

EXHIBIT A

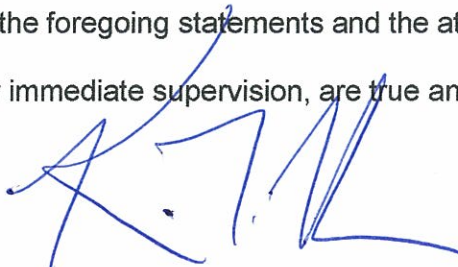
ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of D.T.V. LLC, licensee of Low Power Television Station KSEX-LP, Channel 57 in Dallas, Texas, in support of this Application for Construction Permit to specify digital operation on Channel 20 from the licensed KSEX-LP site. This proposal is being submitted in response to the Commission's reclamation of Channel 57 spectrum for auction, thereby placing this LPTV station in a displacement situation.

It is proposed to mount a standard Andrew (ERI) directional antenna at the 244-meter level of the existing 506-meter communications tower. Exhibit B is a map upon which the predicted service contours are plotted. It is important to note that the newly proposed 51 dBu contour encompasses a significant portion of the Grade A contour that obtains from the licensed KSEX-LP facility. Operating parameters for the proposed facility are tabulated in Exhibit C. An interference study is provided in Exhibit D, and it is important to note that the study utilized a cell size of 1-kilometer and an increment spacing of 0.1-kilometer. A power density calculation follows as Exhibit E.

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 issued Antenna Structure Registration Number 1045531 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

January 19, 2010

## CONTOUR POPULATION

51 DBU : 4,212,086

41 DBU : 4,722,568

Smith and Fisher

41 DBU

51 DBU

**EXHIBIT B**

Scale 1:800,000

0 10 20 30 km

## PROPOSED OPERATING PARAMETERS

PROPOSED KSEX-LD  
CHANNEL 20 – DALLAS, TEXAS

Transmitter Power Output:	1.4 kw
Transmission Line Efficiency:	49.7%
Antenna Power Gain – Toward Horizon:	21.36
Antenna Power Gain – Main Lobe:	21.36
Effective Radiated Power – Toward Horizon:	15.0 kw
Effective Radiated Power – Main Lobe:	15.0 kw
Transmitter Make and Model:	Type-accepted
Transmission Line Make and Model:	Andrew HJ8-50B
Size and Type:	3" air heliax
Length:	825 feet
Antenna Make and Model:	ERI ALP12L2-HSWR
Orientation	10 degrees true
Beam Tilt	0.5 degrees
Radiation Center Above Ground:	244 meters
Radiation Center Above Mean Sea Level:	488 meters

LONGLEY-RICE INTERFERENCE STUDIES  
PROPOSED KSEX-LD  
CHANNEL 20 – DALLAS, TEXAS

We conducted a detailed V-Soft Communications “SunDTV” interference study using the Longley-Rice methodology contained in the Commission’s *OET Bulletin No. 69*, with respect to all facilities of concern. The software utilized a 1-square kilometer cell size, calculated signal strength at 0.1 kilometer increments along each radial studied, and employed the 2000 U.S. Census to count population within cells. In addition, the program did not attribute interference to the proposed facility in cells within the protected contour of the station under study where interference from another source (other than proposed KSEX-LD) already is predicted to exist (also known as “masking”).

It is important to note that the applicant has specified use of a “stringent” out-of-channel emission mask in order to take advantage of the d/u ratios that pertain to adjacent-channel interference relationships. A revised LPTV DTV elevation pattern, based on the FCC Rules, was applied to proposed facility for the referenced study. The results of this study are provided in Exhibit D-2. It concludes that the facility proposed herein causes no significant new interference to any of the potentially affected stations, except one.

As shown in Exhibit D-2, the proposed KSEX-LD facility would cause impermissible interference to a proposed new digital LPTV station on Channel 21 in Mineral Wells, Texas (BNPDTL-20090825AZL). However, an LPTV displacement application takes precedence over an application for a new LPTV facility. Therefore, interference to the Mineral Wells proposal can be ignored.



EXHIBIT D-1

As a result, it is believed that the proposed Channel 20 facility complies with the interference requirements of Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h), 74.794(b) and 73.1030 of the Commission's Rules to all other facilities.

Summary Study

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 01-08-2010 Time: 11:28:18

Record Selected for Analysis

KSEX-LP- USERRECORD-01 DALLAS TX US  
Channel 20 ERP 15. kW HAAT 298. m RCAMSL 00489 m STRINGENT MASK  
Latitude 032-35-19 Longitude 0096-58-06  
Status APP Zone 1 Border  
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth  
30.  
Last update Cutoff date Docket  
Comments  
Applicant.

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 0.10 km

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	51.0 dBu F(50,90) (km)
0.0	13.367	324.3	56.1
45.0	13.552	287.0	54.1
90.0	13.310	287.8	54.1
135.0	4.814	286.2	48.6
180.0	0.188	257.1	29.9
225.0	1.754	302.6	44.0
270.0	9.243	314.9	53.6
315.0	14.791	321.3	56.5

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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# Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
20	KSEX-LP-	DALLAS TX	USERRECORD01

## Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
19	NEW	ARDMORE OK	161.3	APP	BNPDTL	-
20090825AUX						
19	KTXA	FORT WORTH TX	1.8	APP	BPCDT	-
20090615ACU						
19	KTVT	FORT WORTH TX	1.8	LIC	BLCDT	-
20050628ABA						
19	KTVT	FORT WORTH TX	1.8	CP	BPCDT	-
20091021ACO						
19	KTVT-DR	FORT WORTH TX	1.8	APP	BPRM	-
20090720ACZ						
19	KTXA-DR	FORT WORTH TX	1.8	APP	BPRM	-
20080620AHA						
20	K20JB-D	HOLLIS OK	355.3	CP	BDCCDTT	-
20061030ADE						
20	K20HO	LAWTON OK	254.9	CP	BDFCDTT	-
20090821AAD						
20	K20HO	LAWTON OK	254.9	LIC	BLTT	-
20050916AAW						
20	KQCW-DT	MUSKOGEE OK	399.5	CP MOD	BMPCDT	-
20080620AMN						
20	K62BQ	SAYRE OK	381.2	CP	BDISTT	-
20060719ABN						
20	KOKT-LP	SULPHUR OK	199.2	LIC	BLTTL	-
19970414JA						
20	K20DX	WEATHERFORD OK	361.2	LIC	BLTT	-
19950911IH						
20	KAQC-LP	ATLANTA TX	265.7	LIC	BLTTL	-
20050817AAN						
20	KADF-LP	AUSTIN TX	264.0	CP	BDFCDTL	-
20090728AAT						
20	KADF-LP	AUSTIN TX	264.0	LIC	BLTTL	-
20071029AAN						
20	NEW	BRYAN TX	227.1	APP	BNPDTL	-
20090825BXZ						
20	KSEX-LP	DALLAS FORT WORTH TX	0.0	APP	BDISDTL	-
20090407ADS						
20	NEW	LUFKIN TX	257.5	APP	BNPDTL	-
20090825AUG						
20	K20BW	SAN ANTONIO TX	373.7	LIC	BLTT	-

19981014JC						
20	KTXS-TV	SWEETWATER TX	294.8	LIC	BLCDT	-
20060817ACW						
20	KTXS-TV	SWEETWATER TX	294.9	CP MOD	BMPCDT	-
20080619ABA						
20	K20DL	TYLER TX	161.3	LIC	BLTTL	-
19940407JL						
20	KWBU-TV	WACO TX	145.2	LIC	BLEDT	-
20060622AAS						
20	K20DN	WICHITA FALLS TX	204.2	LIC	BLTTL	-
19931112IA						
20	NEW	WICHITA FALLS TX	206.3	APP	BNPDTL	-
20090825BQN						
21	KWDA-LP	DENISON TX	108.0	APP	BDISDTL	-
20090630AHO						
21	NEW	MINERAL WELLS TX	110.6	APP	BNPDTL	-
20090825AZL						
21	NEW	TYLER TX	161.0	APP	BNPDTL	-
20090825ATK						
22	KNAV-LP	DE SOTO TX	0.2	LIC	BLTTL	-
20050915ABM						
27	K27GR	PARIS TX	175.1	LIC	BLTTL	-
20040617AAS						
28	K28AC	ARDMORE OK	176.1	LIC	BLTT	-
19820405IK						
28	KHPK-LP	DE SOTO TX	0.2	LIC	BLTTL	-
20070829AAG						

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Study of this proposal found the following interference problem(s):

The following station failed the de minimis interference criteria.

20D TX DALLAS                      USERRECORD01  
 ERP 15.00 kW HAAT 298.0 m RCAMSL 489.0 m  
 Antenna usr USRPAT01

Due to interference to the following station and scenario: 1

21D TX MINERAL WELLS              BNPDTL 20090825AZL  
 ERP 15.00 kW HAAT 1.0 m RCAMSL 407.0 m  
 Antenna CDB 00000000023503

Percent Service lost without proposal: 0.0 to BNPDTL  
 20090825AZL

Percent Service lost with proposal: 4.6 to BNPDTL  
 20090825AZL

The following station failed the de minimis interference criteria.

20D TX DALLAS                      USERRECORD01  
 ERP 15.00 kW HAAT 298.0 m RCAMSL 489.0 m  
 Antenna usr USRPAT01

Due to interference to the following station and scenario: 2

21D TX MINERAL WELLS              BNPDTL 20090825AZL  
 ERP 15.00 kW HAAT 1.0 m RCAMSL 407.0 m  
 Antenna CDB 00000000023503

Percent Service lost without proposal: 0.0 to BNPDTL  
 20090825AZL



Percent Service lost with proposal: 4.6 to BNPDTL  
20090825AZL

The following station failed the de minimis interference criteria.

20D TX DALLAS USERRECORD01  
ERP 15.00 kW HAAT 298.0 m RCAMSL 489.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 5

21D TX MINERAL WELLS BNPDTL 20090825AZL  
ERP 15.00 kW HAAT 1.0 m RCAMSL 407.0 m  
Antenna CDB 00000000023503

Percent Service lost without proposal: 0.0 to BNPDTL  
20090825AZL

Percent Service lost with proposal: 4.6 to BNPDTL  
20090825AZL

The following station failed the de minimis interference criteria.

20D TX DALLAS USERRECORD01  
ERP 15.00 kW HAAT 298.0 m RCAMSL 489.0 m  
Antenna usr USRPAT01

Due to interference to the following station and scenario: 6

21D TX MINERAL WELLS BNPDTL 20090825AZL  
ERP 15.00 kW HAAT 1.0 m RCAMSL 407.0 m  
Antenna CDB 00000000023503

Percent Service lost without proposal: 0.0 to BNPDTL  
20090825AZL

Percent Service lost with proposal: 4.6 to BNPDTL  
20090825AZL

Proposed station is MX

20A TX DALLAS USERRECORD01 APP  
21A TX MINERAL WELLS BNPDTL 20090825AZL APP

Proposal MX with BNPDTL 20090825AZL scenario 1 of station 28

Proposed station is MX

20A TX DALLAS USERRECORD01 APP  
21A TX MINERAL WELLS BNPDTL 20090825AZL APP

Proposal MX with BNPDTL 20090825AZL scenario 2 of station 28

Proposed station is MX

20A TX DALLAS USERRECORD01 APP

Proposal MX with group in scenario 11 of station 34

EXHIBIT E

POWER DENSITY CALCULATION

PROPOSED KSEX-LD  
CHANNEL 20 – 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 15.0 kw, an antenna radiation center 244 meters above ground, and the vertical pattern of the ERI antenna, maximum power density two meters above ground of  $0.00035 \text{ mw/cm}^2$  is calculated to occur 74 meters north of the base of the tower. Since this is only 0.1 percent of the  $0.34 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 20 (506-512 MHz), this proposal may be excluded from consideration with respect to public 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.