provided in Exhibit F.

Since no change in the overall height or location of the existing tower is proposed herein, the Federal Aviation Administration has not been notified of this application. In addition, the Federal Communications Commission has assigned Antenna Structure Registration Number 1053688 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.

A handwritten signature in blue ink, appearing to read "K. T. Fisher". The signature is stylized with a large initial "K" and a long horizontal stroke at the end.

KEVIN T. FISHER

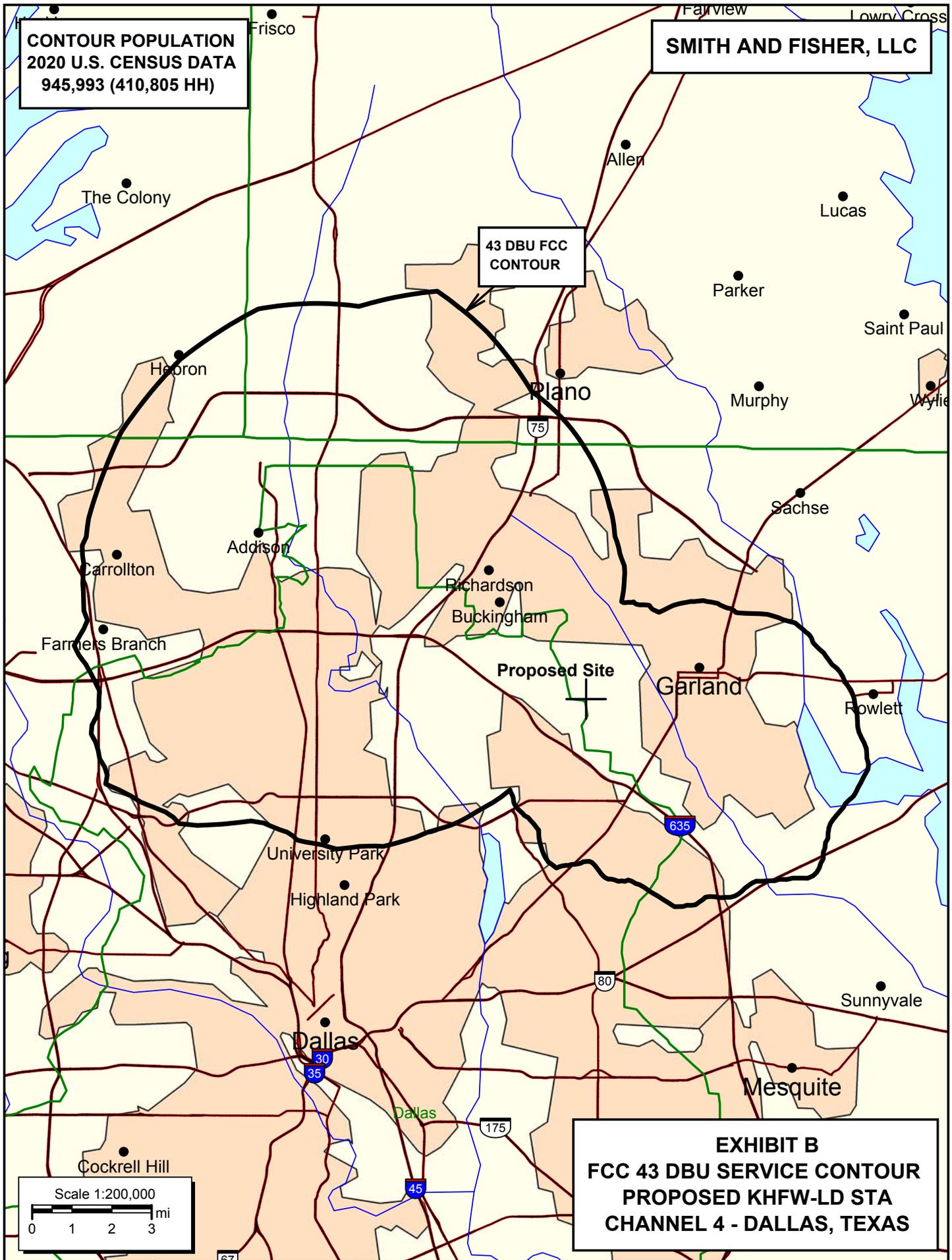
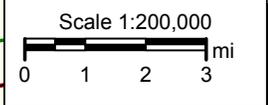
November 30, 2022

**CONTOUR POPULATION
2020 U.S. CENSUS DATA
945,993 (410,805 HH)**

SMITH AND FISHER, LLC

**43 DBU FCC
CONTOUR**

**EXHIBIT B
FCC 43 DBU SERVICE CONTOUR
PROPOSED KHFV-LD STA
CHANNEL 4 - DALLAS, TEXAS**



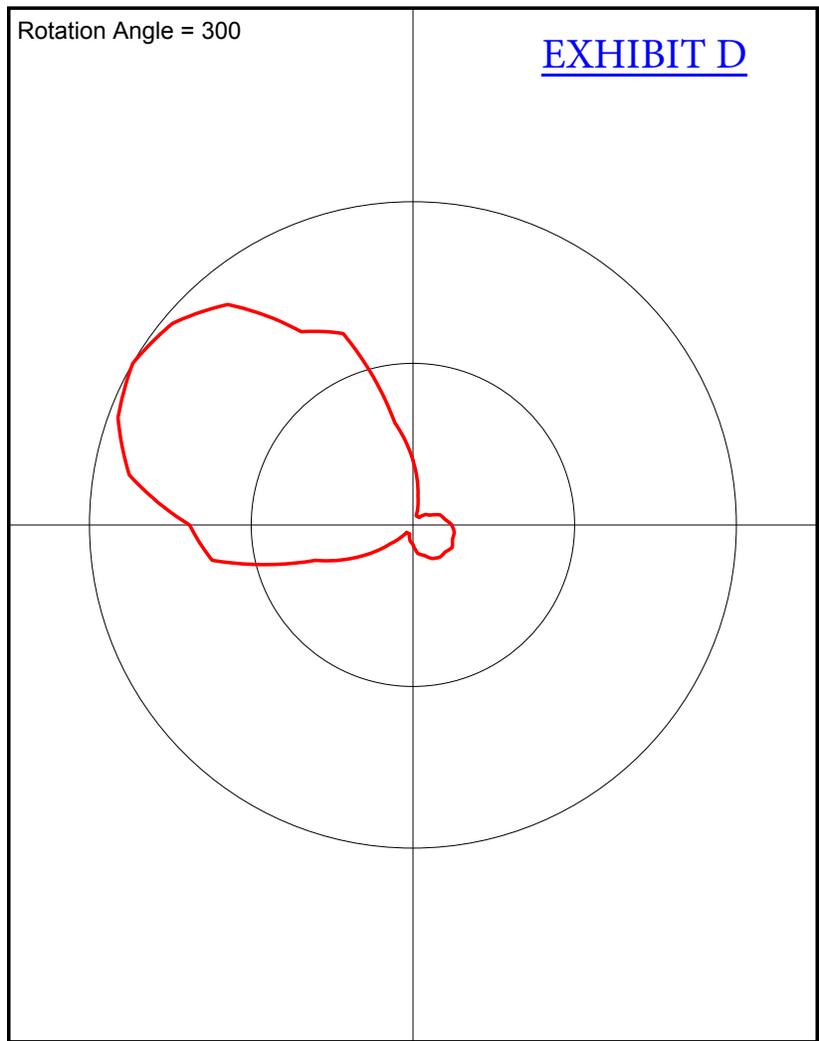
Antenna Pattern

Pre-Rotation Antenna Pattern....

Rotation Angle = 300

EXHIBIT D

Azimuth (deg)	Relative Field
0.0	1.0
10.0	0.97
20.0	0.89
30.0	0.69
40.0	0.63
50.0	0.32
60.0	0.2
70.0	0.09
80.0	0.03
90.0	0.03
100.0	0.03
110.0	0.05
120.0	0.06
130.0	0.09
140.0	0.1
150.0	0.12
160.0	0.13
170.0	0.13
180.0	0.14
190.0	0.13
200.0	0.13
210.0	0.12
220.0	0.1
230.0	0.09
240.0	0.06
250.0	0.05
260.0	0.03
270.0	0.03
280.0	0.03
290.0	0.09
300.0	0.2
310.0	0.32
320.0	0.63
330.0	0.69
340.0	0.89
350.0	0.97



TVSTUDY INTERFERENCE ANALYSIS RESULTS
PROPOSED KHFW-LD STA
CHANNEL 4 – DALLAS, TEXAS

Study created: 2022.11.30 15:55:48

Study build station data: LMS TV 2022-11-15

Proposal: KHFW-LD D4 LD APP DALLAS, TX

File number: BLANK0000202821

Facility ID: 130952

Station data: User record

Record ID: 48

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KODF-LD	D3	LD	LIC	Dallas, TX	BLANK0000113889	43.7 km
Yes	KWDA-LD	D4	LD	CP	DALLAS, TX	BLANK0000124608	43.7
Yes	KWDA-LD	D4	LD	APP	DALLAS, TX	BLANK0000198697	43.7
No	KAHO-LD	D4	LD	LIC	WOODVILLE, TX	BLANK0000005451	363.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D4

Mask: Simple

Latitude: 32 54 4.00 N (NAD83)

Longitude: 96 41 15.00 W

Height AMSL: 207.8 m

HAAT: 0.0 m

Peak ERP: 0.480 kW

Antenna: SAM-137 300.0 deg

Elev Pattn: Generic

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.019 kW	22.3 m	10.1 km
45.0	0.000	45.6	5.5
90.0	0.007	57.7	10.8
135.0	0.008	49.4	10.4
180.0	0.002	44.1	6.5
225.0	0.002	45.8	6.7
270.0	0.229	35.6	19.9
315.0	0.415	14.9	21.4

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 39 m

Distance to Canadian border: 1558.3 km

Distance to Mexican border: 563.6 km

Conditions at FCC monitoring station: Kingsville TX

Bearing: 191.0 degrees Distance: 617.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 318.9 degrees Distance: 1105.8 km

Study cell size: 1.00 km

Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

---- Below is IX received by proposal BLANK0000202821 ----

Proposal receives 89.55% interference from scenario 1

**MX with BLANK0000198697 APP scenario 2, 89.55% interference received

POWER DENSITY CALCULATION

PROPOSED KHFW-LD STA
CHANNEL 4 – DALLAS, 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 Dallas facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 0.48 kW (H-only), an antenna radiation center 21.3 meters above ground, and assuming a vertical relative field value of 40% at the steeper elevation angles for the proposed SAM-137 antenna, maximum power density two meters above ground of 0.0069 mW/cm² is calculated to occur near the southeast base of the tower. Since this value is only 3.4 percent of the 0.20 mW/cm² reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 4 (66-72 MHz), a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing 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 non-ionizing radiation.