

## **ENGINEERING EXHIBIT**

### **Amendment to “Maximization” Application to Modify Digital Television Station Construction Permit**

prepared for

#### **Gray Television Licensee, Inc.**

KAKE-DT Wichita, KS

Facility ID 65522

Ch. 10 56.5 kW 310 m

*Gray Television Licensee, Inc.* (“Gray”) is the licensee of television station KAKE-TV, analog Channel 10 and digital Channel 21, Wichita, KS. A Construction Permit (“CP”, BPCDT-20080312ABB) authorizes construction of the KAKE-DT post-transition digital facility on Channel 10, as established in Appendix B of the Seventh Report and Order in MB Docket 87-278. The CP authorizes operation with an effective radiated power (“ERP”) of 20.3 kW at 310 meters antenna height above average terrain (“HAAT”), with a nondirectional antenna.

A “maximization” application is pending (BMPCDT-20080609ACD) to modify the CP to specify an increased ERP of 60 kW with the currently authorized antenna system. That application was filed by June 20, 2008 in response to the FCC’s lifting of the August 3, 2004 “freeze” concerning expansion in service area.<sup>1</sup> The pending application was found to be mutually exclusive (“MX”) with another station’s maximization application filed by June 20, 2008. *Gray* herein amends the KAKE-DT application to reduce the proposed ERP to 56.5 kW in order to eliminate the MX situation.

The pending KAKE-DT 60 kW application would cause 0.55 percent interference to the KTUL-DT post-transition application facility (BPCDT-20080620AGA, Channel 10, Tulsa, OK). As amended herein, the KAKE-DT proposal at 56.5 kW would cause 0.49 percent interference to the

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<sup>1</sup>Public 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.

KTUL-DT application facility, which satisfies the FCC's 0.5 percent limit. The interference from KTUL-DT caused to KAKE-DT is less than 0.1 percent. Thus, the MX situation with KTUL-DT is cleared with the instant amendment.

The proposed digital Channel 10 operation will employ the existing non-directional shared antenna system licensed for KAKE-TV's analog Channel 10 and digital Channel 21. The antenna is a horizontally polarized Dielectric model TUV-28GTH/10HV-R-06/03. The antenna is top-mounted on the existing KAKE-TV antenna supporting structure, having FCC Antenna Structure Registration number 1039959. No change to the overall structure height and no tower work is required to carry out this proposal.

A map is supplied as **Figure 1**, which depicts the standard predicted coverage contours. This map includes the boundaries of Wichita, KAKE-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 43 dBμ contour.

The proposed KAKE-DT facility's predicted service population provides a 100.9 percent match of the Appendix B facility, as detailed in the table below.

**Post-Transition Population Summary**

Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	746,031	756,462
Not affected by terrain losses	745,201	752,498
Lost to all interference	778	1,072
Net DTV Service	<b>744,423</b>	<b>751,426</b>
Match of Appendix B	---	<b>100.94%</b>

A detailed interference study per OET Bulletin 69<sup>2</sup> 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. **Pursuant to §73.616(e)(1), FCC processing of this proposal is requested on the basis of a 1.0 km cell size.** 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 357 km distant at Grand Island, NE. 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 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 considering 20 percent antenna relative field in downward elevations (pattern data shows less than 20 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  $0.8 \mu\text{W}/\text{cm}^2$ , which is 0.4 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

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<sup>2</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 cell size of 1 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.

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.  
November 25, 2008

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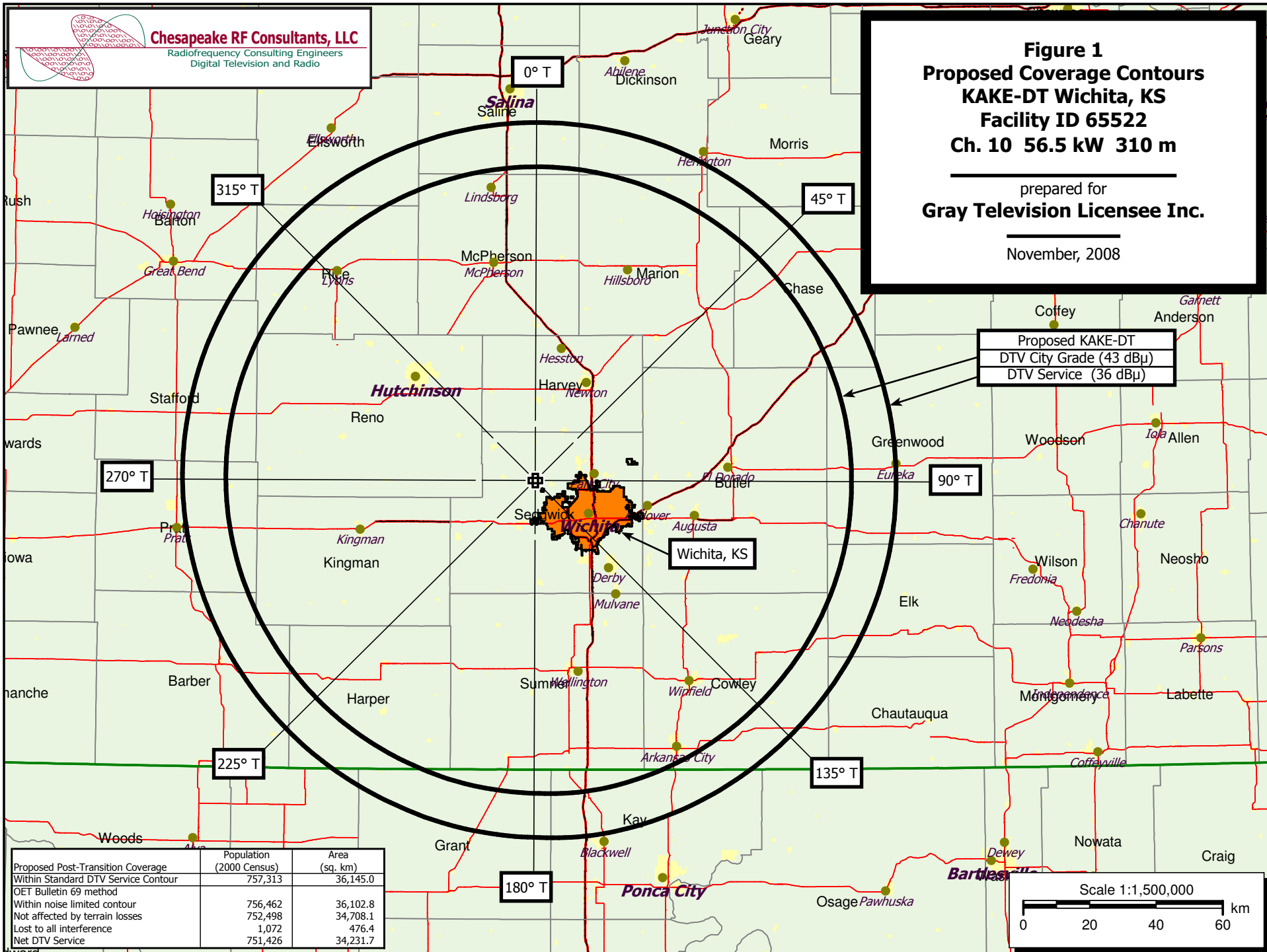
### List of Attachments

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 November 25, 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.*

**Figure 1**  
**Proposed Coverage Contours**  
**KAKE-DT Wichita, KS**  
**Facility ID 65522**  
**Ch. 10 56.5 kW 310 m**

prepared for  
**Gray Television Licensee Inc.**  
November, 2008



**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 1 of 14)

Cell Size = 1 km

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

Date: 11-25-2008 Time: 14:46:51

Record Selected for Analysis

KAKE-DT USERRECORD-01 WICHITA KS US  
Channel 10 ERP 56.5 kW HAAT 310. m RCAMSL 00733 m  
Latitude 037-46-53 Longitude 0097-31-08  
Status APP Zone 2 Border  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	56.500	313.6	107.4
45.0	56.500	319.0	107.9
90.0	56.500	323.4	108.2
135.0	56.500	323.3	108.2
180.0	56.500	310.2	107.2
225.0	56.500	288.2	105.7
270.0	56.500	293.0	105.9
315.0	56.500	308.1	107.0

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

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 2 of 14)

Cell Size = 1 km

Channel	Call	City/State	ARN
10	KAKE-DT	WICHITA KS	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	KFDF-CA	FORT SMITH AR	382.7	LIC	BLTVA	-20011031ABC
10	KBSL-TV	GOODLAND KS	397.5	PLN	DTVPLN	-DTVP0258
10	KBSL-TV	GOODLAND KS	397.5	CP MOD	BMPCDT	-20080313ABS
10	KOLR	SPRINGFIELD MO	407.8	PLN	DTVPLN	-DTVP0272
10	KOLR	SPRINGFIELD MO	407.8	CP MOD	BMPCDT	-20080619AJJ
10	KOLN	LINCOLN NE	337.0	PLN	DTVPLN	-DTVP0278
10	KOLN	LINCOLN NE	337.1	CP MOD	BMPCDT	-20080611AAN
10	KTUL	TULSA OK	263.1	APP	BPCDT	-20080620AGA
10	KTUL	TULSA OK	263.1	PLN	DTVPLN	-DTVP0286
10	KTUL	TULSA OK	263.1	LIC	BLCDT	-20030519ADL
11	KTWU	TOPEKA KS	209.0	CP	BPEDT	-20080317ADN
11	KTWU	TOPEKA KS	209.0	PLN	DTVPLN	-DTVP0317
11	KTWU	TOPEKA KS	209.0	APP	BMPEDT	-20080620AIK

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
10	KFDF-CA	FORT SMITH AR	BLTVA	-20011031ABC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KAFT	FAYETTEVILLE AR	50.9	LIC	BLEDT	-20041213ABJ
09	KAFT	FAYETTEVILLE AR	50.9	PLN	DTVPLN	-DTVP0178
09	KAFT	FAYETTEVILLE AR	50.9	APP	BPEDT	-20080620AFK
09	KWNL-CA	WINSLOW AR	42.8	LIC	BLTVL	-20000703AEF
10	KETZ	EL DORADO AR	328.4	APP	BMPEDT	-20080620AIC
10	KETZ	EL DORADO AR	328.4	PLN	DTVPLN	-DTVP0239
10	KTVE	EL DORADO AR	328.4	APP	BSTA	-20061025ADB
10	KTVE	EL DORADO AR	328.4	LIC	BLCT	-19870817KF
10	KETZ	EL DORADO AR	328.4	CP	BPEDT	-20080318ACS
10	KAKE-TV	WICHITA KS	382.7	PLN	DTVPLN	-DTVP0259
10	KAKE-TV	WICHITA KS	382.7	LIC	BMLCT	-20050623ABM
10	KOLR	SPRINGFIELD MO	234.2	LIC	BLCT	-2247
10	KOLR	SPRINGFIELD MO	234.2	PLN	DTVPLN	-DTVP0272
10	KOLR	SPRINGFIELD MO	234.2	CP MOD	BMPCDT	-20080619AJJ
10	KTEN	ADA OK	233.7	LIC	BLCT	-19841022KI
10	KTUL	TULSA OK	126.9	APP	BPCDT	-20080620AGA
10	KTUL	TULSA OK	126.9	PLN	DTVPLN	-DTVP0286
10	KTUL	TULSA OK	126.9	LIC	BLCDT	-20030519ADL
10	KAKE-DT	WICHITA KS	382.7	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 2

**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 3 of 14)

**Cell Size = 1 km**

Analysis of current record

Channel	Call	City/State	Application Ref. No.
10	KBSL-TV	GOODLAND KS	DTVPLN -DTV0258

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KPNE-TV	NORTH PLATTE NE	176.0	CP MOD	BMPEDT -20080620AAZ
09	KPNE-TV	NORTH PLATTE NE	175.8	PLN	DTVPLN -DTV0209
10	KKTV	COLORADO SPRINGS CO	296.3	LIC	BLCDDT -20030512ADQ
10	KKTV	COLORADO SPRINGS CO	296.3	PLN	DTVPLN -DTV0244
10	KAKE-TV	WICHITA KS	397.5	PLN	DTVPLN -DTV0259
10	KOLN	LINCOLN NE	400.2	PLN	DTVPLN -DTV0278
10	KOLN	LINCOLN NE	400.1	CP MOD	BMPEDT -20080611AAN
11	KSNB	GARDEN CITY KS	197.2	CP	BPCDDT -20080401ASQ
11	KSNB	GARDEN CITY KS	197.2	PLN	DTVPLN -DTV0316
10	KAKE-DT	WICHITA KS	397.5	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.
10	KBSL-TV	GOODLAND KS	BMPEDT -20080313ABS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KPNE-TV	NORTH PLATTE NE	176.0	CP MOD	BMPEDT -20080620AAZ
09	KPNE-TV	NORTH PLATTE NE	175.8	PLN	DTVPLN -DTV0209
10	KKTV	COLORADO SPRINGS CO	296.3	LIC	BLCDDT -20030512ADQ
10	KKTV	COLORADO SPRINGS CO	296.3	PLN	DTVPLN -DTV0244
10	KAKE-TV	WICHITA KS	397.5	PLN	DTVPLN -DTV0259
10	KOLN	LINCOLN NE	400.2	PLN	DTVPLN -DTV0278
10	KOLN	LINCOLN NE	400.1	CP MOD	BMPEDT -20080611AAN
11	KSNB	GARDEN CITY KS	197.2	CP	BPCDDT -20080401ASQ
11	KSNB	GARDEN CITY KS	197.2	PLN	DTVPLN -DTV0316
10	KAKE-DT	WICHITA KS	397.5	APP	USERRECORD-01

Total scenarios = 2

Result key: 1  
Scenario 1 Affected station 3  
Before Analysis

Results for: 10A KS GOODLAND BMPEDT 20080313ABS CP

HAAT	299.0 m, ATV ERP	26.5 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	47499	31425.6		
not affected by terrain losses	46824	30989.5		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	6	60.3		
lost to ATV IX only	6	60.3		
lost to all IX	6	60.3		

Potential Interfering Stations Included in above Scenario 1

**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 4 of 14)

**Cell Size = 1 km**

10A CO COLORADO SPRINGS BLCDDT 20030512ADQ LIC

After Analysis

Results for: 10A KS GOODLAND BMPEDT 20080313ABS CP  
HAAT 299.0 m, ATV ERP 26.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	47499	31425.6
not affected by terrain losses	46824	30989.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	7	70.2
lost to ATV IX only	7	70.2
lost to all IX	7	70.2

Potential Interfering Stations Included in above Scenario 1

10A CO COLORADO SPRINGS BLCDDT 20030512ADQ LIC  
10A KS WICHITA USERRECORD01 APP

Percent new IX = 0.0021%

Worst case new IX 0.0021% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
10	KOLR	SPRINGFIELD MO	DTVPLN -DTV0272

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KAFT	FAYETTEVILLE AR	183.4	LIC	BLEDT -20041213ABJ
09	KAFT	FAYETTEVILLE AR	183.4	PLN	DTVPLN -DTV0178
09	KAFT	FAYETTEVILLE AR	183.4	APP	BPEDT -20080620AFK
10	WGEM-TV	QUINCY IL	334.6	APP	BMPEDT -20080619ADS
10	WGEM-TV	QUINCY IL	334.6	PLN	DTVPLN -DTV0256
10	WGEM-TV	QUINCY IL	334.6	CP	BPCDDT -20080317ACL
10	KAKE-TV	WICHITA KS	407.8	PLN	DTVPLN -DTV0259
10	KTUL	TULSA OK	275.5	APP	BPCDDT -20080620AGA
10	KTUL	TULSA OK	275.5	PLN	DTVPLN -DTV0286
10	KTUL	TULSA OK	275.5	LIC	BLCDDT -20030519ADL
10	NEW	MEMPHIS TN	362.4	PLN	DTVPLN -DTV0294
10	NEW	MEMPHIS TN	362.4	APP	BMPEDT -20080620ABP
10	NEW	MEMPHIS TN	362.4	CP MOD	BMPEDT -20080317ACF
10	KAKE-DT	WICHITA KS	407.8	APP	USERRECORD-01

Total scenarios = 81

Result key: 3  
Scenario 1 Affected station 4  
Before Analysis

Results for: 10A MO SPRINGFIELD DTVPLN DTV0272 PLN

HAAT	573.0 m, ATV ERP	19.6 kW	POPULATION	AREA (sq km)
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**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 5 of 14)

**Cell Size = 1 km**

within Noise Limited Contour	873906	42765.0
not affected by terrain losses	844396	41324.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3095	239.0
lost to ATV IX only	3095	239.0
lost to all IX	3095	239.0

Potential Interfering Stations Included in above Scenario 1

9A AR FAYETTEVILLE	BLEDT	20041213ABJ	LIC
10A IL QUINCY	DTVPLN	DTVP0256	PLN
10A OK TULSA	DTVPLN	DTVP0286	PLN
10A TN MEMPHIS	DTVPLN	DTVP0294	PLN

After Analysis

Results for: 10A MO SPRINGFIELD	DTVPLN	DTVP0272	PLN
HAAT 573.0 m, ATV ERP 19.6 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	873906	42765.0	
not affected by terrain losses	844396	41324.9	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	3095	242.0	
lost to ATV IX only	3095	242.0	
lost to all IX	3095	242.0	

Potential Interfering Stations Included in above Scenario 1

9A AR FAYETTEVILLE	BLEDT	20041213ABJ	LIC
10A IL QUINCY	DTVPLN	DTVP0256	PLN
10A OK TULSA	DTVPLN	DTVP0286	PLN
10A TN MEMPHIS	DTVPLN	DTVP0294	PLN
10A KS WICHITA	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
10	KOLR	SPRINGFIELD MO	BMPCDT -20080619AJJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KAFT	FAYETTEVILLE AR	183.4	LIC	BLEDT -20041213ABJ
09	KAFT	FAYETTEVILLE AR	183.4	PLN	DTVPLN -DTVP0178
09	KAFT	FAYETTEVILLE AR	183.4	APP	BPEDT -20080620AFK
10	WGEM-TV	QUINCY IL	334.6	APP	BMPCDT -20080619ADS
10	WGEM-TV	QUINCY IL	334.6	PLN	DTVPLN -DTVP0256
10	WGEM-TV	QUINCY IL	334.6	CP	BPCDT -20080317ACL
10	KAKE-TV	WICHITA KS	407.8	PLN	DTVPLN -DTVP0259
10	KTUL	TULSA OK	275.5	APP	BPEDT -20080620AGA
10	KTUL	TULSA OK	275.5	PLN	DTVPLN -DTVP0286
10	KTUL	TULSA OK	275.5	LIC	BLCDT -20030519ADL
10	NEW	MEMPHIS TN	362.4	PLN	DTVPLN -DTVP0294

**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 6 of 14)

**Cell Size = 1 km**

10	NEW	MEMPHIS TN	362.4	APP	BMPCDT	-20080620ABP
10	NEW	MEMPHIS TN	362.4	CP MOD	BMPCDT	-20080317ACF
10	KAKE-DT	WICHITA KS	407.8	APP	USERRECORD-01	

Total scenarios = 54

Result key: 121  
Scenario 38 Affected station 5  
Before Analysis

Results for: 10A MO SPRINGFIELD	BMPCDT	20080619AJJ	CP
HAAT 631.0 m, ATV ERP 20.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	917803	45349.8	
not affected by terrain losses	889120	43929.6	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	6572	457.1	
lost to ATV IX only	6572	457.1	
lost to all IX	6572	457.1	

Potential Interfering Stations Included in above Scenario 38

9A AR FAYETTEVILLE	BPEDT	20080620AFK	APP
10A IL QUINCY	BMPCDT	20080619ADS	APP
10A OK TULSA	BPCDT	20080620AGA	APP
10A TN MEMPHIS	BMPCDT	20080620ABP	APP
10A KS WICHITA	DTVPLN	DTVP0259	PLN

After Analysis

Results for: 10A MO SPRINGFIELD	BMPCDT	20080619AJJ	CP
HAAT 631.0 m, ATV ERP 20.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	917803	45349.8	
not affected by terrain losses	889120	43929.6	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	6579	459.1	
lost to ATV IX only	6579	459.1	
lost to all IX	6579	459.1	

Potential Interfering Stations Included in above Scenario 38

9A AR FAYETTEVILLE	BPEDT	20080620AFK	APP
10A IL QUINCY	BMPCDT	20080619ADS	APP
10A OK TULSA	BPCDT	20080620AGA	APP
10A TN MEMPHIS	BMPCDT	20080620ABP	APP
10A KS WICHITA	USERRECORD01		APP

Percent new IX = 0.0008%

Worst case new IX 0.0008% Scenario 38

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
10	KOLN	LINCOLN NE	DTVPLN -DTVP0278



**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 7 of 14)

**Cell Size = 1 km**

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KCAU-TV	SIOUX CITY IA	213.3	CP	BPCDT	-20080620ABJ
09	KCAU-TV	SIOUX CITY IA	213.3	PLN	DTVPLN	-DTVP0195
10	KBSL-TV	GOODLAND KS	400.2	PLN	DTVPLN	-DTVP0258
10	KBSL-TV	GOODLAND KS	400.2	CP MOD	BMPCDT	-20080313ABS
10	KAKE-TV	WICHITA KS	337.0	PLN	DTVPLN	-DTVP0259
10	KTSD-TV	PIERRE SD	403.8	PLN	DTVPLN	-DTVP0292
10	KTSD-TV	PIERRE SD	403.8	CP MOD	BMPEDT	-20080618ABR
11	KTWU	TOPEKA KS	227.8	CP	BPEDT	-20080317ADN
11	KTWU	TOPEKA KS	227.8	PLN	DTVPLN	-DTVP0317
11	KTWU	TOPEKA KS	227.8	APP	BMPCDT	-20080620AIK
11	KGIN	GRAND ISLAND NE	138.8	PLN	DTVPLN	-DTVP0332
11	KGIN	GRAND ISLAND NE	138.9	APP	BMPCDT	-20080611AAP
11	KGIN	GRAND ISLAND NE	138.9	CP	BPCDT	-20080414AAU
10	KAKE-DT	WICHITA KS	337.0	APP	USERRECORD-01	

Total scenarios = 3

Result key: 139  
Scenario 2 Affected station 6  
Before Analysis

Results for: 10A NE LINCOLN	DTVPLN	DTVP0278	PLN
HAAT 454.0 m, ATV ERP 18.4 kW			
within Noise Limited Contour	POPULATION 927342	AREA (sq km) 37262.9	
not affected by terrain losses	883171	36737.6	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	19069	374.3	
lost to ATV IX only	19069	374.3	
lost to all IX	19069	374.3	

Potential Interfering Stations Included in above Scenario 2

11A NE GRAND ISLAND	BMPCDT	20080611AAP	APP
10A KS WICHITA	DTVPLN	DTVP0259	PLN

After Analysis

Results for: 10A NE LINCOLN	DTVPLN	DTVP0278	PLN
HAAT 454.0 m, ATV ERP 18.4 kW			
within Noise Limited Contour	POPULATION 927342	AREA (sq km) 37262.9	
not affected by terrain losses	883171	36737.6	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	19271	535.2	
lost to ATV IX only	19271	535.2	
lost to all IX	19271	535.2	

Potential Interfering Stations Included in above Scenario 2

11A NE GRAND ISLAND	BMPCDT	20080611AAP	APP
10A KS WICHITA	USERRECORD01		APP

Percent new IX = 0.0234%

Worst case new IX 0.0234% Scenario 2

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**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 8 of 14)

**Cell Size = 1 km**

Analysis of Interference to Affected Station 7

Channel	Call	City/State	Application	Ref. No.
10	KOLN	LINCOLN NE	BMPCDT	-20080611AAN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KCAU-TV	SIOUX CITY IA	213.3	CP	BPCDT	-20080620ABJ
09	KCAU-TV	SIOUX CITY IA	213.3	PLN	DTVPLN	-DTVP0195
10	KBSL-TV	GOODLAND KS	400.1	PLN	DTVPLN	-DTVP0258
10	KBSL-TV	GOODLAND KS	400.1	CP MOD	BMPCDT	-20080313ABS
10	KAKE-TV	WICHITA KS	337.1	PLN	DTVPLN	-DTVP0259
10	KTSD-TV	PIERRE SD	403.6	PLN	DTVPLN	-DTVP0292
10	KTSD-TV	PIERRE SD	403.7	CP MOD	BMPEDT	-20080618ABR
11	KTWU	TOPEKA KS	227.9	CP	BPEDT	-20080317ADN
11	KTWU	TOPEKA KS	227.9	PLN	DTVPLN	-DTVP0317
11	KTWU	TOPEKA KS	227.9	APP	BMPEDT	-20080620AIK
11	KGIN	GRAND ISLAND NE	138.7	PLN	DTVPLN	-DTVP0332
11	KGIN	GRAND ISLAND NE	138.8	APP	BMPCDT	-20080611AAP
11	KGIN	GRAND ISLAND NE	138.8	CP	BPCDT	-20080414AAU
10	KAKE-DT	WICHITA KS	337.1	APP	USERRECORD-01	

Total scenarios = 3

Result key: 142  
Scenario 2 Affected station 7  
Before Analysis

Results for: 10A NE LINCOLN	BMPCDT	20080611AAN	CP
HAAT 454.0 m, ATV ERP 28.0 kW			
within Noise Limited Contour	POPULATION 1093354	AREA (sq km) 40067.3	
not affected by terrain losses	1047540	39385.2	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	11086	536.2	
lost to ATV IX only	11086	536.2	
lost to all IX	11086	536.2	

Potential Interfering Stations Included in above Scenario 2

11A NE GRAND ISLAND	BMPCDT	20080611AAP	APP
10A KS WICHITA	DTVPLN	DTVP0259	PLN

After Analysis

Results for: 10A NE LINCOLN	BMPCDT	20080611AAN	CP
HAAT 454.0 m, ATV ERP 28.0 kW			
within Noise Limited Contour	POPULATION 1093354	AREA (sq km) 40067.3	
not affected by terrain losses	1047540	39385.2	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	11698	700.0	
lost to ATV IX only	11698	700.0	
lost to all IX	11698	700.0	

Potential Interfering Stations Included in above Scenario 2

11A NE GRAND ISLAND	BMPCDT	20080611AAP	APP
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**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 9 of 14)

**Cell Size = 1 km**

10A KS WICHITA USERRECORD01 APP

Percent new IX = 0.0590%

Worst case new IX 0.0590% Scenario 2

#####

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
10	KTUL	TULSA OK	BPCDT	-20080620AGA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KAFT	FAYETTEVILLE AR	143.9	LIC	BLEDT	-20041213ABJ
09	KAFT	FAYETTEVILLE AR	143.9	PLN	DTVPLN	-DTVP0178
09	KAFT	FAYETTEVILLE AR	143.9	APP	BPEDT	-20080620AFK
09	KWTV	OKLAHOMA CITY OK	176.0	APP	BMPCDT	-20080619ADT
09	KWTV	OKLAHOMA CITY OK	176.0	PLN	DTVPLN	-DTVP0215
09	KWTV	OKLAHOMA CITY OK	176.0	CP	BPCDT	-20080317AFP
10	KAKE-TV	WICHITA KS	263.1	PLN	DTVPLN	-DTVP0259
10	KOLR	SPRINGFIELD MO	275.5	PLN	DTVPLN	-DTVP0272
10	KOLR	SPRINGFIELD MO	275.5	CP MOD	BMPCDT	-20080619AJJ
11	KOED-TV	TULSA OK	7.9	CP MOD	BMPCDT	-20080620ABR
11	KOED-TV	TULSA OK	7.9	PLN	DTVPLN	-DTVP0338
10	KAKE-DT	WICHITA KS	263.1	APP	USERRECORD-01	

Total scenarios = 36

Result key: 174

Scenario 31 Affected station 8  
Before Analysis

Results for: 10A OK TULSA BPCDT 20080620AGA APP

	POPULATION	AREA (sq km)
HAAT 578.0 m, ATV ERP 15.0 kW		
within Noise Limited Contour	1303796	41296.3
not affected by terrain losses	1284329	39856.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15739	1247.2
lost to ATV IX only	15739	1247.2
lost to all IX	15739	1247.2

Potential Interfering Stations Included in above Scenario 31

9A AR FAYETTEVILLE	BPEDT	20080620AFK	APP
9A OK OKLAHOMA CITY	DTVPLN	DTVP0215	PLN
10A MO SPRINGFIELD	BMPCDT	20080619AJJ	CP
11A OK TULSA	BMPCDT	20080620ABR	CP
10A KS WICHITA	DTVPLN	DTVP0259	PLN

After Analysis

Results for: 10A OK TULSA BPCDT 20080620AGA APP

	POPULATION	AREA (sq km)
HAAT 578.0 m, ATV ERP 15.0 kW		
within Noise Limited Contour	1303796	41296.3

**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 10 of 14)

**Cell Size = 1 km**

not affected by terrain losses	1284329	39856.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	21974	1796.3
lost to ATV IX only	21974	1796.3
lost to all IX	21974	1796.3

Potential Interfering Stations Included in above Scenario 31

9A AR FAYETTEVILLE	BPEDT	20080620AFK	APP
9A OK OKLAHOMA CITY	DTVPLN	DTVP0215	PLN
10A MO SPRINGFIELD	BMPCDT	20080619AJJ	CP
11A OK TULSA	BMPCDT	20080620ABR	CP
10A KS WICHITA	USERRECORD01		APP

Percent new IX = 0.4915%

Worst case new IX 0.4915% Scenario 31

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
10	KTUL	TULSA OK	DTVPLN	-DTVP0286

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KAFT	FAYETTEVILLE AR	143.9	LIC	BLEDT	-20041213ABJ
09	KAFT	FAYETTEVILLE AR	143.9	PLN	DTVPLN	-DTVP0178
09	KAFT	FAYETTEVILLE AR	143.9	APP	BPEDT	-20080620AFK
09	KWTV	OKLAHOMA CITY OK	176.0	APP	BMPCDT	-20080619ADT
09	KWTV	OKLAHOMA CITY OK	176.0	PLN	DTVPLN	-DTVP0215
09	KWTV	OKLAHOMA CITY OK	176.0	CP	BPCDT	-20080317AFP
10	KAKE-TV	WICHITA KS	263.1	PLN	DTVPLN	-DTVP0259
10	KOLR	SPRINGFIELD MO	275.5	PLN	DTVPLN	-DTVP0272
10	KOLR	SPRINGFIELD MO	275.5	CP MOD	BMPCDT	-20080619AJJ
11	KOED-TV	TULSA OK	7.9	CP MOD	BMPCDT	-20080620ABR
11	KOED-TV	TULSA OK	7.9	PLN	DTVPLN	-DTVP0338
10	KAKE-DT	WICHITA KS	263.1	APP	USERRECORD-01	

Total scenarios = 12

Result key: 189

Scenario 10 Affected station 9  
Before Analysis

Results for: 10A OK TULSA DTVPLN DTVP0286 PLN

	POPULATION	AREA (sq km)
HAAT 542.0 m, ATV ERP 6.9 kW		
within Noise Limited Contour	1202402	30701.6
not affected by terrain losses	1185389	29789.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	31198	1341.5
lost to ATV IX only	31198	1341.5
lost to all IX	31198	1341.5

Potential Interfering Stations Included in above Scenario 10

**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 11 of 14)

**Cell Size = 1 km**

9A AR FAYETTEVILLE	BPEDT	20080620AFK	APP
10A MO SPRINGFIELD	DTVPLN	DTVP0272	PLN
11A OK TULSA	DTVPLN	DTVP0338	PLN
10A KS WICHITA	DTVPLN	DTVP0259	PLN

After Analysis

Results for: 10A OK TULSA	DTVPLN	DTVP0286	PLN
HAAT 542.0 m, ATV ERP	6.9 kW		
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1202402	30701.6	
not affected by terrain losses	1185389	29789.1	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	36432	1782.5	
lost to ATV IX only	36432	1782.5	
lost to all IX	36432	1782.5	

Potential Interfering Stations Included in above Scenario 10

9A AR FAYETTEVILLE	BPEDT	20080620AFK	APP
10A MO SPRINGFIELD	DTVPLN	DTVP0272	PLN
11A OK TULSA	DTVPLN	DTVP0338	PLN
10A KS WICHITA	USERRECORD01		APP

Percent new IX = 0.4535%

Worst case new IX 0.4535% Scenario 10

#####

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
10	KTUL	TULSA OK	BLCDDT	-20030519ADL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KAFT	FAYETTEVILLE AR	143.9	LIC	BLEDT	-20041213ABJ
09	KAFT	FAYETTEVILLE AR	143.9	PLN	DTVPLN	-DTVP0178
09	KAFT	FAYETTEVILLE AR	143.9	APP	BPEDT	-20080620AFK
09	KWTV	OKLAHOMA CITY OK	176.0	APP	BMPCDDT	-20080619ADT
09	KWTV	OKLAHOMA CITY OK	176.0	PLN	DTVPLN	-DTVP0215
09	KWTV	OKLAHOMA CITY OK	176.0	CP	BPCDDT	-20080317AFP
10	KAKE-TV	WICHITA KS	263.1	PLN	DTVPLN	-DTVP0259
10	KOLR	SPRINGFIELD MO	275.5	PLN	DTVPLN	-DTVP0272
10	KOLR	SPRINGFIELD MO	275.5	CP MOD	BMPCDDT	-20080619AJJ
11	KOED-TV	TULSA OK	7.9	CP MOD	BMPEDT	-20080620ABR
11	KOED-TV	TULSA OK	7.9	PLN	DTVPLN	-DTVP0338
10	KAKE-DT	WICHITA KS	263.1	APP	USERRECORD-01	

Total scenarios = 12

Result key: 201  
Scenario 10 Affected station  
Before Analysis

Results for: 10A OK TULSA	BLCDDT	20030519ADL	LIC
HAAT 542.0 m, ATV ERP	6.9 kW		

**Table 1 KAKE-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 12 of 14)

**Cell Size = 1 km**

	POPULATION	AREA (sq km)
within Noise Limited Contour	1202402	30701.6
not affected by terrain losses	1185389	29789.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	31198	1341.5
lost to ATV IX only	31198	1341.5
lost to all IX	31198	1341.5

Potential Interfering Stations Included in above Scenario 10

9A AR FAYETTEVILLE	BPEDT	20080620AFK	APP
10A MO SPRINGFIELD	DTVPLN	DTVP0272	PLN
11A OK TULSA	DTVPLN	DTVP0338	PLN
10A KS WICHITA	DTVPLN	DTVP0259	PLN

After Analysis

Results for: 10A OK TULSA	BLCDDT	20030519ADL	LIC
HAAT 542.0 m, ATV ERP	6.9 kW		
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1202402	30701.6	
not affected by terrain losses	1185389	29789.1	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	36432	1782.5	
lost to ATV IX only	36432	1782.5	
lost to all IX	36432	1782.5	

Potential Interfering Stations Included in above Scenario 10

9A AR FAYETTEVILLE	BPEDT	20080620AFK	APP
10A MO SPRINGFIELD	DTVPLN	DTVP0272	PLN
11A OK TULSA	DTVPLN	DTVP0338	PLN
10A KS WICHITA	USERRECORD01		APP

Percent new IX = 0.4535%

Worst case new IX 0.4535% Scenario 10

#####

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
11	KTWU	TOPEKA KS	BPEDT	-20080317ADN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	KAKE-TV	WICHITA KS	209.0	PLN	DTVPLN	-DTVP0259
10	KOLN	LINCOLN NE	227.8	PLN	DTVPLN	-DTVP0278
10	KOLN	LINCOLN NE	227.9	CP MOD	BMPCDDT	-20080611AAN
11	KDIN-TV	DES MOINES IA	355.2	CP MOD	BMPEDT	-20080620AHP
11	KGIN	GRAND ISLAND NE	309.9	PLN	DTVPLN	-DTVP0313
11	KGIN	GRAND ISLAND NE	309.9	PLN	DTVPLN	-DTVP0332
11	KGIN	GRAND ISLAND NE	309.8	APP	BMPCDDT	-20080611AAP
11	KGIN	GRAND ISLAND NE	309.8	CP	BPCDDT	-20080414AAU
11	KOED-TV	TULSA OK	338.3	CP MOD	BMPEDT	-20080620ABR
11	KOED-TV	TULSA OK	338.3	PLN	DTVPLN	-DTVP0338
12	KWCH-TV	HUTCHINSON KS	206.5	PLN	DTVPLN	-DTVP0377

Table 1 KAKE-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 13 of 14)

Cell Size = 1 km

12	KWCH-TV	HUTCHINSON KS	206.5	CP	BPCDT	-20080313ACP
12	KSQA	TOPEKA KS	0.0	PLN	DTVPLN	-DTVP0378
10	KAKE-DT	WICHITA KS	209.0	APP	USERRECORD-01	

Proposal causes no interference

#####

## Analysis of Interference to Affected Station 12

## Analysis of current record

Channel	Call	City/State	Application Ref. No.
11	KTWU	TOPEKA KS	DTVPLN -DTVP0317

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
10	KAKE-TV	WICHITA KS	209.0	PLN	DTVPLN -DTVP0259
10	KOLN	LINCOLN NE	227.8	PLN	DTVPLN -DTVP0278
10	KOLN	LINCOLN NE	227.9	CP MOD	BMPEDT -20080611AAN
11	KDIN-TV	DES MOINES IA	355.1	CP MOD	BMPEDT -20080620AHP
11	KDIN-TV	DES MOINES IA	355.1	PLN	DTVPLN -DTVP0313
11	KGIN	GRAND ISLAND NE	309.8	PLN	DTVPLN -DTVP0332
11	KGIN	GRAND ISLAND NE	309.7	APP	BMPEDT -20080611AAP
11	KGIN	GRAND ISLAND NE	309.7	CP	BPCDT -20080414AAU
11	KOED-TV	TULSA OK	338.4	CP MOD	BMPEDT -20080620ABR
11	KOED-TV	TULSA OK	338.4	PLN	DTVPLN -DTVP0338
12	KWCH-TV	HUTCHINSON KS	206.5	PLN	DTVPLN -DTVP0377
12	KWCH-TV	HUTCHINSON KS	206.5	CP	BPCDT -20080313ACP
12	KSQA	TOPEKA KS	0.0	PLN	DTVPLN -DTVP0378
10	KAKE-DT	WICHITA KS	209.0	APP	USERRECORD-01

Proposal causes no interference

#####

## Analysis of Interference to Affected Station 13

## Analysis of current record

Channel	Call	City/State	Application Ref. No.
11	KTWU	TOPEKA KS	BMPEDT -20080620AIK

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
10	KAKE-TV	WICHITA KS	209.0	PLN	DTVPLN -DTVP0259
10	KOLN	LINCOLN NE	227.8	PLN	DTVPLN -DTVP0278
10	KOLN	LINCOLN NE	227.9	CP MOD	BMPEDT -20080611AAN
11	KDIN-TV	DES MOINES IA	355.2	CP MOD	BMPEDT -20080620AHP
11	KDIN-TV	DES MOINES IA	355.2	PLN	DTVPLN -DTVP0313
11	KGIN	GRAND ISLAND NE	309.9	PLN	DTVPLN -DTVP0332
11	KGIN	GRAND ISLAND NE	309.8	APP	BMPEDT -20080611AAP
11	KGIN	GRAND ISLAND NE	309.8	CP	BPCDT -20080414AAU
11	KOED-TV	TULSA OK	338.3	CP MOD	BMPEDT -20080620ABR
11	KOED-TV	TULSA OK	338.3	PLN	DTVPLN -DTVP0338
12	KWCH-TV	HUTCHINSON KS	206.5	PLN	DTVPLN -DTVP0377
12	KWCH-TV	HUTCHINSON KS	206.5	CP	BPCDT -20080313ACP
12	KSQA	TOPEKA KS	0.0	PLN	DTVPLN -DTVP0378
10	KAKE-DT	WICHITA KS	209.0	APP	USERRECORD-01

Proposal causes no interference

Table 1 KAKE-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 14 of 14)

Cell Size = 1 km

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## Analysis of Interference to Affected Station 14

## Analysis of current record

Channel	Call	City/State	Application Ref. No.
10	KAKE-DT	WICHITA KS	USERRECORD-01

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
10	KBSL-TV	GOODLAND KS	397.5	PLN	DTVPLN -DTVP0258
10	KBSL-TV	GOODLAND KS	397.5	CP MOD	BMPEDT -20080313ABS
10	KOLR	SPRINGFIELD MO	407.8	PLN	DTVPLN -DTVP0272
10	KOLR	SPRINGFIELD MO	407.8	CP MOD	BMPEDT -20080619AJJ
10	KOLN	LINCOLN NE	337.0	PLN	DTVPLN -DTVP0278
10	KOLN	LINCOLN NE	337.1	CP MOD	BMPEDT -20080611AAN
10	KTUL	TULSA OK	263.1	APP	BPCDT -20080620AGA
10	KTUL	TULSA OK	263.1	PLN	DTVPLN -DTVP0286
10	KTUL	TULSA OK	263.1	LIC	BLCDT -20030519ADL
11	KTWU	TOPEKA KS	209.0	CP	BPEDT -20080317ADN
11	KTWU	TOPEKA KS	209.0	PLN	DTVPLN -DTVP0317
11	KTWU	TOPEKA KS	209.0	APP	BMPEDT -20080620AIK

Total scenarios = 6

Result key: 204  
Scenario 1 Affected station 14  
Before Analysis

Results for: 10A KS WICHITA	USERRECORD01	APP
HAAT 310.0 m, ATV ERP 56.5 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	756462	36102.8
not affected by terrain losses	752498	34708.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1072	476.4
lost to ATV IX only	1072	476.4
lost to all IX	1072	476.4

## Potential Interfering Stations Included in above Scenario 1

10A NE LINCOLN	DTVPLN	DTVP0278	PLN
10A OK TULSA	DTVPLN	DTVP0286	PLN

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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 <b>submit the Exhibit</b> 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 10 Analog TV, if any 10
2.	Zone: <input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 37 Minutes 46 Seconds 53 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 97 Minutes 31 Seconds 8 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1039959 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 417.6 meters
6.	Overall Tower Height Above Ground Level: 325.8 meters
7.	Height of Radiation Center Above Ground Level: 315.4 meters
8.	Height of Radiation Center Above Average Terrain : 309.8 meters
9.	Maximum Effective Radiated Power (average power): 56.5 kW

10.	Antenna Specifications:	
a.	Manufacturer DIE    Model TUV-28GTH/10HV-R-06/03	
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. <b>Exhibit required.</b>		[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 <b>Certification Checklist</b> 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?  If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.	<input checked="" type="radio"/> Yes <input type="radio"/> No [Exhibit 44]
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 <b>Certification Checklist</b> item 3 is answered "No.")	[Exhibit 45]
13.	<b>Environmental Protection Act. Submit in an Exhibit</b> the following: If <b>Certification Checklist</b> 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 <b>Certification Checklist</b> 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 <b>Certification Checklist</b> Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.	[Exhibit 46]
<b>PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.</b>		

### 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 11/25/2008	
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	