

ENGINEERING EXHIBIT

Application for Digital Television Station Construction Permit prepared for

Gray Television Licensee, LLC
WIBW-TV Topeka, KS
Facility ID 63160
Ch. 13 27 kW 413 m

Gray Television Licensee, LLC (“Gray”) is the licensee of television station WIBW-TV, pre-transition analog Channel 13 and digital Channel 44, Topeka, KS. A Construction Permit (“CP”, BMPCDT-20080613AAC) authorizes WIBW-TV to operate post-transition as digital on Channel 13 at 23 kW effective radiated power (“ERP”) at an antenna height above average terrain (“HAAT”) of 413 meters. A license application is pending (BLCDT-20090226ACE) to cover construction of the WIBW-TV digital Channel 13 facility. *Gray* herein seeks a new CP to increase the ERP to 27 kW while maintaining the authorized antenna location and height.

The transmitting antenna (RCA model TW-18A13-P) is located on an existing antenna supporting structure, having FCC Antenna Structure Registration number 1032648. No change to the overall structure height and no tower work are required to carry out this proposal.

A map is supplied as **Figure 1**, which depicts the standard predicted coverage contours. This map includes the location of Topeka, WIBW-TV’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 dB μ contour.

The proposed WIBW-TV facility’s predicted service population provides a 112.2 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	719,564	807,650
Not affected by terrain losses	677,668	762,881
Lost to all interference	3,099	5,929
Net DTV Service	674,569	756,952
Match of Appendix B	---	112.21%

A detailed interference study per OET Bulletin 69¹ 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 294 km distant at Grand Island, NE. This exceeds 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.

¹FCC 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.

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 the worst-case of 100% antenna relative field in downward elevations, the calculated power density attributable to the proposed facility at locations near the transmitter site at a height of two meters above ground level is $6.9 \mu\text{W}/\text{cm}^2$, which is 3.4 percent of the "uncontrolled / general public" maximum permissible 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. When the antenna's elevation pattern is considered, the calculated RF exposure level will be even lower.

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.



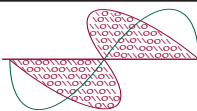
Joseph M. Davis, P.E.
June 26, 2009

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 26, 2009 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

Figure 1
Proposed Coverage Contours
WIBW-TV Topeka, KS
Facility ID 63160
Ch. 13 27 kW 413 m

prepared for
Gray Television Licensee, LLC

June, 2009

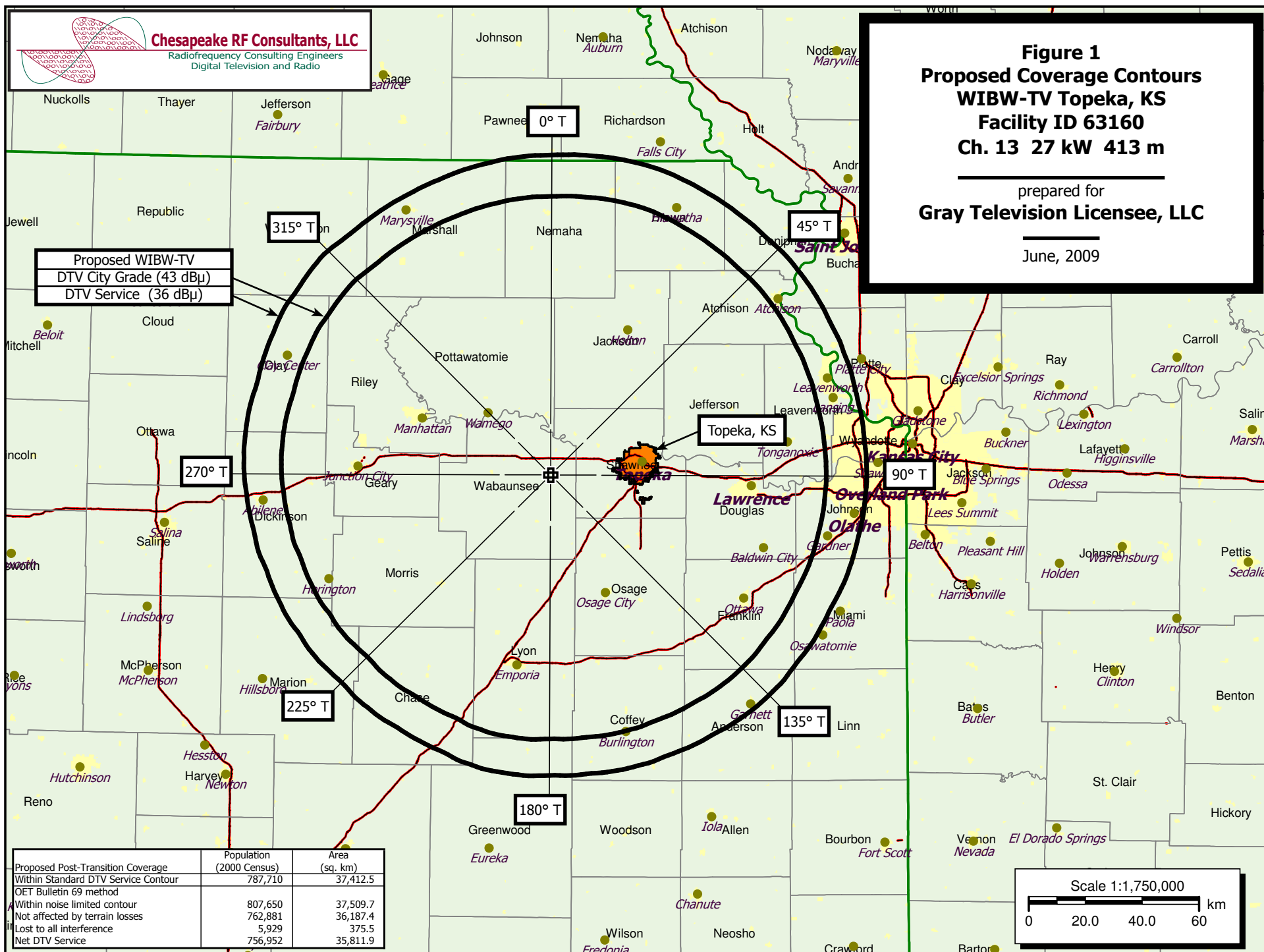


Table 1 WIBW-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 1 of 15)

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

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-24-2009 Time: 16:11:46

Record Selected for Analysis

WIBW-TV USERRECORD-01 TOPEKA KS US
Channel 13 ERP 27. kW HAAT 413. m RCAMSL 00760 m
Latitude 039-00-22 Longitude 0096-02-57
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)	36.0 dBu F(50,90) (km)
0.0	27.000	452.9	112.6
45.0	27.000	458.7	113.0
90.0	27.000	437.4	111.3
135.0	27.000	412.9	109.1
180.0	27.000	368.9	105.6
225.0	27.000	343.2	103.5
270.0	27.000	396.4	107.7
315.0	27.000	437.4	111.3

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

Table 1 WIBW-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 2 of 15)

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
13	WIBW-DT	TOPEKA KS	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KWCH-TV	HUTCHINSON KS	182.4	CP	BPCDT	-20080313ACP
12	KWCH-TV	HUTCHINSON KS	182.3	PLN	DTVPLN	-DTVP0375
12	KSQA	TOPEKA KS	25.5	PLN	DTVPLN	-DTVP0376
13	WHO-DT	DES MOINES IA	373.5	CP MOD	BMPCDT	-20080620AIM
13	WHO-TV	DES MOINES IA	375.3	PLN	DTVPLN	-DTVP0431
13	KFJX	PITTSBURG KS	230.5	CP MOD	BMPCDT	-20080612ABW
13	KFJX	PITTSBURG KS	230.5	PLN	DTVPLN	-DTVP0437
13	KHGI-TV	KEARNEY NE	302.6	CP MOD	BMPCDT	-20090122ABI
13	KHGI-TV	KEARNEY NE	302.6	PLN	DTVPLN	-DTVP0456
13	KHGI-DR	KEARNEY NE	302.6	APP	BPRM	-20080715AFI
13	KETA-TV	OKLAHOMA CITY OK	405.0	CP MOD	BMPEDT	-20080620ABQ
13	KETA-TV	OKLAHOMA CITY OK	399.6	PLN	DTVPLN	-DTVP0464

Analysis of Interference to Affected Station 1

Channel	Call	City/State	Application	Ref. No.
12	KWCH-TV	HUTCHINSON KS	BPCDT	-20080313ACP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KTWU	TOPEKA KS	206.5	CP MOD	BMPEDT	-20080620AIK
11	KTWU	TOPEKA KS	206.5	PLN	DTVPLN	-DTVP0315
12	KSQA	TOPEKA KS	206.5	PLN	DTVPLN	-DTVP0376
12	KUON-TV	LINCOLN NE	360.0	CP MOD	BMPEDT	-20080620AKC
12	KUON-TV	LINCOLN NE	360.0	PLN	DTVPLN	-DTVP0389
12	KSNK	MCCOOK NE	321.2	LIC	BLCDT	-20031017ABP
12	KSNK	MCCOOK NE	321.2	PLN	DTVPLN	-DTVP0390
13	WIBW-TV	TOPEKA KS	182.3	PLN	DTVPLN	-DTVP0438
13	WIBW-DT	TOPEKA KS	182.4	APP	USERRECORD-01	

Proposal causes no interference

Analysis of Interference to Affected Station 2

Channel	Call	City/State	Application	Ref. No.
12	KWCH-TV	HUTCHINSON KS	DTVPLN	-DTVP0375

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
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Table 1 WIBW-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 3 of 15)

11	KTWU	TOPEKA KS	206.5	CP MOD	BMPEDT	-20080620AIK
11	KTWU	TOPEKA KS	206.5	PLN	DTVPLN	-DTVP0315
12	KSQA	TOPEKA KS	206.5	PLN	DTVPLN	-DTVP0376
12	KUON-TV	LINCOLN NE	359.9	CP MOD	BMPEDT	-20080620AKC
12	KUON-TV	LINCOLN NE	359.9	PLN	DTVPLN	-DTVP0389
12	KSNK	MCCOOK NE	321.1	LIC	BLCDT	-20031017ABP
12	KSNK	MCCOOK NE	321.1	PLN	DTVPLN	-DTVP0390
13	WIBW-TV	TOPEKA KS	182.3	PLN	DTVPLN	-DTVP0438
13	WIBW-DT	TOPEKA KS	182.3	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.
12	KSQA	TOPEKA KS	DTVPLN	-DTVP0376

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KTWU	TOPEKA KS	0.0	CP MOD	BMPEDT	-20080620AIK
11	KTWU	TOPEKA KS	0.0	PLN	DTVPLN	-DTVP0315
12	KWCH-TV	HUTCHINSON KS	206.5	CP	BPCDT	-20080313ACP
12	KWCH-TV	HUTCHINSON KS	206.5	PLN	DTVPLN	-DTVP0375
12	KRCG	JEFFERSON MO	320.1	LIC	BLCDT	-20030709ABP
12	KRCG	JEFFERSON CITY MO	320.1	PLN	DTVPLN	-DTVP0382
12	KUON-TV	LINCOLN NE	238.0	CP MOD	BMPEDT	-20080620AKC
12	KUON-TV	LINCOLN NE	238.0	PLN	DTVPLN	-DTVP0389
13	KFXJ	PITTSBURG KS	224.7	CP MOD	BMPEDT	-20080612ABW
13	KFXJ	PITTSBURG KS	224.7	PLN	DTVPLN	-DTVP0437
13	WIBW-TV	TOPEKA KS	25.5	PLN	DTVPLN	-DTVP0438
13	WIBW-DT	TOPEKA KS	25.5	APP	USERRECORD-01	

Total scenarios = 16

Result key: 2

Scenario 2 Affected station 3

Before Analysis

Results for: 12A KS TOPEKA	DTVPLN	DTVP0376	PLN
HAAT 225.0 m, ATV ERP 3.2 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	512346	16768.6	
not affected by terrain losses	460016	16041.9	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	40353	2702.9	
lost to ATV IX only	40353	2702.9	
lost to all IX	40353	2702.9	

Potential Interfering Stations Included in above Scenario 2

11A KS TOPEKA	BMPEDT	20080620AIK	CP
12A KS HUTCHINSON	BPCDT	20080313ACP	CP
12A MO JEFFERSON	BLCDT	20030709ABP	LIC
12A NE LINCOLN	DTVPLN	DTVP0389	PLN
13A KS TOPEKA	DTVPLN	DTVP0438	PLN

After Analysis

Table 1 WIBW-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 4 of 15)

Results for: 12A KS TOPEKA	DTVPLN	DTVP0376	PLN
HAAT 225.0 m, ATV ERP 3.2 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	512346	16768.6	
not affected by terrain losses	460016	16041.9	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	42342	3154.1	
lost to ATV IX only	42342	3154.1	
lost to all IX	42342	3154.1	

Potential Interfering Stations Included in above Scenario 2

11A KS TOPEKA	BMPEDT	20080620AIK	CP
12A KS HUTCHINSON	BPCDT	20080313ACP	CP
12A MO JEFFERSON	BLCDT	20030709ABP	LIC
12A NE LINCOLN	DTVPLN	DTVP0389	PLN
13A KS TOPEKA	USERRECORD01		APP

Percent new IX = 0.4740%

Worst case new IX 0.4740% Scenario 2

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WHO-DT	DES MOINES IA	BMPEDT	-20080620AIM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KIIN	IOWA CITY IA	188.7	CP	BPEDT	-20080314ABQ
12	KIIN	IOWA CITY IA	188.7	PLN	DTVPLN	-DTVP0371
12	KIIN	IOWA CITY IA	188.7	APP	BMPEDT	-20080620AHR
13	WREX-TV	ROCKFORD IL	365.1	CP MOD	BMPEDT	-20080619ADW
13	WREX-TV	ROCKFORD IL	365.1	PLN	DTVPLN	-DTVP0433
13	WCFN	SPRINGFIELD IL	411.4	CP MOD	BMPEDT	-20080619AJM
13	WCFN	SPRINGFIELD IL	411.4	PLN	DTVPLN	-DTVP0434
13	WIBW-TV	TOPEKA KS	373.6	PLN	DTVPLN	-DTVP0438
13	KSFY-TV	SIOUX FALLS SD	305.0	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	305.0	PLN	DTVPLN	-DTVP0475
13	WEAU-TV	EAU CLAIRE WI	383.2	CP MOD	BMPEDT	-20090602AAQ
13	WEAU-TV	EAU CLAIRE WI	383.2	PLN	DTVPLN	-DTVP0489
13	WIBW-DT	TOPEKA KS	373.5	APP	USERRECORD-01	

Total scenarios = 16

Result key: 25

Scenario 9 Affected station 4

Before Analysis

Results for: 13A IA DES MOINES	BMPEDT	20080620AIM	CP
HAAT 600.0 m, ATV ERP 36.5 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1063223	49177.8	
not affected by terrain losses	1034463	48056.6	
lost to NTSC IX	0	0.0	

Table 1 WIBW-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 15)

lost to additional IX by ATV	4120	554.5
lost to ATV IX only	4120	554.5
lost to all IX	4120	554.5
Potential Interfering Stations Included in above Scenario 9		
12A IA IOWA CITY	BMPEDT	20080620AHR APP
13A IL ROCKFORD	BMPCDT	20080619ADW CP
13A SD SIOUX FALLS	BPCDT	20080408AEO CP
13A WI EAU CLAIRE	BMPCDT	20090602AAQ CP
13A KS TOPEKA	DTVPLN	DTVP0438 PLN
After Analysis		
Results for: 13A IA DES MOINES	BMPCDT	20080620AIM CP
HAAT 600.0 m, ATV ERP 36.5 kW		
POPULATION	AREA (sq km)	
within Noise Limited Contour	1063223	49177.8
not affected by terrain losses	1034463	48056.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4164	582.7
lost to ATV IX only	4164	582.7
lost to all IX	4164	582.7
Potential Interfering Stations Included in above Scenario 9		
12A IA IOWA CITY	BMPEDT	20080620AHR APP
13A IL ROCKFORD	BMPCDT	20080619ADW CP
13A SD SIOUX FALLS	BPCDT	20080408AEO CP
13A WI EAU CLAIRE	BMPCDT	20090602AAQ CP
13A KS TOPEKA	USERRECORD01	APP
Percent new IX =	0.0043%	
Worst case new IX	0.0043% Scenario	9
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Analysis of Interference to Affected Station 5

Analysis of current record			
Channel	Call	City/State	Application Ref. No.
13	WHO-TV	DES MOINES IA	DTVPLN -DTVP0431

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KIIN	IOWA CITY IA	188.9	CP	BPEDT -20080314ABQ
12	KIIN	IOWA CITY IA	188.9	PLN	DTVPLN -DTVP0371
12	KIIN	IOWA CITY IA	188.9	APP	BMPEDT -20080620AHR
13	WREX-TV	ROCKFORD IL	364.7	CP MOD	BMPCDT -20080619ADW
13	WREX-TV	ROCKFORD IL	364.7	PLN	DTVPLN -DTVP0433
13	WCFN	SPRINGFIELD IL	412.7	CP MOD	BMPCDT -20080619AJM
13	WCFN	SPRINGFIELD IL	412.7	PLN	DTVPLN -DTVP0434
13	WIBW-TV	TOPEKA KS	375.4	PLN	DTVPLN -DTVP0438
13	KSFY-TV	SIOUX FALLS SD	303.5	CP	BPCDT -20080408AEO
13	KSFY-TV	SIOUX FALLS SD	303.5	PLN	DTVPLN -DTVP0475
13	WEAU-TV	EAU CLAIRE WI	381.3	CP MOD	BMPCDT -20090602AAQ
13	WEAU-TV	EAU CLAIRE WI	381.3	PLN	DTVPLN -DTVP0489
13	WIBW-DT	TOPEKA KS	375.3	APP	USERRECORD-01

Table 1 WIBW-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 15)

Total scenarios =	16
Result key:	41
Scenario	9 Affected station 5
Before Analysis	
Results for: 13A IA DES MOINES	DTVPLN DTVP0431 PLN
HAAT 609.0 m, ATV ERP 36.1 kW	
POPULATION	AREA (sq km)
within Noise Limited Contour	1077046 49353.0
not affected by terrain losses	1062380 48200.1
lost to NTSC IX	0 0.0
lost to additional IX by ATV	24186 582.5
lost to ATV IX only	24186 582.5
lost to all IX	24186 582.5
Potential Interfering Stations Included in above Scenario 9	
12A IA IOWA CITY	BMPEDT 20080620AHR APP
13A IL ROCKFORD	BMPCDT 20080619ADW CP
13A SD SIOUX FALLS	BPCDT 20080408AEO CP
13A WI EAU CLAIRE	BMPCDT 20090602AAQ CP
13A KS TOPEKA	DTVPLN DTVP0438 PLN
After Analysis	
Results for: 13A IA DES MOINES	DTVPLN DTVP0431 PLN
HAAT 609.0 m, ATV ERP 36.1 kW	
POPULATION	AREA (sq km)
within Noise Limited Contour	1077046 49353.0
not affected by terrain losses	1062380 48200.1
lost to NTSC IX	0 0.0
lost to additional IX by ATV	24228 618.6
lost to ATV IX only	24228 618.6
lost to all IX	24228 618.6
Potential Interfering Stations Included in above Scenario 9	
12A IA IOWA CITY	BMPEDT 20080620AHR APP
13A IL ROCKFORD	BMPCDT 20080619ADW CP
13A SD SIOUX FALLS	BPCDT 20080408AEO CP
13A WI EAU CLAIRE	BMPCDT 20090602AAQ CP
13A KS TOPEKA	USERRECORD01 APP
Percent new IX =	0.0040%
Worst case new IX	0.0040% Scenario 9
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Analysis of Interference to Affected Station 6

Analysis of current record			
Channel	Call	City/State	Application Ref. No.
13	KFJX	PITTSBURG KS	BMPCDT -20080612ABW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
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Table 1 WIBW-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 7 of 15)

12	KSQA	TOPEKA KS	224.7	PLN	DTVPLN	-DTVP0376
13	KETG	ARCADELPHIA AR	395.5	LIC	BLEDT	-20040608AAX
13	KETG	ARCADELPHIA AR	395.5	PLN	DTVPLN	-DTVP0417
13	KETG	ARCADELPHIA AR	395.5	CP	BPEDT	-20080620AFO
13	KEMV	MOUNTAIN VIEW AR	266.6	LIC	BLEDT	-20060623ABO
13	KEMV	MOUNTAIN VIEW AR	266.6	PLN	DTVPLN	-DTVP0418
13	KEMV	MOUNTAIN VIEW AR	266.6	CP	BPEDT	-20080620AFQ
13	WIBW-TV	TOPEKA KS	230.5	PLN	DTVPLN	-DTVP0438
13	KETA-TV	OKLAHOMA CITY OK	311.2	CP MOD	BMPEDT	-20080620ABQ
13	KETA-TV	OKLAHOMA CITY OK	307.4	PLN	DTVPLN	-DTVP0464
13	WIBW-DT	TOPEKA KS	230.5	APP	USERRECORD-01	

Total scenarios = 6

Result key: 50

Scenario 2 Affected station 6
Before Analysis

Results for: 13A KS PITTSBURG BMPCDT 20080612ABW CP

HAAT 336.0 m, ATV ERP 4.5 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	468456	24716.6
not affected by terrain losses	463186	24149.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	8528	711.4
lost to ATV IX only	8528	711.4
lost to all IX	8528	711.4

Potential Interfering Stations Included in above Scenario 2

13A AR MOUNTAIN VIEW	BLEDT	20060623ABO	LIC
13A OK OKLAHOMA CITY	DTVPLN	DTVP0464	PLN
13A KS TOPEKA	DTVPLN	DTVP0438	PLN

After Analysis

Results for: 13A KS PITTSBURG BMPCDT 20080612ABW CP

HAAT 336.0 m, ATV ERP 4.5 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	468456	24716.6
not affected by terrain losses	463186	24149.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9831	907.3
lost to ATV IX only	9831	907.3
lost to all IX	9831	907.3

Potential Interfering Stations Included in above Scenario 2

13A AR MOUNTAIN VIEW	BLEDT	20060623ABO	LIC
13A OK OKLAHOMA CITY	DTVPLN	DTVP0464	PLN
13A KS TOPEKA	USERRECORD01		APP

Percent new IX = 0.2866%

Worst case new IX 0.2866% Scenario 2

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Analysis of Interference to Affected Station 7

Table 1 WIBW-TV OET Bulletin 69 Interference Study

(worst-case scenarios shown page 8 of 15)

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
13	KFJX	PITTSBURG KS	DTVPLN	-DTVP0437

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KSQA	TOPEKA KS	224.7	PLN	DTVPLN	-DTVP0376
13	KETG	ARCADELPHIA AR	395.5	LIC	BLEDT	-20040608AAX
13	KETG	ARCADELPHIA AR	395.5	PLN	DTVPLN	-DTVP0417
13	KETG	ARCADELPHIA AR	395.5	CP	BPEDT	-20080620AFO
13	KEMV	MOUNTAIN VIEW AR	266.6	LIC	BLEDT	-20060623ABO
13	KEMV	MOUNTAIN VIEW AR	266.6	PLN	DTVPLN	-DTVP0418
13	KEMV	MOUNTAIN VIEW AR	266.6	CP	BPEDT	-20080620AFQ
13	WIBW-TV	TOPEKA KS	230.5	PLN	DTVPLN	-DTVP0438
13	KETA-TV	OKLAHOMA CITY OK	311.2	CP MOD	BMPEDT	-20080620ABQ
13	KETA-TV	OKLAHOMA CITY OK	307.4	PLN	DTVPLN	-DTVP0464
13	WIBW-DT	TOPEKA KS	230.5	APP	USERRECORD-01	

Total scenarios = 6

Result key: 60

Scenario 6 Affected station 7
Before Analysis

Results for: 13A KS PITTSBURG DTVPLN DTVP0437 PLN

HAAT 302.0 m, ATV ERP 0.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	290391	11774.6
not affected by terrain losses	289922	11722.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	994	99.9
lost to ATV IX only	994	99.9
lost to all IX	994	99.9

Potential Interfering Stations Included in above Scenario 6

13A AR MOUNTAIN VIEW	BPEDT	20080620AFQ	CP
13A OK OKLAHOMA CITY	DTVPLN	DTVP0464	PLN
13A KS TOPEKA	DTVPLN	DTVP0438	PLN

After Analysis

Results for: 13A KS PITTSBURG DTVPLN DTVP0437 PLN

HAAT 302.0 m, ATV ERP 0.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	290391	11774.6
not affected by terrain losses	289922	11722.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2232	175.9
lost to ATV IX only	2232	175.9
lost to all IX	2232	175.9

Potential Interfering Stations Included in above Scenario 6

13A AR MOUNTAIN VIEW	BPEDT	20080620AFQ	CP
13A OK OKLAHOMA CITY	DTVPLN	DTVP0464	PLN
13A KS TOPEKA	USERRECORD01		APP

Percent new IX = 0.4285%

Worst case new IX 0.4285% Scenario 6

Table 1 WIBW-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 9 of 15)

#####

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KHGI-TV	KEARNEY NE	BMPCDT	-20090122ABI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KUON-TV	LINCOLN NE	209.6	CP MOD	BMPEDT	-20080620AKC
12	KUON-TV	LINCOLN NE	209.6	PLN	DTVPLN	-DTVP0389
12	KSNK	MCCOOK NE	180.7	LIC	BLCDT	-20031017ABP
12	KSNK	MCCOOK NE	180.7	PLN	DTVPLN	-DTVP0390
13	KUPK-TV	GARDEN CITY KS	368.5	CP MOD	BMPCDT	-20080609ACN
13	KUPK-TV	GARDEN CITY KS	368.6	PLN	DTVPLN	-DTVP0436
13	WIBW-TV	TOPEKA KS	302.6	PLN	DTVPLN	-DTVP0438
13	KTNE-TV	ALLIANCE NE	373.8	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	373.7	PLN	DTVPLN	-DTVP0455
13	KHGI-DR	KEARNEY NE	0.0	APP	BPRM	-20080715AFI
13	KPLO-TV	RELIANCE SD	372.6	LIC	BLCDT	-20030519AER
13	KPLO-TV	RELIANCE SD	372.6	PLN	DTVPLN	-DTVP0474
13	KSFY-TV	SIOUX FALLS SD	371.6	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	371.6	PLN	DTVPLN	-DTVP0475
13	WIBW-DT	TOPEKA KS	302.6	APP	USERRECORD-01	

Total scenarios = 24

Result key: 61
Scenario 1 Affected station 8
Before Analysis

Results for: 13A NE KEARNEY	BMPCDT	20090122ABI	CP
HAAT 340.0 m, ATV ERP 8.0 kW			
POPULATION	AREA (sq km)		
within Noise Limited Contour	213236	27300.3	
not affected by terrain losses	212753	26920.7	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	156	203.8	
lost to ATV IX only	156	203.8	
lost to all IX	156	203.8	

Potential Interfering Stations Included in above Scenario 1

13A KS GARDEN CITY	BMPCDT	20080609ACN	CP
13A NE ALLIANCE	BMPEDT	20080620AJD	CP
13A SD RELIANCE	BLCDT	20030519AER	LIC
13A SD SIOUX FALLS	BPCDT	20080408AEO	CP
13A KS TOPEKA	DTVPLN	DTVP0438	PLN

After Analysis

Results for: 13A NE KEARNEY	BMPCDT	20090122ABI	CP
HAAT 340.0 m, ATV ERP 8.0 kW			
POPULATION	AREA (sq km)		
within Noise Limited Contour	213236	27300.3	
not affected by terrain losses	212753	26920.7	

Table 1 WIBW-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 10 of 15)

lost to NTSC IX	0	0.0
lost to additional IX by ATV	205	259.7
lost to ATV IX only	205	259.7
lost to all IX	205	259.7

Potential Interfering Stations Included in above Scenario 1

13A KS GARDEN CITY	BMPCDT	20080609ACN	CP
13A NE ALLIANCE	BMPEDT	20080620AJD	CP
13A SD RELIANCE	BLCDT	20030519AER	LIC
13A SD SIOUX FALLS	BPCDT	20080408AEO	CP
13A KS TOPEKA	USERRECORD01		APP

Percent new IX = 0.0230%

Worst case new IX 0.0230% Scenario 1

#####

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KHGI-TV	KEARNEY NE	DTVPLN	-DTVP0456

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KUON-TV	LINCOLN NE	209.6	CP MOD	BMPEDT	-20080620AKC
12	KUON-TV	LINCOLN NE	209.6	PLN	DTVPLN	-DTVP0389
12	KSNK	MCCOOK NE	180.7	LIC	BLCDT	-20031017ABP
12	KSNK	MCCOOK NE	180.7	PLN	DTVPLN	-DTVP0390
13	KUPK-TV	GARDEN CITY KS	368.5	CP MOD	BMPCDT	-20080609ACN
13	KUPK-TV	GARDEN CITY KS	368.6	PLN	DTVPLN	-DTVP0436
13	WIBW-TV	TOPEKA KS	302.6	PLN	DTVPLN	-DTVP0438
13	KTNE-TV	ALLIANCE NE	373.8	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	373.7	PLN	DTVPLN	-DTVP0455
13	KHGI-DR	KEARNEY NE	0.0	APP	BPRM	-20080715AFI
13	KPLO-TV	RELIANCE SD	372.6	LIC	BLCDT	-20030519AER
13	KPLO-TV	RELIANCE SD	372.6	PLN	DTVPLN	-DTVP0474
13	KSFY-TV	SIOUX FALLS SD	371.6	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	371.6	PLN	DTVPLN	-DTVP0475
13	WIBW-DT	TOPEKA KS	302.6	APP	USERRECORD-01	

Total scenarios = 24

Result key: 85
Scenario 1 Affected station 9
Before Analysis

Results for: 13A NE KEARNEY	DTVPLN	DTVP0456	PLN
HAAT 340.0 m, ATV ERP 8.0 kW			
POPULATION	AREA (sq km)		
within Noise Limited Contour	213236	27300.3	
not affected by terrain losses	212753	26920.7	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	156	203.8	
lost to ATV IX only	156	203.8	
lost to all IX	156	203.8	

Table 1 WIBW-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 11 of 15)

Potential Interfering Stations Included in above Scenario 1

13A KS GARDEN CITY	BMPCDT	20080609ACN	CP
13A NE ALLIANCE	BMPEDT	20080620AJD	CP
13A SD RELIANCE	BLCDT	20030519AER	LIC
13A SD SIOUX FALLS	BPCDT	20080408AEO	CP
13A KS TOPEKA	DTVPLN	DTVP0438	PLN

After Analysis

Results for: 13A NE KEARNEY	DTVPLN	DTVP0456	PLN
HAAT 340.0 m, ATV ERP 8.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	213236	27300.3	
not affected by terrain losses	212753	26920.7	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	205	259.7	
lost to ATV IX only	205	259.7	
lost to all IX	205	259.7	

Potential Interfering Stations Included in above Scenario 1

13A KS GARDEN CITY	BMPCDT	20080609ACN	CP
13A NE ALLIANCE	BMPEDT	20080620AJD	CP
13A SD RELIANCE	BLCDT	20030519AER	LIC
13A SD SIOUX FALLS	BPCDT	20080408AEO	CP
13A KS TOPEKA	USERRECORD01		APP

Percent new IX = 0.0230%

Worst case new IX 0.0230% Scenario 1

#####

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KHGI-DR	KEARNEY NE	BPRM	-20080715AFI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KUON-TV	LINCOLN NE	209.6	CP MOD	BMPEDT	-20080620AKC
12	KUON-TV	LINCOLN NE	209.6	PLN	DTVPLN	-DTVP0389
12	KSNK	MCCOOK NE	180.7	LIC	BLCDT	-20031017ABP
12	KSNK	MCCOOK NE	180.7	PLN	DTVPLN	-DTVP0390
13	KUPK-TV	GARDEN CITY KS	368.5	CP MOD	BMPCDT	-20080609ACN
13	KUPK-TV	GARDEN CITY KS	368.6	PLN	DTVPLN	-DTVP0436
13	WIBW-TV	TOPEKA KS	302.6	PLN	DTVPLN	-DTVP0438
13	KTNE-TV	ALLIANCE NE	373.8	CP MOD	BMPEDT	-20080620AJD
13	KTNE-TV	ALLIANCE NE	373.7	PLN	DTVPLN	-DTVP0455
13	KHGI-TV	KEARNEY NE	0.0	CP MOD	BMPCDT	-20090122ABI
13	KHGI-TV	KEARNEY NE	0.0	PLN	DTVPLN	-DTVP0456
13	KPLO-TV	RELIANCE SD	372.6	LIC	BLCDT	-20030519AER
13	KPLO-TV	RELIANCE SD	372.6	PLN	DTVPLN	-DTVP0474
13	KSFY-TV	SIOUX FALLS SD	371.6	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	371.6	PLN	DTVPLN	-DTVP0475
13	WIBW-DT	TOPEKA KS	302.6	APP	USERRECORD-01	

Table 1 WIBW-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 12 of 15)

Total scenarios = 16

Result key: 109
Scenario 1 Affected station 10
Before Analysis

Results for: 13A NE KEARNEY	BPRM	20080715AFI	APP
HAAT 340.0 m, ATV ERP 8.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	213236	27300.3	
not affected by terrain losses	212753	26920.7	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	211685	26157.6	
lost to ATV IX only	211685	26157.6	
lost to all IX	211685	26157.6	

Potential Interfering Stations Included in above Scenario 1

13A KS GARDEN CITY	BMPCDT	20080609ACN	CP
13A NE ALLIANCE	BMPEDT	20080620AJD	CP
13A NE KEARNEY	BMPCDT	20090122ABI	CP
13A SD RELIANCE	BLCDT	20030519AER	LIC
13A SD SIOUX FALLS	BPCDT	20080408AEO	CP
13A KS TOPEKA	DTVPLN	DTVP0438	PLN

After Analysis

Results for: 13A NE KEARNEY	BPRM	20080715AFI	APP
HAAT 340.0 m, ATV ERP 8.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	213236	27300.3	
not affected by terrain losses	212753	26920.7	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	211685	26157.6	
lost to ATV IX only	211685	26157.6	
lost to all IX	211685	26157.6	

Potential Interfering Stations Included in above Scenario 1

13A KS GARDEN CITY	BMPCDT	20080609ACN	CP
13A NE ALLIANCE	BMPEDT	20080620AJD	CP
13A NE KEARNEY	BMPCDT	20090122ABI	CP
13A SD RELIANCE	BLCDT	20030519AER	LIC
13A SD SIOUX FALLS	BPCDT	20080408AEO	CP
13A KS TOPEKA	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

#####

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KETA-TV	OKLAHOMA CITY OK	BMPEDT	-20080620ABQ

Table 1 WIBW-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 13 of 15)

Stations Potentially Affecting This Station						
Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KXII	SHERMAN TX	180.2	CP MOD	BMPCDT	-20080609ACT
12	KXII	SHERMAN TX	180.2	PLN	DTVPLN	-DTVP0408
13	KUPK-TV	GARDEN CITY KS	366.8	CP MOD	BMPCDT	-20080609ACN
13	KUPK-TV	GARDEN CITY KS	366.8	PLN	DTVPLN	-DTVP0436
13	KFJX	PITTSBURG KS	311.2	CP MOD	BMPCDT	-20080612ABW
13	KFJX	PITTSBURG KS	311.2	PLN	DTVPLN	-DTVP0437
13	WIBW-TV	TOPEKA KS	404.9	PLN	DTVPLN	-DTVP0438
13	WIBW-DT	TOPEKA KS	405.0	APP	USERRECORD-01	

Total scenarios = 4

Result key: 126
Scenario 2 Affected station 11
Before Analysis

Results for: 13A OK OKLAHOMA CITY BMPEDT 20080620ABQ CP
HAAT 465.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1524696	44707.3
not affected by terrain losses	1517500	43590.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	428	108.9
lost to ATV IX only	428	108.9
lost to all IX	428	108.9

Potential Interfering Stations Included in above Scenario 2

12A TX SHERMAN	BMPCDT	20080609ACT	CP
13A KS GARDEN CITY	BMPCDT	20080609ACN	CP
13A KS PITTSBURG	DTVPLN	DTVP0437	PLN
13A KS TOPEKA	DTVPLN	DTVP0438	PLN

After Analysis

Results for: 13A OK OKLAHOMA CITY BMPEDT 20080620ABQ CP
HAAT 465.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1524696	44707.3
not affected by terrain losses	1517500	43590.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	457	129.0
lost to ATV IX only	457	129.0
lost to all IX	457	129.0

Potential Interfering Stations Included in above Scenario 2

12A TX SHERMAN	BMPCDT	20080609ACT	CP
13A KS GARDEN CITY	BMPCDT	20080609ACN	CP
13A KS PITTSBURG	DTVPLN	DTVP0437	PLN
13A KS TOPEKA	USERRECORD01		APP

Percent new IX = 0.0019%

Worst case new IX 0.0019% Scenario 2

#####

Analysis of Interference to Affected Station 12

Table 1 WIBW-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 14 of 15)

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
13	KETA-TV	OKLAHOMA CITY OK	DTVPLN	-DTVP0464

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KXII	SHERMAN TX	185.0	CP MOD	BMPCDT	-20080609ACT
12	KXII	SHERMAN TX	185.0	PLN	DTVPLN	-DTVP0408
13	KUPK-TV	GARDEN CITY KS	363.9	CP MOD	BMPCDT	-20080609ACN
13	KUPK-TV	GARDEN CITY KS	363.9	PLN	DTVPLN	-DTVP0436
13	KFJX	PITTSBURG KS	307.4	CP MOD	BMPCDT	-20080612ABW
13	KFJX	PITTSBURG KS	307.4	PLN	DTVPLN	-DTVP0437
13	WIBW-TV	TOPEKA KS	399.6	PLN	DTVPLN	-DTVP0438
13	WIBW-DT	TOPEKA KS	399.6	APP	USERRECORD-01	

Total scenarios = 2

Result key: 129
Scenario 1 Affected station 12
Before Analysis

Results for: 13A OK OKLAHOMA CITY DTVPLN DTVP0464 PLN
HAAT 465.0 m, ATV ERP 26.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1460629	40023.9
not affected by terrain losses	1456182	38984.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	668	185.4
lost to ATV IX only	668	185.4
lost to all IX	668	185.4

Potential Interfering Stations Included in above Scenario 1

13A KS GARDEN CITY	BMPCDT	20080609ACN	CP
13A KS PITTSBURG	BMPCDT	20080612ABW	CP
13A KS TOPEKA	DTVPLN	DTVP0438	PLN

After Analysis

Results for: 13A OK OKLAHOMA CITY DTVPLN DTVP0464 PLN
HAAT 465.0 m, ATV ERP 26.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1460629	40023.9
not affected by terrain losses	1456182	38984.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	668	185.4
lost to ATV IX only	668	185.4
lost to all IX	668	185.4

Potential Interfering Stations Included in above Scenario 1

13A KS GARDEN CITY	BMPCDT	20080609ACN	CP
13A KS PITTSBURG	BMPCDT	20080612ABW	CP
13A KS TOPEKA	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

Table 1 WIBW-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 15 of 15)

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	WIBW-DT	TOPEKA KS	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KWCH-TV	HUTCHINSON KS	182.4	CP	BPCDT -20080313ACP
12	KWCH-TV	HUTCHINSON KS	182.3	PLN	DTVPLN -DTVP0375
12	KSQA	TOPEKA KS	25.5	PLN	DTVPLN -DTVP0376
13	WHO-DT	DES MOINES IA	373.5	CP MOD	BMPCDT -20080620AIM
13	WHO-TV	DES MOINES IA	375.3	PLN	DTVPLN -DTVP0431
13	KFJX	PITTSBURG KS	230.5	CP MOD	BMPCDT -20080612ABW
13	KFJX	PITTSBURG KS	230.5	PLN	DTVPLN -DTVP0437
13	KHGI-TV	KEARNEY NE	302.6	CP MOD	BMPCDT -20090122ABI
13	KHGI-TV	KEARNEY NE	302.6	PLN	DTVPLN -DTVP0456
13	KHGI-DR	KEARNEY NE	302.6	APP	BPRM -20080715AFI
13	KETA-TV	OKLAHOMA CITY OK	405.0	CP MOD	BMPCDT -20080620ABQ
13	KETA-TV	OKLAHOMA CITY OK	399.6	PLN	DTVPLN -DTVP0464

Total scenarios = 24

Result key: 154

Scenario 24 Affected station 13

Before Analysis

Results for: 13A KS TOPEKA USERRECORD01 APP

HAAT 413.0 m, ATV ERP 27.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	807650	37509.7
not affected by terrain losses	762881	36187.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5929	375.5
lost to ATV IX only	5929	375.5
lost to all IX	5929	375.5

Potential Interfering Stations Included in above Scenario 24

13A IA DES MOINES	DTVPLN	DTVP0431	PLN
13A KS PITTSBURG	DTVPLN	DTVP0437	PLN
13A NE KEARNEY	DTVPLN	DTVP0456	PLN

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

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.	
<p>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.</p> <p>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.</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	
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 13 Analog TV, if any
2.	Zone: <input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 39 Minutes 00 Seconds 22 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 96 Minutes 02 Seconds 57 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1032648 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 396.2 meters
6.	Overall Tower Height Above Ground Level: 380.7 meters
7.	Height of Radiation Center Above Ground Level: 364.0 meters
8.	Height of Radiation Center Above Average Terrain : 413.0 meters
9.	Maximum Effective Radiated Power (average power): 27 kW

10.	Antenna Specifications:	
	a. Manufacturer RCA Model TW-18A13-P	
	b. Electrical Beam Tilt: 1 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 43]	
	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 44]	
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 [Exhibit 45]
	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 46]
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 47]
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 6/26/2009	
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	