

## **ENGINEERING EXHIBIT**

### **Application to Modify Post-Transition Digital Television Station Construction Permit**

prepared for

#### **Estes Broadcasting, Inc.**

KCEB-DT Longview, TX

Facility ID 83913

Ch. 51 1000 kW 379 m

*Estes Broadcasting, Inc.* (“*Estes*”) is licensee of KCEB(TV), analog Channel 54, Longview, TX. KCEB was originally authorized after April 3, 1997 and therefore does not have a companion digital channel. A Construction Permit (“CP”, BPCDT-20070510ABZ) authorizes flash-cut of KCEB to digital operation on Channel 38. Appendix B of the Seventh Report and Order in MB Docket 87-278 established KCEB’s post-transition allotment on Channel 38.

The post-transition allotment for KCEB was recently changed from Channel 38 to Channel 51 as described in the Commission’s Report and Order (“R&O”) in MB Docket 08-112<sup>1</sup>. Pursuant to the R&O, *Estes* is submitting the instant application on FCC Form 301 to obtain a modified Construction Permit to specify Channel 51 for the KCEB-DT post-transition facility.

As described in MB Docket 08-112, *Estes* proposes to employ the existing Channel 51 antenna system licensed for station KFXK(TV)’s analog Channel 51 (Facility ID 70917, Longview, TX). This antenna is located on the same tower structure as specified for KCEB’s presently authorized digital Channel 38. The proposed effective radiated power (“ERP”) is 1000 kW, a slight increase over the 940 kW specified in the petition for rulemaking (as amended) underlying MB Docket 08-112.

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<sup>1</sup>*Amendment of Section 73.622(i), Final DTV Table of Allotments, Television Broadcast Stations (Longview, Texas)*, MB Docket No. 08-112, RM 11456, DA 08-2065, released September 12, 2008.

The antenna is top-mounted on an existing antenna supporting structure, having FCC Antenna Structure Registration (“ASR”) number 1047436.<sup>2</sup> No change to the overall structure height and no tower work are required to carry out this proposal.

The proposed KCEB-DT antenna system is an RCA model TFU-30JDAS (special peanut). The directional antenna’s azimuthal pattern is depicted in **Figure 1**. **Figure 2** provides the theoretical vertical plane (elevation) pattern.<sup>3</sup>

A map is supplied as **Figure 3**, which depicts the standard predicted coverage contours. This map includes the boundaries of Longview, KCEB-DT’s principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 48 dBμ contour.

The proposed Channel 51 KCEB-DT facility’s predicted service population provides a 101.1 percent match of the MB Docket 08-112 Channel 51 allotment facility, as detailed in the following table.

<b>Post-Transition Population Summary</b>		
Population Summary (2000 Census) OET Bulletin 69 method	Ch. 51 Allotment	Proposed
Within Noise Limited Contour	711,421	719,131
Not affected by terrain losses	710,628	718,253
Lost to all interference	0	0
Net DTV Service	<b>710,628</b>	<b>718,253</b>
Match of Appendix B	---	<b>101.07%</b>

<sup>2</sup> The proposed coordinates, antenna height above average terrain, and antenna height above mean sea level vary slightly from the KXFK Channel 51 licensed values to conform to ASR data regarding the site location and elevation. Additionally, the ASR was modified with revised elevation data subsequent *Estes*’ rulemaking petition

<sup>3</sup> These patterns are supplied in terms of relative field. In recent years, FCC Staff have not required pattern data in dBk format however such patterns are available upon request.

A detailed interference study per OET Bulletin 69<sup>4</sup> shows that the proposal complies with the 0.5 percent limit of new interference caused to the Appendix B facilities and post-transition authorizations of pertinent nearby stations. The interference study output report is provided as **Table 1**. Protection requirements towards authorized Class A stations are also satisfied.

The proposed 1000 kW ERP exceeds the maximum allowed for the proposed antenna HAAT of 379 meters currently permitted by §73.622(f)(8)(i). Section 73.622(f)(5) permits the maximum ERP to be exceeded in order to provide the same geographic coverage area as the largest station within the same market. The total area within the proposed KCEB-DT 41 dB $\mu$  contour is 27,223 square kilometers, which does not exceed the post-transition coverage contour areas of KETK-DT (34,161 sq. km, BLCDT-20060621AAF, Ch. 22, Jacksonville, TX), KFVK-DT (29,601 sq. km, BLCDT-20060705AAW, Ch. 31, Longview, TX), or KYTX-DT (29,064 sq. km, BLCDT-20070810AAO, Nacogdoches, TX). A coverage contour comparison map is provided as **Figure 4**. Thus, the ERP specified herein is in compliance with §73.622(f)(5) of the Commission's Rules.

The nearest FCC monitoring station is 604 km distant at Kingsville, TX. This exceeds by a large margin the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with "quiet" zones specified in §73.1030(a) and (b). There are no AM stations within 3.2 kilometers of the site, based on information contained within the Commission's database. The site location is beyond the border areas requiring international coordination.

### **Human Exposure to Radiofrequency Electromagnetic Field (Environmental)**

The proposal will involve use of an existing transmitting antenna. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. No tower construction or change in

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<sup>4</sup>FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). The implementation of OET-69 for this study followed the guidelines of OET-69 as specified therein. A standard cell size of 2 km was employed. Comparisons of various results of this computer program (run on a Sun Sparc processor) to the Commission's implementation of OET-69 show excellent correlation.

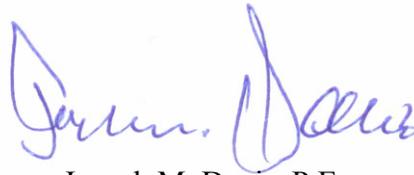
structure height is proposed. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and assuming 20 percent antenna relative field in downward elevations, the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is  $10.5 \mu\text{W}/\text{cm}^2$ , which is 2.3 percent of the general population/uncontrolled maximum permitted exposure limit. This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

### **Certification**

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direction, and that they are true and correct to the best of his knowledge and belief.



Joseph M. Davis, P.E.  
October 29, 2008

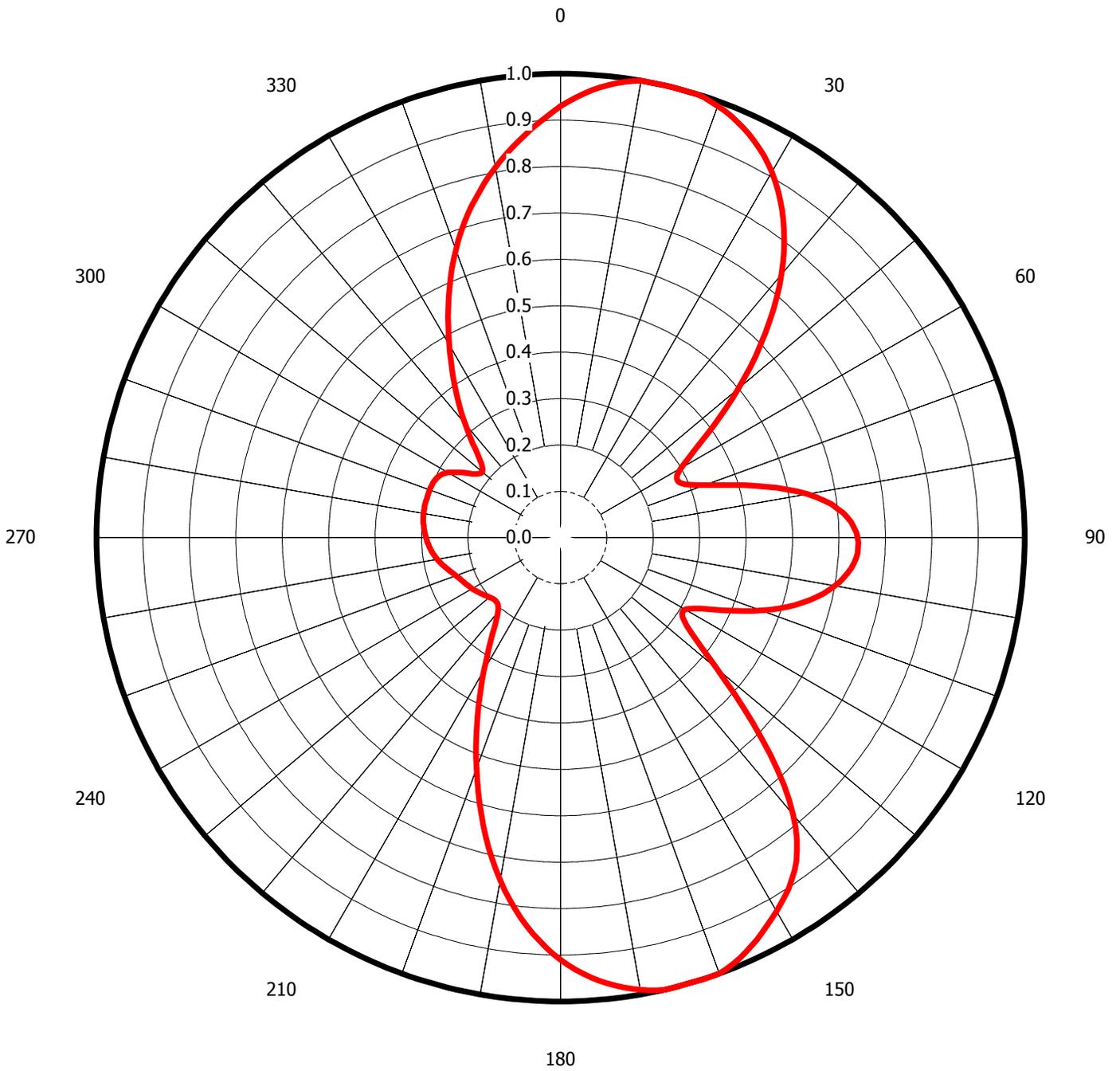
**Chesapeake RF Consultants, LLC**  
11993 Kahns Road  
Manassas, VA 20112  
703-650-9600

### List of Attachments

Figure 1	Antenna Horizontal Plane Pattern
Figure 2	Antenna Vertical Plane (Elevation) Pattern
Figure 3	Proposed Coverage Contours
Figure 4	Largest Station in Market
Table 1	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload

*This material was entered October 29, 2008 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's name and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.*

**Relative Field  
True North**



**Figure 1**  
**Antenna Azimuth Pattern**  
**KCEB-DT Longview, TX**  
**Facility ID 83913**  
**Ch. 51 1000 kW 379 m**

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prepared for  
**Estes Broadcasting, Inc.**

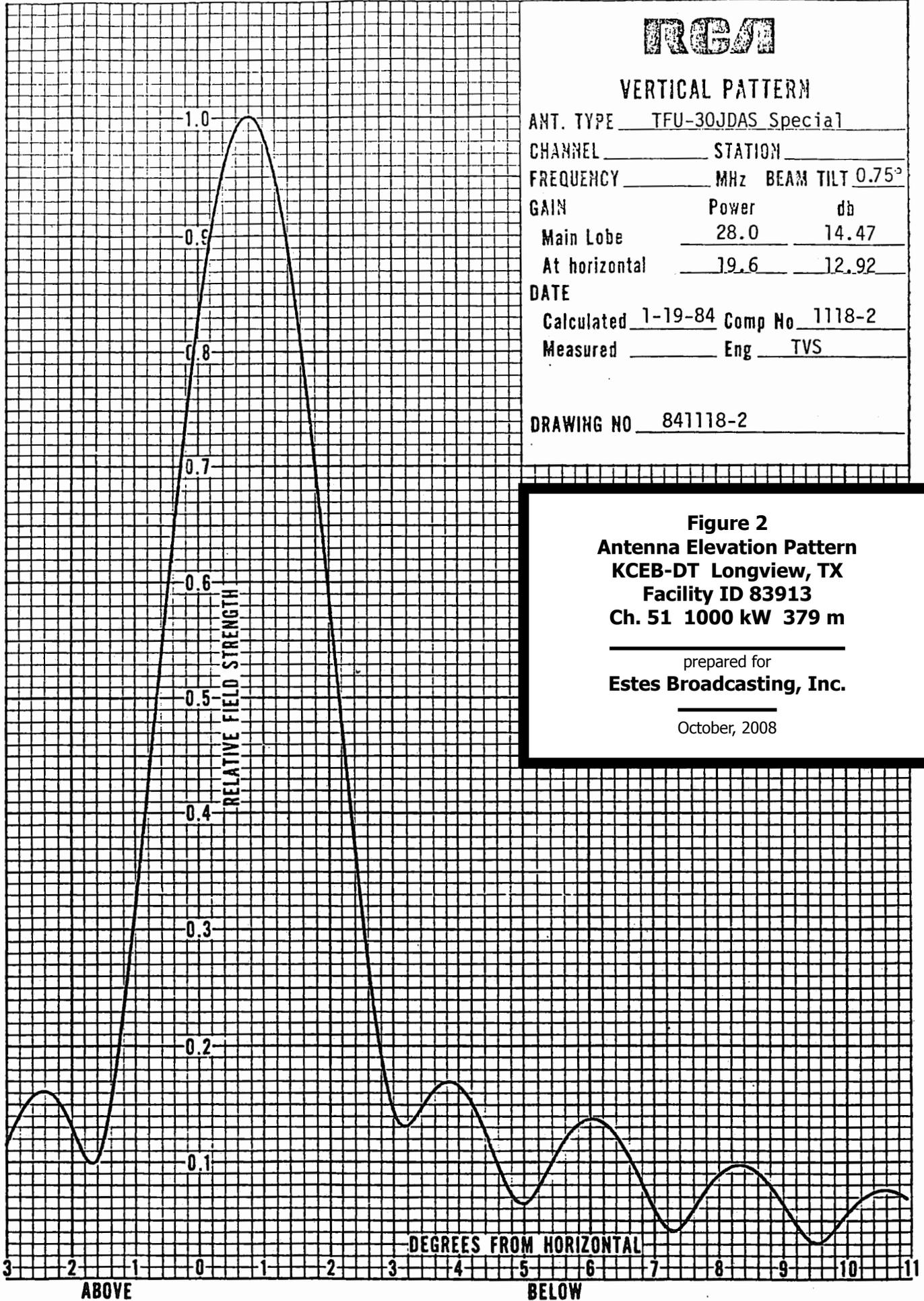
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October, 2008

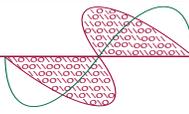


### VERTICAL PATTERN

ANT. TYPE TFU-30JDAS Special  
CHANNEL \_\_\_\_\_ STATION \_\_\_\_\_  
FREQUENCY \_\_\_\_\_ MHz BEAM TILT 0.75°  
GAIN Power db  
Main Lobe 28.0 14.47  
At horizontal 19.6 12.92  
DATE  
Calculated 1-19-84 Comp No 1118-2  
Measured \_\_\_\_\_ Eng TVS  
DRAWING NO 841118-2



**Figure 2**  
**Antenna Elevation Pattern**  
**KCEB-DT Longview, TX**  
**Facility ID 83913**  
**Ch. 51 1000 kW 379 m**  
prepared for  
**Estes Broadcasting, Inc.**  
October, 2008



**Chesapeake RF Consultants, LLC**  
 Radiofrequency Consulting Engineers  
 Digital Television and Radio

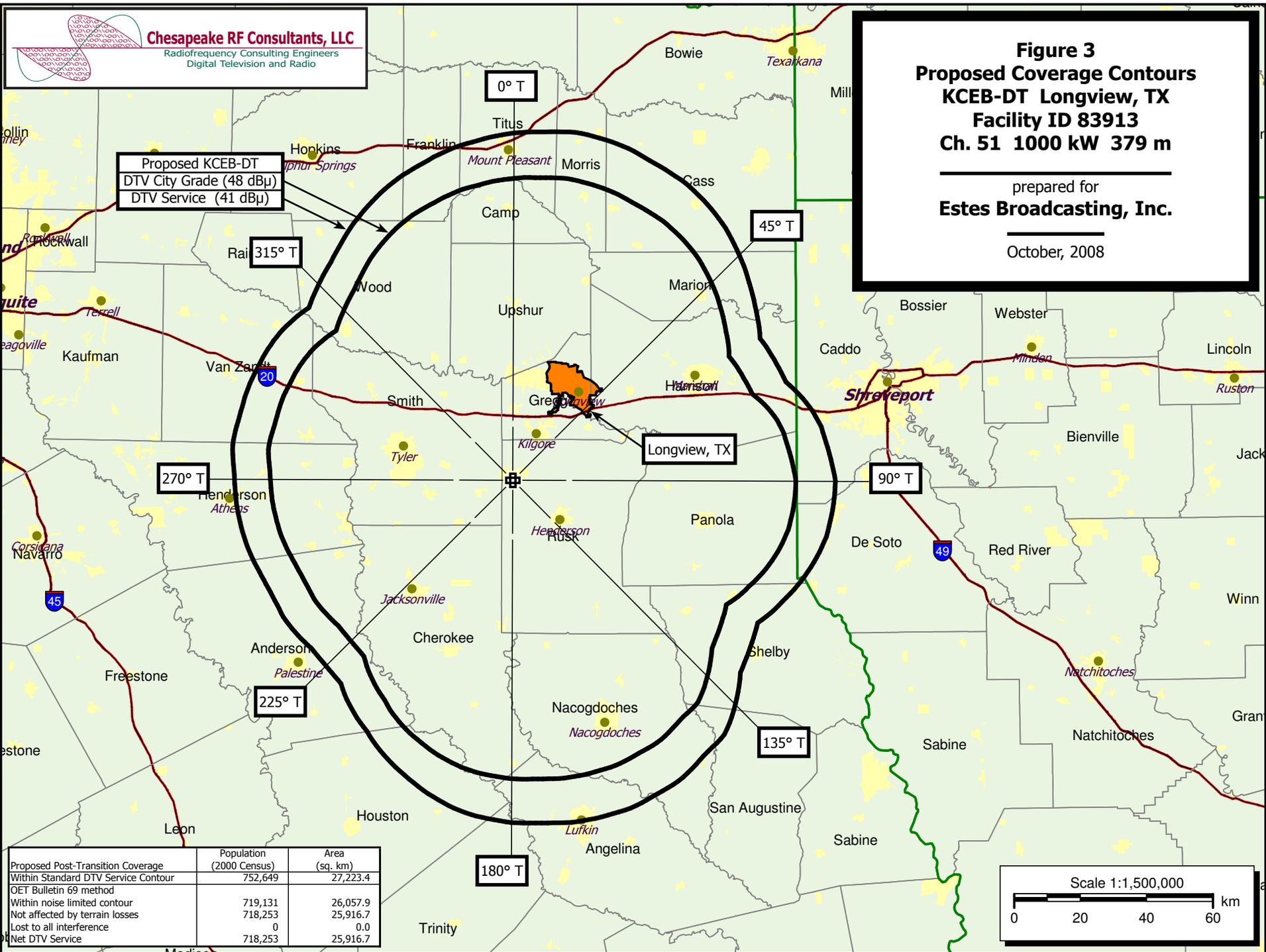
**Figure 3**  
**Proposed Coverage Contours**  
**KCEB-DT Longview, TX**  
**Facility ID 83913**  
**Ch. 51 1000 kW 379 m**

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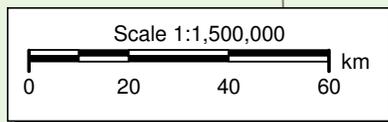
prepared for  
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Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	752,649	27,223.4
OET Bulletin 69 method		
Within noise limited contour	719,131	26,057.9
Not affected by terrain losses	718,253	25,916.7
Lost to all interference	0	0.0
Net DTV Service	718,253	25,916.7



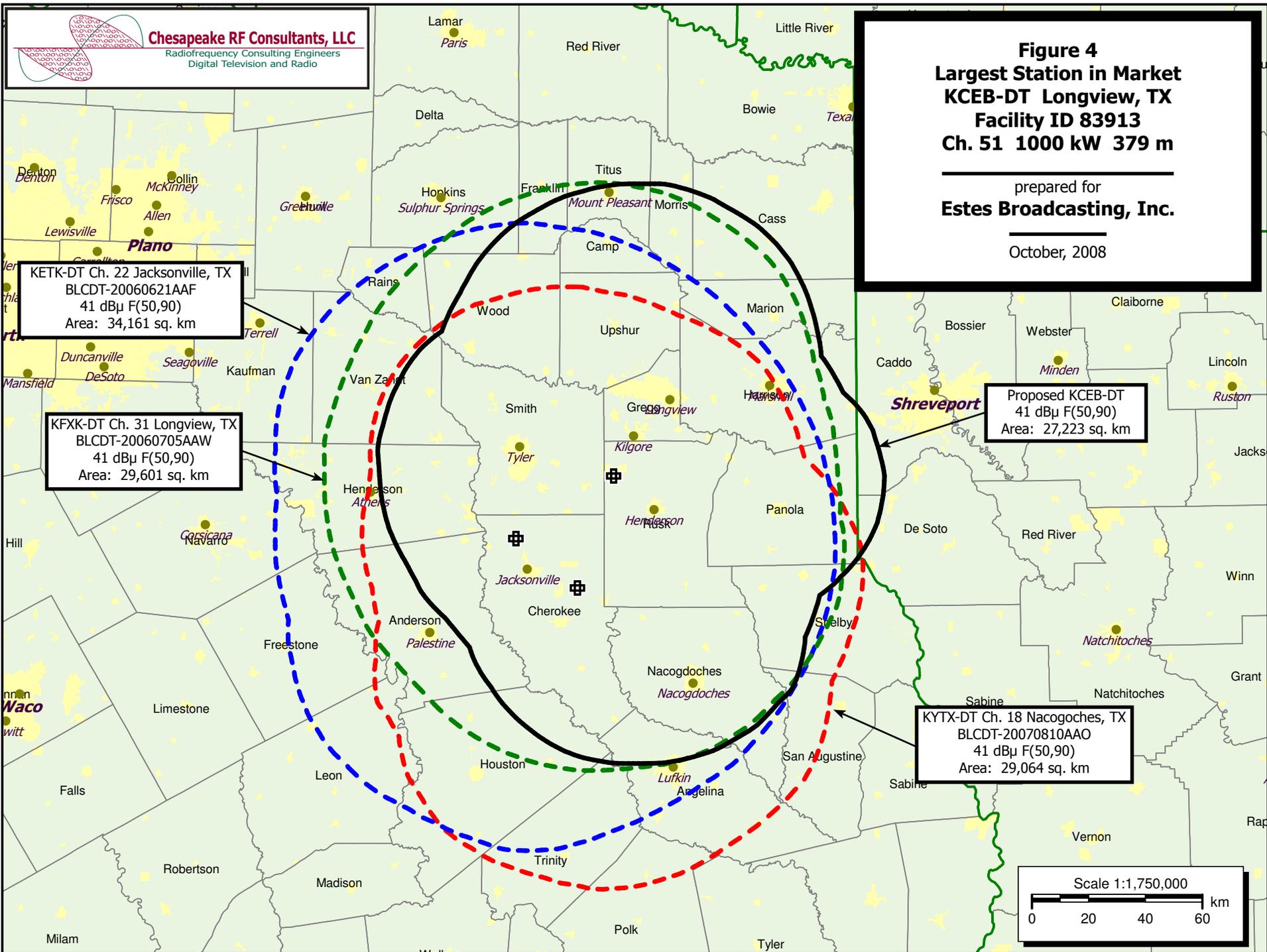
**Figure 4**  
**Largest Station in Market**  
**KCEB-DT Longview, TX**  
**Facility ID 83913**  
**Ch. 51 1000 kW 379 m**

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prepared for  
**Estes Broadcasting, Inc.**

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October, 2008

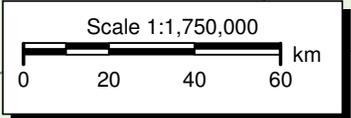


KETK-DT Ch. 22 Jacksonville, TX  
 BLCDT-20060621AAF  
 41 dBμ F(50,90)  
 Area: 34,161 sq. km

KFXK-DT Ch. 31 Longview, TX  
 BLCDT-20060705AAW  
 41 dBμ F(50,90)  
 Area: 29,601 sq. km

Proposed KCEB-DT  
 41 dBμ F(50,90)  
 Area: 27,223 sq. km

KYTX-DT Ch. 18 Nacogdoches, TX  
 BLCDT-20070810AAO  
 41 dBμ F(50,90)  
 Area: 29,064 sq. km



**Table 1 KCEB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 1 of 6)

TW Census data selected 2000  
Post Transition Data Base Selected /space/software/cdbs/pt\_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 10-28-2008 Time: 14:42:04

Record Selected for Analysis

KCEBDT USERRECORD-01 LONGVIEW TX US  
Channel 51 ERP 1000. kW HAAT 380. m RCAMSL 00516 m  
Latitude 032-15-36 Longitude 0094-57-02  
Status APP Zone 2 Border  
Dir Antenna Make CDB Model 00000000020557 Beam tilt N Ref Azimuth 0.  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility does not meet maximum height/power limits  
Channel 51 ERP = 1000.00 HAAT = 380.

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	864.900	397.5	104.5
45.0	384.400	383.3	96.3
90.0	409.600	392.1	97.4
135.0	372.100	370.4	95.1
180.0	828.100	385.8	103.1
225.0	42.025	369.8	79.3
270.0	84.100	367.9	83.9
315.0	72.900	369.8	83.1

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

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

**Table 1 KCEB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 2 of 6)

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
51	KCEBDT	LONGVIEW TX	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
50	KBXS-CA	SHREVEPORT LA	116.2	LIC	BLTTA	-20030718ADM
50	KBTX-TV	BRYAN TX	215.5	CP MOD	BMPCDT	-20080228ABF
50	KBTX-TV	BRYAN TX	215.5	PLN	DTVPLN	-DTVPI779
50	KBTX-TV	BRYAN TX	215.5	APP	BMPCDT	-20080611AAI
50	KATA-CA	MESQUITE TX	193.0	APP	BDFCDTA	-20081020AML
51	WWJX	JACKSON MS	427.3	PLN	DTVPLN	-DTVPI1800
51	WWJX	JACKSON MS	427.3	CP MOD	BMPCDT	-20080618ADR
51	KBVO-CA	AUSTIN TX	345.6	LIC	BLTTA	-20020405ABE
51	KBVO-CA	AUSTIN TX	345.6	CP	BDFCDTA	-20060331ASH

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	KBXS-CA	SHREVEPORT LA	BLTTA	-20030718ADM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	KKYK-DT	CAMDEN AR	128.8	CP	BPCDT	-20050224ABE
49	KKYK-DT	CAMDEN AR	128.8	PLN	DTVPLN	-DTVPI728
49	KKYK-DT	CAMDEN AR	128.9	LIC	BLCT	-20000412ADA
50	K50EK	EL DORADO AR	128.9	LIC	BLTTL	-20001130ABL
50	KTSS-LP	HOPE AR	128.4	LIC	BLTTL	-20020311AAR
50	KLWB	NEW IBERIA LA	294.2	LIC	BLCT	-20060316ACO
50	KLWB	NEW IBERIA LA	294.2	PLN	DTVPLN	-DTVPI767
50	NEW	NEW IBERIA LA	344.4	LIC	BPRM	-20020308BABY
50	KLWB	NEW IBERIA LA	294.2	CP MOD	BMPCDT	-20080827AAF
50	KBTX-TV	BRYAN TX	306.8	CP MOD	BMPCDT	-20080228ABF
50	KBTX-TV	BRYAN TX	306.8	PLN	DTVPLN	-DTVPI779
50	KBTX-TV	BRYAN TX	306.8	APP	BMPCDT	-20080611AAI
51	KCEB-DR	LONGVIEW TX	116.2	APP	BPRM	-20080514AHH
51	KFKK	LONGVIEW TX	116.2	LIC	BLCT	-19910904KE
54	KCEB	LONGVIEW TX	100.6	LIC	BLCT	-20030721ABN
51	KCEBDT	LONGVIEW TX	116.2	APP	USERRECORD-01	

Proposal causes no interference

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**Table 1 KCEB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 3 of 6)

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	KBTX-TV	BRYAN TX	BMPCDT -20080228ABF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
49	KNVA	AUSTIN TX	171.4	CP	BPCDT -20080606AAC
49	KNVA	AUSTIN TX	171.4	PLN	DTVPLN -DTV1752
49	KNVA	AUSTIN TX	171.4	LIC	BLCDT -20060721ABF
50	KLWB	NEW IBERIA LA	389.3	PLN	DTVPLN -DTV1767
50	KLWB	NEW IBERIA LA	389.3	CP MOD	BMPCDT -20080827AAF
51	KCEB-DR	LONGVIEW TX	215.5	APP	BPRM -20080514AHH
51	KCEBDT	LONGVIEW TX	215.5	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	KBTX-TV	BRYAN TX	DTVPLN -DTV1779

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
49	KNVA	AUSTIN TX	171.4	CP	BPCDT -20080606AAC
49	KNVA	AUSTIN TX	171.4	PLN	DTVPLN -DTV1752
49	KNVA	AUSTIN TX	171.4	LIC	BLCDT -20060721ABF
50	KLWB	NEW IBERIA LA	389.3	PLN	DTVPLN -DTV1767
50	KLWB	NEW IBERIA LA	389.3	CP MOD	BMPCDT -20080827AAF
51	KCEB-DR	LONGVIEW TX	215.5	APP	BPRM -20080514AHH
51	KCEBDT	LONGVIEW TX	215.5	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	KBTX-TV	BRYAN TX	BMPCDT -20080611AAI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
49	KNVA	AUSTIN TX	171.4	CP	BPCDT -20080606AAC
49	KNVA	AUSTIN TX	171.4	PLN	DTVPLN -DTV1752
49	KNVA	AUSTIN TX	171.4	LIC	BLCDT -20060721ABF
50	KLWB	NEW IBERIA LA	389.3	PLN	DTVPLN -DTV1767
50	KLWB	NEW IBERIA LA	389.3	CP MOD	BMPCDT -20080827AAF
51	KCEB-DR	LONGVIEW TX	215.5	APP	BPRM -20080514AHH
51	KCEBDT	LONGVIEW TX	215.5	APP	USERRECORD-01

Proposal causes no interference

**Table 1 KCEB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 4 of 6)

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	KATA-CA	MESQUITE TX	BDFCDTA -20081020AML

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
50	KOPX	OKLAHOMA CITY OK	337.8	PLN	DTVPLN -DTV1774
50	KOPX	OKLAHOMA CITY OK	337.8	LIC	BLCDT -20021108ABC
50	KBTX-TV	BRYAN TX	243.0	CP MOD	BMPCDT -20080228ABF
50	KBTX-TV	BRYAN TX	243.0	PLN	DTVPLN -DTV1779
50	KBTX-TV	BRYAN TX	243.0	APP	BMPCDT -20080611AAI
51	KCEB-DR	LONGVIEW TX	193.0	APP	BPRM -20080514AHH
51	KCEBDT	LONGVIEW TX	193.0	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
51	WWJX	JACKSON MS	DTVPLN -DTV1800

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
51	WPXX-TV	MEMPHIS TN	334.7	LIC	BLCDT -20020430ACC
51	WPXX-TV	MEMPHIS TN	334.7	PLN	DTVPLN -DTV1813
51	KCEB-DR	LONGVIEW TX	427.3	APP	BPRM -20080514AHH
51	KCEBDT	LONGVIEW TX	427.3	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
51	WWJX	JACKSON MS	BMPCDT -20080618ADR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
51	WPXX-TV	MEMPHIS TN	334.7	LIC	BLCDT -20020430ACC
51	WPXX-TV	MEMPHIS TN	334.7	PLN	DTVPLN -DTV1813
51	KCEB-DR	LONGVIEW TX	427.3	APP	BPRM -20080514AHH

**Table 1 KCEB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 5 of 6)

51 KCEBDT LONGVIEW TX 427.3 APP USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
51	KBVO-CA	AUSTIN TX	BLTTA -20020405ABE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	KEYE-TV	AUSTIN TX	0.6	LIC	BLCDT -20031001BGN
43	KEYE-TV	AUSTIN TX	0.6	PLN	DTVPLN -DTVPI556
44	KWKT	WACO TX	118.8	CP	BPCDT -20080519ABE
44	KWKT	WACO TX	118.8	PLN	DTVPLN -DTVPI595
44	KWKT	WACO TX	118.8	LIC	BLCT -20050314AFV
48	WOAI-TV	SAN ANTONIO TX	125.7	CP	BPCDT -20080304AAH
48	WOAI-TV	SAN ANTONIO TX	125.7	PLN	DTVPLN -DTVPI723
49	KNVA	AUSTIN TX	0.0	CP	BPCDT -20080606AAC
49	KNVA	AUSTIN TX	0.0	PLN	DTVPLN -DTVPI752
49	KNVA	AUSTIN TX	0.0	LIC	BLCDT -20060721ABF
51	KNWS-TV	KATY TX	237.1	LIC	BLCT -19931104KE
51	KCEB-DR	LONGVIEW TX	345.6	APP	BPRM -20080514AAH
51	KFXX	LONGVIEW TX	345.5	LIC	BLCT -19910904KE
51	KTJA-CA	VICTORIA TX	189.8	APP	BSTA -20060208ABG
51	KCEBDT	LONGVIEW TX	345.6	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
51	KBVO-CA	AUSTIN TX	BDFCDTA -20060331ASH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
50	KBTX-TV	BRYAN TX	171.4	CP MOD	BMPCDT -20080228ABF
50	KBTX-TV	BRYAN TX	171.4	PLN	DTVPLN -DTVPI779
50	KBTX-TV	BRYAN TX	171.4	APP	BMPCDT -20080611AAI
51	KCEB-DR	LONGVIEW TX	345.6	APP	BPRM -20080514AAH
51	KCEBDT	LONGVIEW TX	345.6	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

**Table 1 KCEB-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 6 of 6)

Channel	Call	City/State	Application Ref. No.
51	KCEBDT	LONGVIEW TX	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
50	KBTX-TV	BRYAN TX	215.5	CP MOD	BMPCDT -20080228ABF
50	KBTX-TV	BRYAN TX	215.5	PLN	DTVPLN -DTVPI779
50	KBTX-TV	BRYAN TX	215.5	APP	BMPCDT -20080611AAI
51	WWJX	JACKSON MS	427.3	PLN	DTVPLN -DTVPI800
51	WWJX	JACKSON MS	427.3	CP MOD	BMPCDT -20080618ADR

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 10

Before Analysis

Results for: 51A TX LONGVIEW USERRECORD01 APP

HAAT 380.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	719131	26057.9
not affected by terrain losses	718253	25916.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Potential Interfering Stations Included in above Scenario 1

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

SECTION III-D - DTV Engineering	
<b>Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.</b>	
<p><b>Pre-Transition Certification Checklist:</b> An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to change pre-transition facilities. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.</p> <p><b>Post-Transition Expedited Processing.</b> An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed within 45 days of the effective date of Section 73.616 of the rules adopted in the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91.</p>	
1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:	
(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	<input checked="" type="radio"/> Yes <input type="radio"/> No
(b) It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(c) It will operate a pre-transition facility with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(d) It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B").	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
(e) It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Applicant must submit the Exhibit called for in Item 13.	<input checked="" type="radio"/> Yes <input type="radio"/> No
3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community.	<input checked="" type="radio"/> Yes <input type="radio"/> No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable.	<input checked="" type="radio"/> Yes <input type="radio"/> No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	<input checked="" type="radio"/> Yes <input type="radio"/> No

SECTION III-D - DTV Engineering	
<b>TECHNICAL SPECIFICATIONS</b>	
Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.	
<b>TECH BOX</b>	
1. Channel Number:	DTV 51 Analog TV, if any 54
2. Zone:	<input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III
3. Antenna Location Coordinates: (NAD 27)	Latitude: Degrees 32 Minutes 15 Seconds 36 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 94 Minutes 57 Seconds 2 <input checked="" type="radio"/> West <input type="radio"/> East
4. Antenna Structure Registration Number: 1047436	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5. Antenna Location Site Elevation Above Mean Sea Level:	158 meters
6. Overall Tower Height Above Ground Level:	366 meters
7. Height of Radiation Center Above Ground Level:	358 meters
8. Height of Radiation Center Above Average Terrain :	379 meters
9. Maximum Effective Radiated Power (average power):	1000 kW
10. Antenna Specifications:	<p>a. Manufacturer RCA Model TFU-30JDAS (SPECIAL PEANUT)</p> <p>b. Electrical Beam Tilt: 0.75 degrees <input type="checkbox"/> Not Applicable</p> <p>c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable</p> <p>Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).</p>

[Exhibit  
42]

d. Polarization:  
 Horizontal  Circular  Elliptical

e. Directional Antenna Relative Field Values:  Not applicable (Nondirectional)

[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.]  
 [Relative Field Values]

**10e. Directional Antenna Relative Field Values**

[Fill in this subform for a composite directional (not off-the-shelf) antenna, only.]

e. Directional Antenna Relative Field Values:

Rotation (Degrees):  No Rotation

Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	0.93	10	1	20	0.99	30	0.91	40	0.74	50	0.5
60	0.3	70	0.33	80	0.54	90	0.64	100	0.6	110	0.46
120	0.31	130	0.44	140	0.78	150	0.93	160	1	170	0.99
180	0.91	190	0.75	200	0.53	210	0.33	220	0.21	230	0.2
240	0.22	250	0.24	260	0.27	270	0.29	280	0.3	290	0.3
300	0.28	310	0.22	320	0.32	330	0.48	340	0.66	350	0.81
Additional Azimuths											

[Relative Field Polar Plot](#)

If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. **Exhibit required.** [Exhibit 43]

11. Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if **Certification Checklist** Items 1(a), (b), or (c) are answered "No.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616?  Yes  No [Exhibit 44]

If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.

12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. [Exhibit 45]  
 (Applicable only if **Certification Checklist** item 3 is answered "No.")

13. **Environmental Protection Act. Submit in an Exhibit** the following: [Exhibit 46]  
 If **Certification Checklist** Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.  
 By checking "Yes" to **Certification Checklist** Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.  
 If **Certification Checklist** Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.

**PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.**

**SECTION III - PREPARER'S CERTIFICATION**

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name JOSEPH M. DAVIS, P.E.	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature	Date 10/29/2008	
Mailing Address CHESAPEAKE RF CONSULTANTS, LLC 11993 KAHNS ROAD		
City MANASSAS	State or Country (if foreign address) VA	Zip Code 20112 -
Telephone Number (include area code) 7036509600	E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Any specified rotation has already been applied to the plotted pattern.

Field strength values shown on a rotated pattern may differ from the listed values because intermediate azimuths are interpolated between entered azimuths.

