

ENGINEERING EXHIBIT

“Maximization” Application for Post-Transition Digital Television Station Construction Permit prepared for

Bluestone License Holdings Inc.
KTXS-DT Sweetwater, TX
Facility ID 308
Ch. 20 700 kW 439 m

Bluestone License Holdings Inc. (“*Bluestone*”) is the licensee of television station KTXS-TV, analog Channel 12 and digital Channel 20, Sweetwater, TX. The licensed digital facility employs an effective radiated power (“ERP”) of 26.44 kW at 351 meters antenna height above average terrain (“HAAT”), with a side-mounted antenna. A Construction Permit authorizes digital operation with a new side-mount directional antenna with 530 kW ERP at 402 meters HAAT. KTXS-DT will remain on its current digital Channel 20 for the post-transition period, as established in Appendix B of the Seventh Report and Order in MB Docket 87-278. The Appendix B parameters are 561 kW ERP and 427 meters HAAT. *Bluestone* herein seeks a Construction Permit to expand the KTXS-DT post-transition Channel 20 digital facility to 700 kW ERP and 439 meters antenna HAAT. The instant application is intended to be filed by June 20, 2008 in response to the FCC’s lifting of the August 3, 2004 “freeze” concerning expansion in service area.¹

The proposed KTXS-DT Channel 20 antenna system, a Dielectric nondirectional model TFU-24GTH-R O4, will be top-mounted in place of the existing analog Channel 12 antenna on the KTXS-TV tower structure (FCC Antenna Structure Registration number 1052057). No change to the overall structure height will result from this proposal.

A map is supplied as **Figure 1**, which depicts the standard predicted coverage contours. This map includes the boundaries of Sweetwater, KTXS-DT’s principal community. As demonstrated

¹Public Notice “*Commission Lifts the Freeze On the Filing of Maximization Applications and Petitions for Digital Channel Substitutions, Effective Immediately*” DA 08-1213, released May 30, 2008.

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 KTXS-DT facility's predicted service population provides a 100.7 percent match of the Appendix B facility, as detailed in the following table.

Post-Transition Population Summary		
Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	251,623	260,025
Not affected by terrain losses	249,811	258,280
Lost to all interference	6,498	13,367
Net DTV Service	243,313	244,913
Match of Appendix B	---	100.66%

A detailed interference study per OET Bulletin 69² shows that the proposal complies with the 0.5 percent limit of new interference caused to the Appendix B facilities and current 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 nearest FCC monitoring station is 591 km distant at Kingsville, TX. This exceeds the threshold minimum distances 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 proposed transmitting antenna’s installation will replace an existing top-mount antenna and involve no change in overall tower height. Thus, it is believed that this application may be

²FCC 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.

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 considering 10 percent antenna relative field in downward elevations (pattern data shows less than 10 percent relative field at angles 10 to 90 degrees below the antenna), the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is $2.3 \mu\text{W}/\text{cm}^2$, which is 0.7 percent of the general population/uncontrolled maximum permitted exposure limit. This is well 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.

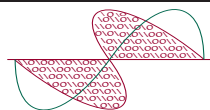
Joseph M. Davis, P.E.
June 12, 2008

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

List of Attachments

Figure 1	Proposed Coverage Contours
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 June 12, 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.



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

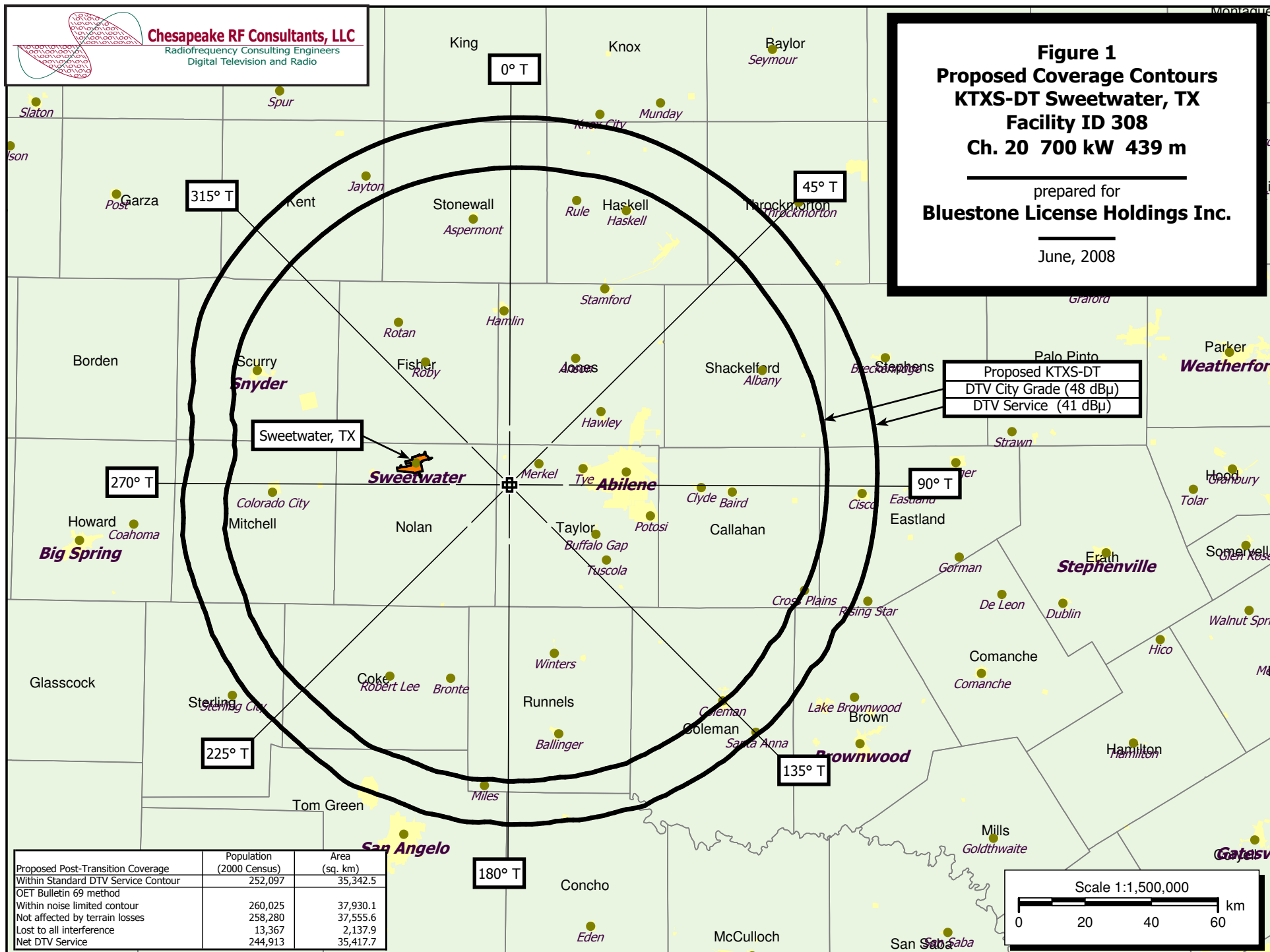


Table 1 KTXS-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 1 of 8)

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

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-12-2008 Time: 18:05:19

Record Selected for Analysis

KTXS-DT USERRECORD-01 SWEETWATER TX US
Channel 20 ERP 700. kW HAAT 439. m RCAMSL 01074 m
Latitude 032-24-48 Longitude 0100-06-25
Status APP Zone 2 Border
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 meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	700.000	491.7	110.4
45.0	700.000	502.0	111.2
90.0	700.000	494.4	110.7
135.0	700.000	438.7	106.0
180.0	700.000	394.4	102.2
225.0	700.000	377.1	100.8
270.0	700.000	353.2	98.9
315.0	700.000	464.1	108.2

Evaluation toward Class A Stations

Contour overlap to Class A station
K20DN 20 WICHITA FALLS TX BLTTL 19931112IA

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

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Table 1 KTXS-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 2 of 8)

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
20	KTXS-DT	SWEETWATER TX	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	KIDU-LP	BROWNWOOD TX	110.8	LIC	BLTTA	-20040818AAL
19	KIDY	SAN ANGELO TX	99.4	CP	BPCDT	-19991029AFV
19	KIDY	SAN ANGELO TX	99.4	PLN	DTVPLN	-DTVP0703
20	KVIH-TV	CLOVIS NM	354.9	CP	BPCDT	-19991029ACF
20	KVIH-TV	CLOVIS NM	354.9	PLN	DTVPLN	-DTVP0735
20	KWBU-TV	WACO TX	287.6	LIC	BLEDT	-20060622AAS
20	KWBU-TV	WACO TX	287.6	PLN	DTVPLN	-DTVP0743
20	K20DN	WICHITA FALLS TX	223.8	LIC	BLTTL	-19931112IA

Analysis of Interference to Affected Station 1

Analysis of current record
Channel Call City/State Application Ref. No.
17 KIDU-LP BROWNWOOD TX BLTTA -20040818AAL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KXVA	ABILENE TX	63.1	CP	BPCDT	-20080317ADK
15	KXVA	ABILENE TX	63.1	PLN	DTVPLN	-DTVP0548
16	KSAN-TV	SAN ANGELO TX	127.5	CP MOD	BMPCDT	-20070125ABX
16	KSAN-TV	SAN ANGELO TX	127.5	PLN	DTVPLN	-DTVP0585
17	KNIC-TV	BLANCO TX	248.4	LIC	BLCT	-20061003AFN
17	NEW	BLANCO TX	246.4	LIC	BPRM	-20020308ABT
17	NEW	BROWNWOOD TX	20.9	APP	BNPTTL	-20000828AZG
17	NEW	BROWNWOOD TX	20.9	APP	BNPTTL	-20000828AGG
17	NEW	BROWNWOOD TX	21.3	APP	BNPTTL	-20000830BML
17	KVAT-LP	GARFIELD TX	213.0	LIC	BLTTL	-20041214AEC
17	NEW	RANGER TX	89.5	APP	BNPTTL	-20000831AXP
17	KPCB	SNYDER TX	195.3	CP	BPCDT	-20080310ADH
17	KPCB	SNYDER TX	195.3	PLN	DTVPLN	-DTVP0622
17	KPCB	SNYDER TX	195.3	LIC	BLCT	-19970409KE
19	KIDY	SAN ANGELO TX	135.7	CP	BPCDT	-19991029AFV
19	KIDY	SAN ANGELO TX	135.7	PLN	DTVPLN	-DTVP0703
20	KTXS-TV	SWEETWATER TX	110.7	LIC	BLCDT	-20060817ACW
20	KTXS-TV	SWEETWATER TX	110.8	PLN	DTVPLN	-DTVP0742
20	KTXS-TV	SWEETWATER TX	110.8	CP	BPCDT	-20071127ACP
24	KTAB-TV	ABILENE TX	63.8	LIC	BLCDT	-20070831AAJ
24	KTAB-TV	ABILENE TX	63.8	PLN	DTVPLN	-DTVP0903
32	KTAB-TV	ABILENE TX	63.8	LIC	BLCT	-19990329KF
20	KTXS-DT	SWEETWATER TX	110.8	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

Table 1 KTXS-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 3 of 8)

Analysis of Interference to Affected Station						2
Analysis of current record						
Channel	Call	City/State	Application	Ref. No.		
19	KIDY	SAN ANGELO TX	BPCDT	-19991029AFV		
Stations Potentially Affecting This Station						
Chan	Call	City/State	Dist(km)	Status	Application Ref. No.	
18	KUPB	MIDLAND TX	192.7	PLN	DTVPLN -DTVP0656	
18	KUPB	MIDLAND TX	192.7	CP	BPCDT -19991230AAK	
19	KOCT	CARLSBAD NM	372.1	CP	BPCDT -19991101AEP	
19	KOCT	CARLSBAD NM	372.1	PLN	DTVPLN -DTVP0695	
19	KOCT	CARLSBAD NM	372.1	APP	BMPCDT -20080527ABX	
20	KTXS-TV	SWEETWATER TX	99.4	PLN	DTVPLN -DTVP0742	
20	KTXS-DT	SWEETWATER TX	99.4	APP	USERRECORD-01	
Total scenarios = 1						
Result key: 1						
Scenario	1	Affected station	2			
Before Analysis						
Results for: 19A TX SAN ANGELO						BPCDT 19991029AFV CP
HAAT 239.0 m, ATV ERP 700.0 kW						
POPULATION AREA (sq km)						
within Noise Limited Contour 130442 22409.9						
not affected by terrain losses 130373 22289.5						
lost to NTSC IX 0 0.0						
lost to additional IX by ATV 83 116.4						
lost to ATV IX only 83 116.4						
lost to all IX 83 116.4						
Potential Interfering Stations Included in above Scenario 1						
20A TX SWEETWATER DTVPLN DTVP0742 PLN						
After Analysis						
Results for: 19A TX SAN ANGELO						BPCDT 19991029AFV CP
HAAT 239.0 m, ATV ERP 700.0 kW						
POPULATION AREA (sq km)						
within Noise Limited Contour 130442 22409.9						
not affected by terrain losses 130373 22289.5						
lost to NTSC IX 0 0.0						
lost to additional IX by ATV 98 136.5						
lost to ATV IX only 98 136.5						
lost to all IX 98 136.5						
Potential Interfering Stations Included in above Scenario 1						
20A TX SWEETWATER USERRECORD01 APP						
Percent new IX = 0.0115%						
Worst case new IX 0.0115% Scenario 1						
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Table 1 KTXS-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 4 of 8)

Analysis of Interference to Affected Station 3					
Analysis of current record					
Channel	Call	City/State	Application	Ref. No.	
19	KIDY	SAN ANGELO TX	DTVPLN	-DTVP0703	
Stations Potentially Affecting This Station					
Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	KUPB	MIDLAND TX	192.7	PLN	DTVPLN -DTVP0656
18	KUPB	MIDLAND TX	192.7	CP	BPCDT -19991230AAK
19	KOCT	CARLSBAD NM	372.1	CP	BPCDT -19991101AEP
19	KOCT	CARLSBAD NM	372.1	PLN	DTVPLN -DTVP0695
19	KOCT	CARLSBAD NM	372.1	APP	BMPCDT -20080527ABX
20	KTXS-TV	SWEETWATER TX	99.4	PLN	DTVPLN -DTVP0742
20	KTXS-DT	SWEETWATER TX	99.4	APP	USERRECORD-01
Total scenarios = 1					
Result key: 2					
Scenario	1	Affected station	3		
Before Analysis					
Results for: 19A TX SAN ANGELO DTVPLN DTVP0703 PLN					
HAAT 277.0 m, ATV ERP 1000.0 kW					
		POPULATION	AREA (sq km)		
within Noise Limited Contour		133078	28427.3		
not affected by terrain losses		133030	28278.8		
lost to NTSC IX		0	0.0		
lost to additional IX by ATV		390	393.3		
lost to ATV IX only		390	393.3		
lost to all IX		390	393.3		
Potential Interfering Stations Included in above Scenario					1
20A TX SWEETWATER DTVPLN DTVP0742 PLN					
After Analysis					
Results for: 19A TX SAN ANGELO DTVPLN DTVP0703 PLN					
HAAT 277.0 m, ATV ERP 1000.0 kW					
		POPULATION	AREA (sq km)		
within Noise Limited Contour		133078	28427.3		
not affected by terrain losses		133030	28278.8		
lost to NTSC IX		0	0.0		
lost to additional IX by ATV		526	509.7		
lost to ATV IX only		526	509.7		
lost to all IX		526	509.7		
Potential Interfering Stations Included in above Scenario					1
20A TX SWEETWATER USERRECORD01 APP					
Percent new IX = 0.1025%					
Worst case new IX 0.1025% Scenario 1					
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Table 1 KTXS-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 8)

Analysis of Interference to Affected Station 4

Analysis of current record
Channel Call City/State Application Ref. No.
20 KVIH-TV CLOVIS NM BPCDT -19991029ACF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	KOCT	CARLSBAD NM	177.7	CP	BPCDT -19991101AEP
19	KOCT	CARLSBAD NM	177.7	PLN	DTVPLN -DTVP0695
19	KOCT	CARLSBAD NM	177.7	APP	BMPCDT -20080527ABX
19	KAMR-TV	AMARILLO TX	184.5	CP MOD	BMPCDT -20070125ABO
19	KAMR-TV	AMARILLO TX	184.5	PLN	DTVPLN -DTVP0700
20	KTXS-TV	SWEETWATER TX	354.9	PLN	DTVPLN -DTVP0742
21	KRWB-TV	ROSWELL NM	151.3	PLN	DTVPLN -DTVP0773
20	KTXS-DT	SWEETWATER TX	354.9	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record
Channel Call City/State Application Ref. No.
20 KVIH-TV CLOVIS NM DTVPLN -DTVP0735

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	KOCT	CARLSBAD NM	177.7	CP	BPCDT -19991101AEP
19	KOCT	CARLSBAD NM	177.7	PLN	DTVPLN -DTVP0695
19	KOCT	CARLSBAD NM	177.7	APP	BMPCDT -20080527ABX
19	KAMR-TV	AMARILLO TX	184.4	CP MOD	BMPCDT -20070125ABO
19	KAMR-TV	AMARILLO TX	184.4	PLN	DTVPLN -DTVP0700
20	KTXS-TV	SWEETWATER TX	354.9	PLN	DTVPLN -DTVP0742
21	KRWB-TV	ROSWELL NM	151.3	PLN	DTVPLN -DTVP0773
20	KTXS-DT	SWEETWATER TX	354.9	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record
Channel Call City/State Application Ref. No.
20 KWBU-TV WACO TX BLEDT -20060622AAS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	KLTL-TV	LAKE CHARLES LA	427.0	LIC	BLEDT -20040914ABL
20	KLTL-TV	LAKE CHARLES LA	427.0	PLN	DTVPLN -DTVP0726
20	KTXS-TV	SWEETWATER TX	287.6	PLN	DTVPLN -DTVP0742
21	KXAN-TV	AUSTIN TX	118.9	LIC	BLEDT -20050630AAG
21	KXAN-TV	AUSTIN TX	118.9	PLN	DTVPLN -DTVP0785

Table 1 KTXS-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 8)

20 KTXS-DT SWEETWATER TX 287.6 APP USERRECORD-01

Total scenarios = 2

Result key: 3
Scenario 1 Affected station 6
Before Analysis

Results for: 20A TX WACO BLEDT 20060622AAS LIC
HAAT 319.0 m, ATV ERP 700.0 kW
POPULATION AREA (sq km)
687575 26168.5
within Noise Limited Contour
not affected by terrain losses 685728 26023.8
lost to NTSC IX 0 0.0
lost to additional IX by ATV 6105 470.2
lost to ATV IX only 6105 470.2
lost to all IX 6105 470.2

Potential Interfering Stations Included in above Scenario 1

21A TX AUSTIN BLCDDT 20050630AAG LIC
20A TX SWEETWATER DTVPLN DTVP0742 PLN

After Analysis

Results for: 20A TX WACO BLEDT 20060622AAS LIC
HAAT 319.0 m, ATV ERP 700.0 kW
POPULATION AREA (sq km)
687575 26168.5
within Noise Limited Contour
not affected by terrain losses 685728 26023.8
lost to NTSC IX 0 0.0
lost to additional IX by ATV 6120 486.3
lost to ATV IX only 6120 486.3
lost to all IX 6120 486.3

Potential Interfering Stations Included in above Scenario 1

21A TX AUSTIN BLCDDT 20050630AAG LIC
20A TX SWEETWATER USERRECORD01 APP

Percent new IX = 0.0022%

Worst case new IX 0.0022% Scenario 1

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Analysis of Interference to Affected Station 7

Analysis of current record
Channel Call City/State Application Ref. No.
20 KWBU-TV WACO TX DTVPLN -DTVP0743

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	KLTL-TV	LAKE CHARLES LA	427.0	LIC	BLEDT -20040914ABL
20	KLTL-TV	LAKE CHARLES LA	427.0	PLN	DTVPLN -DTVP0726
20	KTXS-TV	SWEETWATER TX	287.6	PLN	DTVPLN -DTVP0742
21	KXAN-TV	AUSTIN TX	118.9	LIC	BLEDDT -20050630AAG

Table 1 KTXS-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 7 of 8)

21	KXAN-TV	AUSTIN TX	118.9	PLN	DTVPLN	-DTVP0785
20	KTXS-DT	SWEETWATER TX	287.6	APP	USERRECORD-01	

Total scenarios = 2

Result key: 5
Scenario 1 Affected station 7
Before Analysis

Results for: 20A TX WACO	DTVPLN	DTVP0743	PLN
HAAT 319.0 m, ATV ERP 700.0 kW			
POPULATION	AREA (sq km)		
within Noise Limited Contour	687575	26168.5	
not affected by terrain losses	685728	26023.8	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	6105	470.2	
lost to ATV IX only	6105	470.2	
lost to all IX	6105	470.2	

Potential Interfering Stations Included in above Scenario 1

21A TX AUSTIN	BLCDD	20050630AAG	LIC
20A TX SWEETWATER	DTVPLN	DTVP0742	PLN

After Analysis

Results for: 20A TX WACO	DTVPLN	DTVP0743	PLN
HAAT 319.0 m, ATV ERP 700.0 kW			
POPULATION	AREA (sq km)		
within Noise Limited Contour	687575	26168.5	
not affected by terrain losses	685728	26023.8	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	6120	486.3	
lost to ATV IX only	6120	486.3	
lost to all IX	6120	486.3	

Potential Interfering Stations Included in above Scenario 1

21A TX AUSTIN	BLCDD	20050630AAG	LIC
20A TX SWEETWATER	USERRECORD01		APP

Percent new IX = 0.0022%

Worst case new IX 0.0022% Scenario 1

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Analysis of Interference to Affected Station 8

Analysis of current record
Channel Call City/State Application Ref. No.
20 K20DN WICHITA FALLS TX BLTTL -19931112IA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	K20HO	LAWTON OK	80.3	LIC	BLTT -20050916AAW
20	KQCW	MUSKOGEE OK	319.8	APP	BPCDD -20080317AFI
20	KQCW	MUSKOGEE OK	319.8	PLN	DTVPLN -DTVP0739

Table 1 KTXS-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 8 of 8)

20	960920YP	SHERMAN TX	147.2	APP	BPCD	-19960920YP
20	KTXS-TV	SWEETWATER TX	223.8	LIC	BLCDD	-20060817ACW
20	KTXS-TV	SWEETWATER TX	223.8	PLN	DTVPLN	-DTVP0742
20	KTXS-TV	SWEETWATER TX	223.8	CP	BPCD	-20071127ACP
20	KWBU-TV	WACO TX	307.1	LIC	BLED	-20060622AAS
20	KWBU-TV	WACO TX	307.1	PLN	DTVPLN	-DTVP0743
22	KAUZ-TV	WICHITA FALLS TX	4.1	CP	BPCD	-19991028ADQ
22	KAUZ-TV	WICHITA FALLS TX	4.1	PLN	DTVPLN	-DTVP0827
28	KFDX-TV	WICHITA FALLS TX	6.1	CP MOD	BMPCDD	-20070621ABP
28	KFDX-TV	WICHITA FALLS TX	6.1	PLN	DTVPLN	-DTVP1060
35	KJBO-LP	WICHITA FALLS TX	4.5	LIC	BLTTL	-19900423JN
20	KTXS-DT	SWEETWATER TX	223.8	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.
20 KTXS-DT SWEETWATER TX USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	KIDY	SAN ANGELO TX	99.4	CP	BPCDD -19991029AFV
19	KIDY	SAN ANGELO TX	99.4	PLN	DTVPLN -DTVP0703
20	KVIH-TV	CLOVIS NM	354.9	CP	BPCDD -19991029ACF
20	KVIH-TV	CLOVIS NM	354.9	PLN	DTVPLN -DTVP0735
20	KWBU-TV	WACO TX	287.6	LIC	BLED -20060622AAS
20	KWBU-TV	WACO TX	287.6	PLN	DTVPLN -DTVP0743

Total scenarios = 8

Result key: 14
Scenario 8 Affected station 9
Before Analysis

Results for: 20A TX SWEETWATER	USERRECORD01	APP
HAAT 439.0 m, ATV ERP 700.0 kW		
POPULATION	AREA (sq km)	
within Noise Limited Contour	260025	37930.1
not affected by terrain losses	258280	37555.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	13367	2137.9
lost to ATV IX only	13367	2137.9
lost to all IX	13367	2137.9

Potential Interfering Stations Included in above Scenario 8

19A TX SAN ANGELO	DTVPLN	DTVP0703	PLN
20A NM CLOVIS	DTVPLN	DTVP0735	PLN
20A TX WACO	DTVPLN	DTVP0743	PLN

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SECTION III-D - DTV Engineering**Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.**

Pre-Transition Certification Checklist: 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.

Post-Transition Expedited Processing. 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.

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**TECHNICAL SPECIFICATIONS**

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.

TECH BOX

1.	Channel Number: DTV 20 Analog TV, if any 12
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 24 Seconds 48 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 100 Minutes 06 Seconds 25 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1052057 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 755.9 meters
6.	Overall Tower Height Above Ground Level: 325.8 meters
7.	Height of Radiation Center Above Ground Level: 317.8 meters
8.	Height of Radiation Center Above Average Terrain : 439.3 meters
9.	Maximum Effective Radiated Power (average power): 700 kW
10.	Antenna Specifications:

a. Manufacturer DIE Model TFU-24GTH-R O4	
b. Electrical Beam Tilt: 0.75 degrees <input type="checkbox"/> Not Applicable	
c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).	[Exhibit 42]
d. Polarization: <input checked="" type="radio"/> Horizontal <input type="radio"/> Circular <input type="radio"/> Elliptical	
e. Directional Antenna Relative Field Values: <input checked="" type="checkbox"/> 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]	
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?	<input checked="" type="radio"/> Yes <input type="radio"/> No
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. (Applicable only if Certification Checklist item 3 is answered "No.")	[Exhibit 45]
13. Environmental Protection Act. Submit in an Exhibit the following: 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.	[Exhibit 46]
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 6/12/2008	
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).