

ENGINEERING EXHIBIT

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

Gray Television Licensee, Inc.
WEAU-DT Eau Claire, WI
Facility ID 7893
Ch. 13 26 kW 611 m

Gray Television Licensee, Inc. (“Gray”) is the licensee of television station WEAU-TV, analog Channel 13 and digital Channel 39, Eau Claire, WI. A Construction Permit (“CP”, BPCDT-20080414ABC) authorizes construction of the WEAU-DT post-transition digital facility on Channel 13, as established in Appendix B of the Seventh Report and Order in MB Docket 87-278. *Gray* herein seeks to modify the CP to expand the WEAU-DT post-transition Channel 13 digital facility. 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 current CP authorizes operation with an effective radiated power (“ERP”) of 22.9 kW at 611 meters antenna height above average terrain (“HAAT”), with a nondirectional antenna. An increase in ERP to 26 kW is proposed herein. No other changes are proposed

The proposed digital Channel 13 operation will employ the existing non-directional antenna system licensed for WEAU-TV’s analog Channel 13. The antenna is a horizontally polarized RCA model TW-15A13-P. The antenna HAAT is changed to 611 meters (from 607 meters as currently licensed), as the ground elevation has been updated with a geographic coordinate correction of one second Latitude and one second Longitude.

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.

The Channel 13 antenna is top-mounted on the existing WEAU-TV antenna supporting structure, having FCC Antenna Structure Registration (“ASR”) number 1033664. 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 Eau Claire, WEAU-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 WEAU-DT facility’s predicted service population provides a 103.1 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	925,833	945,117
Not affected by terrain losses	875,916	899,120
Lost to all interference	17,858	14,652
Net DTV Service	858,058	884,468
Match of Appendix B	---	103.08%

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 464 km distant at Allegan, MI. 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 within the

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.

Canadian coordination zone (377 km to the Canada border), thus further international coordination may be necessary beyond that to establish Appendix B parameters.

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 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 $2.5 \mu\text{W}/\text{cm}^2$, which is 1.2 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 13, 2008

Chesapeake RF Consultants, LLC
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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 13, 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.

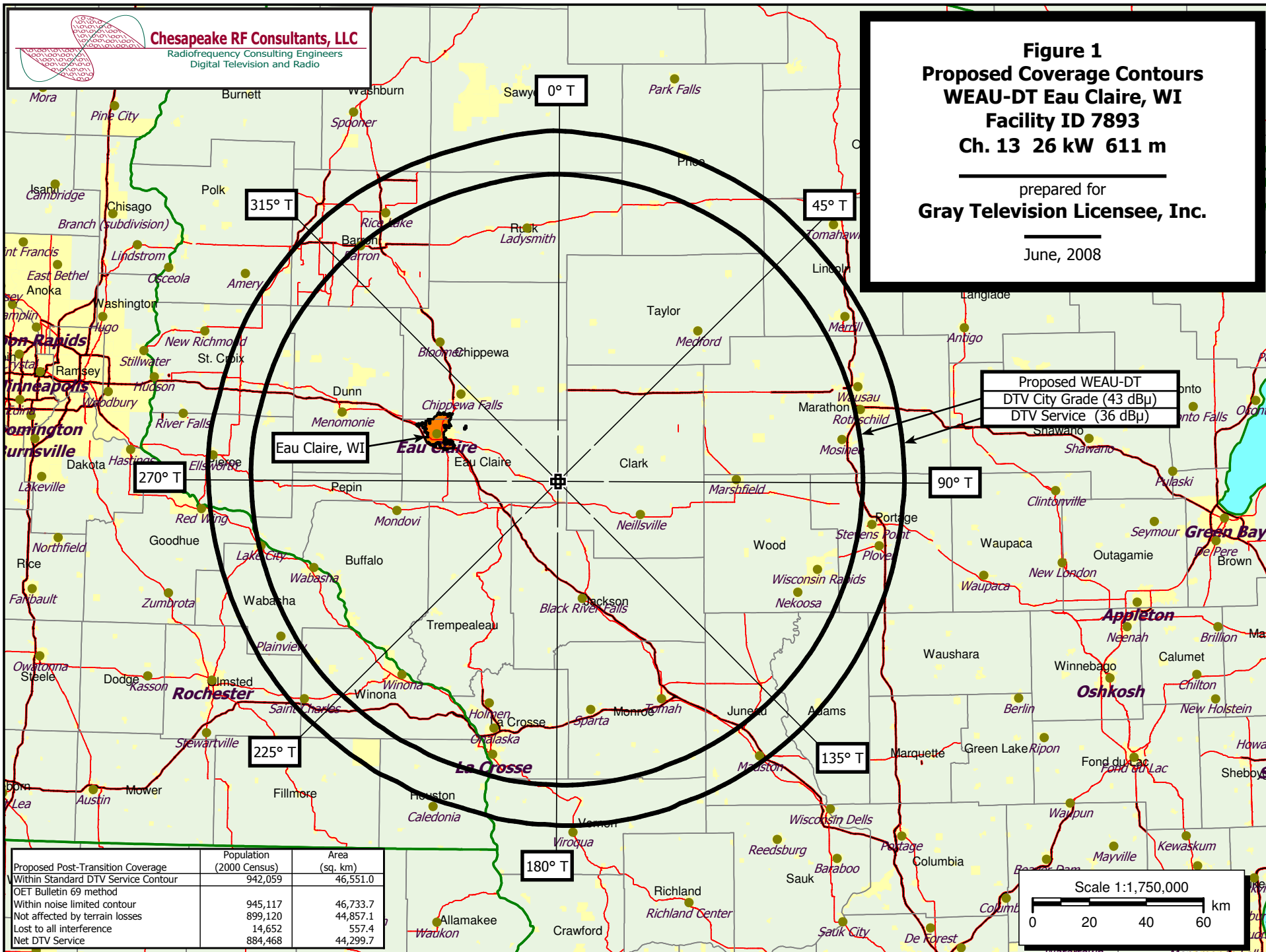


Table 1 WEAU-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 1 of 13)

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

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Percent allowed new interference: 0.499
Percent allowed new interference to Class A: 0.499
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: 10:15:56

Record Selected for Analysis

WEAU-DT USERRECORD-01 EAU CLAIRE WI US
Channel 13 ERP 26. kW HAAT 611. m RCAMSL 00928 m
Latitude 044-39-50 Longitude 0090-57-40
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	26.000	626.5	122.7
45.0	26.000	615.0	122.1
90.0	26.000	603.4	121.5
135.0	26.000	605.5	121.6
180.0	26.000	591.2	120.7
225.0	26.000	590.6	120.7
270.0	26.000	620.7	122.4
315.0	26.000	636.1	123.2

Evaluation toward Class A Stations

Contour overlap to Class A station
WUMN-CA 13 MINNEAPOLIS MN BLTVA 20050316ABR

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Table 1 WEAU-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 2 of 13)

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
Distance to border = 377.0km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
13	WEAU-DT	EAU CLAIRE WI	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WBIJ	CRANDON WI	191.8	PLN	DTVPLN	-DTVP0412
13	WHO-TV	DES MOINES IA	383.2	CP	BPCDT	-20080313AAD
13	WHO-TV	DES MOINES IA	381.3	PLN	DTVPLN	-DTVP0431
13	K13MN	WASHINGTON IA	376.8	LIC	BLTTV	-19791011ID
13	WREX-TV	ROCKFORD IL	297.4	PLN	DTVPLN	-DTVP0433
13	WREX-TV	ROCKFORD IL	297.4	CP	BPCDT	-20080328AAM
13	WMMU	MARQUETTE MI	306.2	CP MOD	BMPEDT	-20080312ACG
13	WMMU	MARQUETTE MI	305.9	PLN	DTVPLN	-DTVP0446
13	WIRT	HIBBING MN	338.9	PLN	DTVPLN	-DTVP0447
13	WIRT	HIBBING MN	338.9	CP	BPCDT	-20080421ABN
13	WUMN-CA	MINNEAPOLIS MN	185.3	LIC	BLTVA	-20050316ABR

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WBIJ	CRANDON WI	DTVPLN	-DTVP0412

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WLUK-TV	GREEN BAY WI	147.1	CP	BPCDT	-20080313AAM
11	WLUK-TV	GREEN BAY WI	147.2	PLN	DTVPLN	-DTVP0356
12	WBBM-TV	CHICAGO IL	422.6	CP	BPCDT	-20080328ADQ
12	WBBM-TV	CHICAGO IL	422.6	PLN	DTVPLN	-DTVP0375
13	WMMU	MARQUETTE MI	117.6	CP MOD	BMPEDT	-20080312ACG
13	WMMU	MARQUETTE MI	117.3	PLN	DTVPLN	-DTVP0446
13	WEAU-TV	EAU CLAIRE WI	191.8	PLN	DTVPLN	-DTVP0489
13	WEAU-DT	EAU CLAIRE WI	191.8	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

Analysis of Interference to Affected Station 2

Table 1 WEAU-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 3 of 13)

Analysis of current record
Channel Call City/State Application Ref. No.
13 WHO-TV DES MOINES IA BPCDT -20080313AAD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KIIN	IOWA CITY IA	188.7	PLN	DTVPLN -DTVP0373
12	KIIN	IOWA CITY IA	188.7	CP	BPEDT -20080314ABQ
13	WREX-TV	ROCKFORD IL	365.1	PLN	DTVPLN -DTVP0433
13	WREX-TV	ROCKFORD IL	365.1	CP	BPCDT -20080328AAM
13	WCFN	SPRINGFIELD IL	411.4	PLN	DTVPLN -DTVP0434
13	WIBW-TV	TOPEKA KS	373.5	CP	BPCDT -20080414AAI
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 -DTVP0474
13	WEAU-TV	EAU CLAIRE WI	383.2	PLN	DTVPLN -DTVP0489
13	WEAU-DT	EAU CLAIRE WI	383.2	APP	USERRECORD-01

Total scenarios = 8

Result key: 1
Scenario 1 Affected station 2
Before Analysis

Results for: 13A IA DES MOINES BPCDT 20080313AAD CP
HAAT 600.0 m, ATV ERP 29.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1016205	47184.4
not affected by terrain losses	1006182	46199.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1750	353.6
lost to ATV IX only	1750	353.6
lost to all IX	1750	353.6

Potential Interfering Stations Included in above Scenario 1

13A IL ROCKFORD	DTVPLN	DTVP0433	PLN
13A IL SPRINGFIELD	DTVPLN	DTVP0434	PLN
13A KS TOPEKA	BPCDT	20080414AAI	CP
13A SD SIOUX FALLS	BPCDT	20080408AEO	CP
13A WI EAU CLAIRE	DTVPLN	DTVP0489	PLN

After Analysis

Results for: 13A IA DES MOINES BPCDT 20080313AAD CP
HAAT 600.0 m, ATV ERP 29.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1016205	47184.4
not affected by terrain losses	1006182	46199.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1940	377.7
lost to ATV IX only	1940	377.7
lost to all IX	1940	377.7

Potential Interfering Stations Included in above Scenario 1

13A IL ROCKFORD	DTVPLN	DTVP0433	PLN
13A IL SPRINGFIELD	DTVPLN	DTVP0434	PLN
13A KS TOPEKA	BPCDT	20080414AAI	CP

Table 1 WEAU-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 4 of 13)

13A SD SIOUX FALLS BPCDT 20080408AEO CP
13A WI EAU CLAIRE USERRECORD01 APP

Percent new IX = 0.0189%

Worst case new IX 0.0189% Scenario 1

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Analysis of Interference to Affected Station 3

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	PLN	DTVPLN -DTVP0373
12	KIIN	IOWA CITY IA	188.9	CP	BPEDT -20080314ABQ
13	WREX-TV	ROCKFORD IL	364.7	PLN	DTVPLN -DTVP0433
13	WREX-TV	ROCKFORD IL	364.7	CP	BPCDT -20080328AAM
13	WCFN	SPRINGFIELD IL	412.7	PLN	DTVPLN -DTVP0434
13	WIBW-TV	TOPEKA KS	375.3	CP	BPCDT -20080414AAI
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 -DTVP0474
13	WEAU-TV	EAU CLAIRE WI	381.3	PLN	DTVPLN -DTVP0489
13	WEAU-DT	EAU CLAIRE WI	381.3	APP	USERRECORD-01

Total scenarios = 8

Result key: 11
Scenario 3 Affected station 3
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	23871	510.2
lost to ATV IX only	23871	510.2
lost to all IX	23871	510.2

Potential Interfering Stations Included in above Scenario 3

13A IL ROCKFORD	DTVPLN	DTVP0433	PLN
13A KS TOPEKA	DTVPLN	DTVP0438	PLN
13A SD SIOUX FALLS	BPCDT	20080408AEO	CP
13A WI EAU CLAIRE	DTVPLN	DTVP0489	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

Table 1 WEAU-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 5 of 13)

lost to NTSC IX	0	0.0
lost to additional IX by ATV	24016	522.2
lost to ATV IX only	24016	522.2
lost to all IX	24016	522.2

Potential Interfering Stations Included in above Scenario 3

13A IL ROCKFORD	DTVPLN	DTVP0433	PLN
13A KS TOPEKA	DTVPLN	DTVP0438	PLN
13A SD SIOUX FALLS	BPCDT	20080408AEO	CP
13A WI EAU CLAIRE	USERRECORD01	APP	

Percent new IX = 0.0140%

Worst case new IX 0.0140% Scenario 3

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	K13MN	WASHINGTON IA	BLTTV -19791011ID

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KIIN	IOWA CITY IA	53.5	LIC	BMLET -19900918KE
12	KIIN	IOWA CITY IA	53.5	PLN	DTVPLN -DTVP0373
12	KIIN	IOWA CITY IA	53.6	CP	BPEDT -20080314ABQ
13	WHO-TV	DES MOINES IA	169.0	CP	BPCDT -20080313AAD
13	WHO-TV	DES MOINES IA	169.8	PLN	DTVPLN -DTVP0431
13	WHO-TV	DES MOINES IA	169.0	LIC	BLCT -2633
13	WPXS	MT. VERNON IL	388.0	LIC	BMLCT -19990119KG
13	WREX-TV	ROCKFORD IL	230.5	LIC	BLCT -1372
13	WREX-TV	ROCKFORD IL	230.5	PLN	DTVPLN -DTVP0433
13	WREX-TV	ROCKFORD IL	230.5	CP	BPCDT -20080328AAM
13	WCFN	SPRINGFIELD IL	250.1	PLN	DTVPLN -DTVP0434
13	KRCG	JEFFERSON CITY MO	293.8	LIC	BMLCT -20041028AGR
13	WEAU-TV	EAU CLAIRE WI	376.8	LIC	BMLCT -20040930BZR
13	WEAU-TV	EAU CLAIRE WI	376.8	PLN	DTVPLN -DTVP0489
13	WEAU-TV	EAU CLAIRE WI	376.8	CP	BPCDT -20080414ABC
13	WEAU-DT	EAU CLAIRE WI	376.8	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	WREX-TV	ROCKFORD IL	DTVPLN -DTVP0433

Stations Potentially Affecting This Station

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

(worst-case scenarios shown page 6 of 13)

12	KIIN	IOWA CITY IA	185.0	PLN	DTVPLN	-DTVP0373
12	KIIN	IOWA CITY IA	185.0	CP	BPEDT	-20080314ABQ
12	WBMM-TV	CHICAGO IL	140.3	CP	BPCDT	-20080328ADQ
12	WBMM-TV	CHICAGO IL	140.3	PLN	DTVPLN	-DTVP0375
13	WHO-TV	DES MOINES IA	365.1	CP	BPCDT	-20080313AAD
13	WHO-TV	DES MOINES IA	364.7	PLN	DTVPLN	-DTVP0431
13	WCFN	SPRINGFIELD IL	279.5	PLN	DTVPLN	-DTVP0434
13	WTHR	INDIANAPOLIS IN	367.2	CP	BPCDT	-20080508ABC
13	WTHR	INDIANAPOLIS IN	367.2	PLN	DTVPLN	-DTVP0435
13	WZZM-TV	GRAND RAPIDS MI	293.7	PLN	DTVPLN	-DTVP0445
13	WZZM-TV	GRAND RAPIDS MI	293.7	CP	BPCDT	-20080325AFK
13	WEAU-TV	EAU CLAIRE WI	297.5	PLN	DTVPLN	-DTVP0489
13	WEAU-DT	EAU CLAIRE WI	297.4	APP	USERRECORD-01	

Total scenarios = 16

Result key: 17

Scenario 1 Affected station 5

Before Analysis

Results for: 13A IL ROCKFORD		DTVPLN	DTVP0433	PLN
HAAT	216.0 m, ATV ERP	12.4 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	1838319	24908.2		
not affected by terrain losses	1628797	23069.4		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	147040	850.8		
lost to ATV IX only	147040	850.8		
lost to all IX	147040	850.8		

Potential Interfering Stations Included in above Scenario 1

12A IL CHICAGO	BPCDT	20080328ADQ	CP
13A IA DES MOINES	BPCDT	20080313AAD	CP
13A IL SPRINGFIELD	DTVPLN	DTVP0434	PLN
13A IN INDIANAPOLIS	BPCDT	20080508ABC	CP
13A MI GRAND RAPIDS	DTVPLN	DTVP0445	PLN
13A WI EAU CLAIRE	DTVPLN	DTVP0489	PLN

After Analysis

Results for: 13A IL ROCKFORD		DTVPLN	DTVP0433	PLN
HAAT	216.0 m, ATV ERP	12.4 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	1838319	24908.2		
not affected by terrain losses	1628797	23069.4		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	151837	899.2		
lost to ATV IX only	151837	899.2		
lost to all IX	151837	899.2		

Potential Interfering Stations Included in above Scenario 1

12A IL CHICAGO	BPCDT	20080328ADQ	CP
13A IA DES MOINES	BPCDT	20080313AAD	CP
13A IL SPRINGFIELD	DTVPLN	DTVP0434	PLN
13A IN INDIANAPOLIS	BPCDT	20080508ABC	CP
13A MI GRAND RAPIDS	DTVPLN	DTVP0445	PLN
13A WI EAU CLAIRE	USERRECORD01	APP	

Percent new IX = 0.3237%

Table 1 WEAU-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 7 of 13)

Worst case new IX 0.3237% Scenario 1

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WREX-TV	ROCKFORD IL	BPCDT	-20080328AAM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KIIN	IOWA CITY IA	185.0	PLN	DTVPLN	-DTVP0373
12	KIIN	IOWA CITY IA	185.0	CP	BPEDT	-20080314ABQ
12	WBBM-TV	CHICAGO IL	140.3	CP	BPCDT	-20080328ADQ
12	WBBM-TV	CHICAGO IL	140.3	PLN	DTVPLN	-DTVP0375
13	WHO-TV	DES MOINES IA	365.1	CP	BPCDT	-20080313AAD
13	WHO-TV	DES MOINES IA	364.7	PLN	DTVPLN	-DTVP0431
13	WCFN	SPRINGFIELD IL	279.5	PLN	DTVPLN	-DTVP0434
13	WTHR	INDIANAPOLIS IN	367.2	CP	BPCDT	-20080508ABC
13	WTHR	INDIANAPOLIS IN	367.2	PLN	DTVPLN	-DTVP0435
13	WZZM-TV	GRAND RAPIDS MI	293.7	PLN	DTVPLN	-DTVP0445
13	WZZM-TV	GRAND RAPIDS MI	293.7	CP	BPCDT	-20080325AFK
13	WEAU-TV	EAU CLAIRE WI	297.5	PLN	DTVPLN	-DTVP0489
13	WEAU-DT	EAU CLAIRE WI	297.4	APP	USERRECORD-01	

Total scenarios = 16

Result key: 33
Scenario 1 Affected station 6
Before Analysis

Results for: 13A IL ROCKFORD BPCDT 20080328AAM CP

HAAT 216.0 m, ATV ERP 12.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1837607	24944.9
not affected by terrain losses	1624277	23085.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	158941	850.9
lost to ATV IX only	158941	850.9
lost to all IX	158941	850.9

Potential Interfering Stations Included in above Scenario 1

12A IL CHICAGO	BPCDT	20080328ADQ	CP
13A IA DES MOINES	BPCDT	20080313AAD	CP
13A IL SPRINGFIELD	DTVPLN	DTVP0434	PLN
13A IN INDIANAPOLIS	BPCDT	20080508ABC	CP
13A MI GRAND RAPIDS	DTVPLN	DTVP0445	PLN
13A WI EAU CLAIRE	DTVPLN	DTVP0489	PLN

After Analysis

Results for: 13A IL ROCKFORD BPCDT 20080328AAM CP

HAAT 216.0 m, ATV ERP 12.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1837607	24944.9

Table 1 WEAU-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 8 of 13)

not affected by terrain losses	1624277	23085.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	160872	895.2
lost to ATV IX only	160872	895.2
lost to all IX	160872	895.2

Potential Interfering Stations Included in above Scenario 1

12A IL CHICAGO	BPCDT	20080328ADQ	CP
13A IA DES MOINES	BPCDT	20080313AAD	CP
13A IL SPRINGFIELD	DTVPLN	DTVP0434	PLN
13A IN INDIANAPOLIS	BPCDT	20080508ABC	CP
13A MI GRAND RAPIDS	DTVPLN	DTVP0445	PLN
13A WI EAU CLAIRE	USERRECORD01		APP

Percent new IX = 0.1318%

Worst case new IX 0.1318% Scenario 1

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WNUM	MARQUETTE MI	BMPEDT	-20080312ACG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WBIJ	CRANDON WI	117.6	PLN	DTVPLN	-DTVP0412
13	WZZM-TV	GRAND RAPIDS MI	371.3	PLN	DTVPLN	-DTVP0445
13	WZZM-TV	GRAND RAPIDS MI	371.2	CP	BPCDT	-20080325AFK
13	WIRT	HIBBING MN	404.0	PLN	DTVPLN	-DTVP0447
13	WIRT	HIBBING MN	404.0	CP	BPCDT	-20080421ABN
13	WEAU-TV	EAU CLAIRE WI	306.2	PLN	DTVPLN	-DTVP0489
13	WEAU-DT	EAU CLAIRE WI	306.2	APP	USERRECORD-01	

Total scenarios = 2

Result key: 49
Scenario 1 Affected station 7
Before Analysis

Results for: 13A MI MARQUETTE BMPEDT 20080312ACG CP

HAAT 323.0 m, ATV ERP 15.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	184982	29793.0
not affected by terrain losses	183081	29077.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	506	152.8
lost to ATV IX only	506	152.8
lost to all IX	506	152.8

Potential Interfering Stations Included in above Scenario 1

13A MI GRAND RAPIDS	DTVPLN	DTVP0445	PLN
13A WI EAU CLAIRE	DTVPLN	DTVP0489	PLN

Table 1 WEAU-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 9 of 13)

After Analysis

Results for: 13A MI MARQUETTE BMPEDT 20080312ACG CP
HAAT 323.0 m, ATV ERP 15.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	184982	29793.0
not affected by terrain losses	183081	29077.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	572	189.0
lost to ATV IX only	572	189.0
lost to all IX	572	189.0

Potential Interfering Stations Included in above Scenario 1

13A MI GRAND RAPIDS	DTVPLN	DTVP0445	PLN
13A WI EAU CLAIRE	USERRECORD01		APP

Percent new IX = 0.0361%

Worst case new IX 0.0361% Scenario 1

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WNMU	MARQUETTE MI	DTVPLN	-DTVP0446

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WBIJ	CRANDON WI	117.3	PLN	DTVPLN	-DTVP0412
13	WZZM-TV	GRAND RAPIDS MI	371.4	PLN	DTVPLN	-DTVP0445
13	WZZM-TV	GRAND RAPIDS MI	371.3	CP	BPCDT	-20080325AFK
13	WIRT	HIBBING MN	403.7	PLN	DTVPLN	-DTVP0447
13	WIRT	HIBBING MN	403.7	CP	BPCDT	-20080421ABN
13	WEAU-TV	EAU CLAIRE WI	305.9	PLN	DTVPLN	-DTVP0489
13	WEAU-DT	EAU CLAIRE WI	305.9	APP	USERRECORD-01	

Total scenarios = 2

Result key: 51
Scenario 1 Affected station 8
Before Analysis

Results for: 13A MI MARQUETTE DTVPLN DTVP0446 PLN
HAAT 332.0 m, ATV ERP 15.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	185335	30115.1
not affected by terrain losses	183853	29423.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	196	148.8
lost to ATV IX only	196	148.8
lost to all IX	196	148.8

Potential Interfering Stations Included in above Scenario 1

13A MI GRAND RAPIDS	DTVPLN	DTVP0445	PLN
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Table 1 WEAU-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 10 of 13)

13A WI EAU CLAIRE DTVPLN DTVP0489 PLN

After Analysis

Results for: 13A MI MARQUETTE DTVPLN DTVP0446 PLN
HAAT 332.0 m, ATV ERP 15.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	185335	30115.1
not affected by terrain losses	183853	29423.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	563	189.0
lost to ATV IX only	563	189.0
lost to all IX	563	189.0

Potential Interfering Stations Included in above Scenario 1

13A MI GRAND RAPIDS	DTVPLN	DTVP0445	PLN
13A WI EAU CLAIRE	USERRECORD01		APP

Percent new IX = 0.1998%

Worst case new IX 0.1998% Scenario 1

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WIRT	HIBBING MN	DTVPLN	-DTVP0447

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KCCW-TV	WALKER MN	123.8	CP	BPCDT	-20080527ABE
12	KCCW-TV	WALKER MN	124.0	PLN	DTVPLN	-DTVP0382
13	WNMU	MARQUETTE MI	404.0	CP MOD	BMPEDT	-20080312ACG
13	WNMU	MARQUETTE MI	403.7	PLN	DTVPLN	-DTVP0446
13	KFME	FARGO ND	322.7	PLN	DTVPLN	-DTVP0453
13	KFME	FARGO ND	322.8	CP	BPEDT	-20080229ACC
13	WEAU-TV	EAU CLAIRE WI	338.9	PLN	DTVPLN	-DTVP0489
13	WEAU-DT	EAU CLAIRE WI	338.9	APP	USERRECORD-01	

Total scenarios = 4

Result key: 53
Scenario 1 Affected station 9
Before Analysis

Results for: 13A MN HIBBING DTVPLN DTVP0447 PLN
HAAT 211.0 m, ATV ERP 3.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	117332	16313.0
not affected by terrain losses	116662	15934.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	209	96.7
lost to ATV IX only	209	96.7
lost to all IX	209	96.7

Table 1 WEAU-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 11 of 13)

Potential Interfering Stations Included in above Scenario 1

12A MN WALKER	BPCDT	20080527ABE	CP
13A ND FARGO	DTVPLN	DTVP0453	PLN
13A WI EAU CLAIRE	DTVPLN	DTVP0489	PLN

After Analysis

Results for: 13A MN HIBBING DTVPLN DTVP0447 PLN
HAAT 211.0 m, ATV ERP 3.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	117332	16313.0
not affected by terrain losses	116662	15934.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	209	96.7
lost to ATV IX only	209	96.7
lost to all IX	209	96.7

Potential Interfering Stations Included in above Scenario 1

12A MN WALKER	BPCDT	20080527ABE	CP
13A ND FARGO	DTVPLN	DTVP0453	PLN
13A WI EAU CLAIRE	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 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WIRT	HIBBING MN	BPCDT	-20080421ABN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KCCW-TV	WALKER MN	123.8	CP	BPCDT	-20080527ABE
12	KCCW-TV	WALKER MN	124.0	PLN	DTVPLN	-DTVP0382
13	WNMU	MARQUETTE MI	404.0	CP MOD	BMPEDT	-20080312ACG
13	WNMU	MARQUETTE MI	403.7	PLN	DTVPLN	-DTVP0446
13	KFME	FARGO ND	322.7	PLN	DTVPLN	-DTVP0453
13	KFME	FARGO ND	322.8	CP	BPEDT	-20080229ACC
13	WEAU-TV	EAU CLAIRE WI	338.9	PLN	DTVPLN	-DTVP0489
13	WEAU-DT	EAU CLAIRE WI	338.9	APP	USERRECORD-01	

Total scenarios = 4

Result key: 57
Scenario 1 Affected station 10
Before Analysis

Results for: 13A MN HIBBING BPCDT 20080421ABN CP
HAAT 204.0 m, ATV ERP 9.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	124580	18747.1
not affected by terrain losses	122573	18312.0

Table 1 WEAU-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 12 of 13)

lost to NTSC IX	0	0.0
lost to additional IX by ATV	857	197.4
lost to ATV IX only	857	197.4
lost to all IX	857	197.4

Potential Interfering Stations Included in above Scenario 1

12A MN WALKER	BPCDT	20080527ABE	CP
13A ND FARGO	DTVPLN	DTVP0453	PLN
13A WI EAU CLAIRE	DTVPLN	DTVP0489	PLN

After Analysis

Results for: 13A MN HIBBING BPCDT 20080421ABN CP
HAAT 204.0 m, ATV ERP 9.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	124580	18747.1
not affected by terrain losses	122573	18312.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	857	205.5
lost to ATV IX only	857	205.5
lost to all IX	857	205.5

Potential Interfering Stations Included in above Scenario 1

12A MN WALKER	BPCDT	20080527ABE	CP
13A ND FARGO	DTVPLN	DTVP0453	PLN
13A WI EAU CLAIRE	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 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WUMN-CA	MINNEAPOLIS MN	BLTVA	-20050316ABR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	WHO-TV	DES MOINES IA	352.8	CP	BPCDT	-20080313AAD
13	WHO-TV	DES MOINES IA	350.6	PLN	DTVPLN	-DTVP0431
13	WHO-TV	DES MOINES IA	352.8	LIC	BLCT	-2633
13	WIRT	HIBBING MN	268.7	LIC	BMLCT	-20040924ABK
13	WIRT	HIBBING MN	268.7	PLN	DTVPLN	-DTVP0447
13	WIRT	HIBBING MN	268.7	CP	BPCDT	-20080421ABN
13	WCMN-LP	ST. CLOUD-SARTELL MN	92.2	LIC	BLTVL	-20021031ABS
13	KFME	FARGO ND	378.3	LIC	BLET	-19810616KH
13	KFME	FARGO ND	378.3	PLN	DTVPLN	-DTVP0453
13	KFME	FARGO ND	378.3	CP	BPEDT	-20080229ACC
13	KSFY-TV	SIOUX FALLS SD	306.1	CP	BPCDT	-20080408AEO
13	KSFY-TV	SIOUX FALLS SD	306.1	PLN	DTVPLN	-DTVP0474
13	KSFY-TV	SIOUX FALLS SD	306.1	LIC	BLCT	-1723
13	WEAU-TV	EAU CLAIRE WI	185.3	LIC	BMLCT	-20040930BZR
13	WEAU-TV	EAU CLAIRE WI	185.3	PLN	DTVPLN	-DTVP0489
13	WEAU-TV	EAU CLAIRE WI	185.3	CP	BPCDT	-20080414ABC

Table 1 WEAU-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 13 of 13)

13	WEAU-DT	EAU CLAIRE WI	185.3	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.		
13	WEAU-DT	EAU CLAIRE WI	USERRECORD-01		
Stations Potentially Affecting This Station					
Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WBIJ	CRANDON WI	191.8	PLN	DTVPLN -DTVP0412
13	WHO-TV	DES MOINES IA	383.2	CP	BPCDT -20080313AAD
13	WHO-TV	DES MOINES IA	381.3	PLN	DTVPLN -DTVP0431
13	WREX-TV	ROCKFORD IL	297.4	PLN	DTVPLN -DTVP0433
13	WREX-TV	ROCKFORD IL	297.4	CP	BPCDT -20080328AAM
13	WNNMU	MARQUETTE MI	306.2	CP MOD	BMPEDT -20080312ACG
13	WNNMU	MARQUETTE MI	305.9	PLN	DTVPLN -DTVP0446
13	WIRT	HIBBING MN	338.9	PLN	DTVPLN -DTVP0447
13	WIRT	HIBBING MN	338.9	CP	BPCDT -20080421ABN
Total scenarios = 16					
Result key: 71					
Scenario	11	Affected station	12		
Before Analysis					
Results for: 13A WI EAU CLAIRE			USERRECORD01		APP
HAAT 611.0 m, ATV ERP 26.0 kW					
			POPULATION	AREA (sq km)	
within Noise Limited Contour			945117	46733.7	
not affected by terrain losses			899120	44857.1	
lost to NTSC IX			0	0.0	
lost to additional IX by ATV			14652	557.4	
lost to ATV IX only			14652	557.4	
lost to all IX			14652	557.4	
Potential Interfering Stations Included in above Scenario					11
13A	IA	DES MOINES	DTVPLN	DTVP0431	PLN
13A	IL	ROCKFORD	DTVPLN	DTVP0433	PLN
13A	MI	MARQUETTE	DTVPLN	DTVP0446	PLN
13A	MN	HIBBING	DTVPLN	DTVP0447	PLN
#####					
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.**

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 13 Analog TV, if any 13
2.	Zone: <input type="radio"/> I <input checked="" type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 44 Minutes 39 Seconds 50 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 90 Minutes 57 Seconds 40 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1033664 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 334.3 meters
6.	Overall Tower Height Above Ground Level: 608.9 meters
7.	Height of Radiation Center Above Ground Level: 593.5 meters
8.	Height of Radiation Center Above Average Terrain : 611 meters
9.	Maximum Effective Radiated Power (average power): 26 kW
10.	Antenna Specifications:

a. Manufacturer RCA Model TW-15A13-P	
b. Electrical Beam Tilt: 0.7 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 [Exhibit 44]
If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.	
12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (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 6/13/2008	
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).