

## ENGINEERING EXHIBIT

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

**Gray Television Licensee, Inc.**  
WTAP-DT Parkersburg, WV  
Facility ID 4685  
Ch. 49 1000 kW 196 m

*Gray Television Licensee, Inc. (“Gray”)* is the licensee of television station WTAP-TV, analog Channel 15 and digital Channel 49, Parkersburg, WV. The WTAP-DT Channel 49 facility is licensed with an effective radiated power (“ERP”) of 47.4 kW at 193 meters antenna height above average terrain (“HAAT”), with a side-mounted nondirectional antenna (BLCDT-20040423ABG). WTAP-DT will remain on its current digital Channel 49 for the post-transition period, as established in Appendix B of the Seventh Report and Order in MB Docket 87-278. The Appendix B parameters are the same as the licensed operation (47.4 kW and 193 meters). *Gray* herein seeks a Construction Permit to expand the WTAP-DT post-transition Channel 49 digital facility to 1000 kW ERP and 196 meters antenna HAAT. The instant application is intended to be filed by June 20, 2008 in response to the FCC’s lifting of the August 3, 2004 “freeze” concerning expansion in service area.<sup>1</sup>

The proposed WTAP-DT Channel 49 antenna system, a Dielectric nondirectional model TFU-28GTH-O4, will be top-mounted in place of the existing analog Channel 15 and digital Channel 49 antennas on the tower structure. The antenna will be installed on the existing WTAP-TV antenna supporting structure (FCC Antenna Structure Registration number 1239800). No change to the overall structure height will result from this proposal.

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

---

<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.

thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 48 dBμ contour.

The proposed WTAP-DT facility's predicted service population provides a 157.3 percent match of the Appendix B facility, as detailed in the following table.

<b>Post-Transition Population Summary</b>		
Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	369,274	582,964
Not affected by terrain losses	356,070	557,246
Lost to all interference	5,257	5,486
Net DTV Service	<b>350,813</b>	<b>551,760</b>
Match of Appendix B	---	<b>157.28%</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. 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 410 km distant at Laurel, MD. This exceeds the threshold minimum distances specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with “quiet” zones specified in §73.1030(a) and (b). There are no AM stations within 3.2 kilometers of the site, based on information contained within the Commission’s database. The site location is beyond the border areas requiring international coordination.

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

The proposed transmitting antenna’s installation will replace two existing antennas and involve no change in overall tower height. Thus, it is believed that this application may be

---

<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 standard cell size of 2 km was employed. Comparisons of various results of this computer program (run on a Sun Sparc processor) to the Commission’s implementation of OET-69 show excellent correlation.

categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and considering 10 percent antenna relative field in downward elevations (pattern data shows less than 10 percent relative field at angles 10 to 90 degrees below the antenna), the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is  $19 \mu\text{W}/\text{cm}^2$ , which is 4.2 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

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

### **Certification**

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

Joseph M. Davis, P.E.  
June 15, 2008

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

### List of Attachments

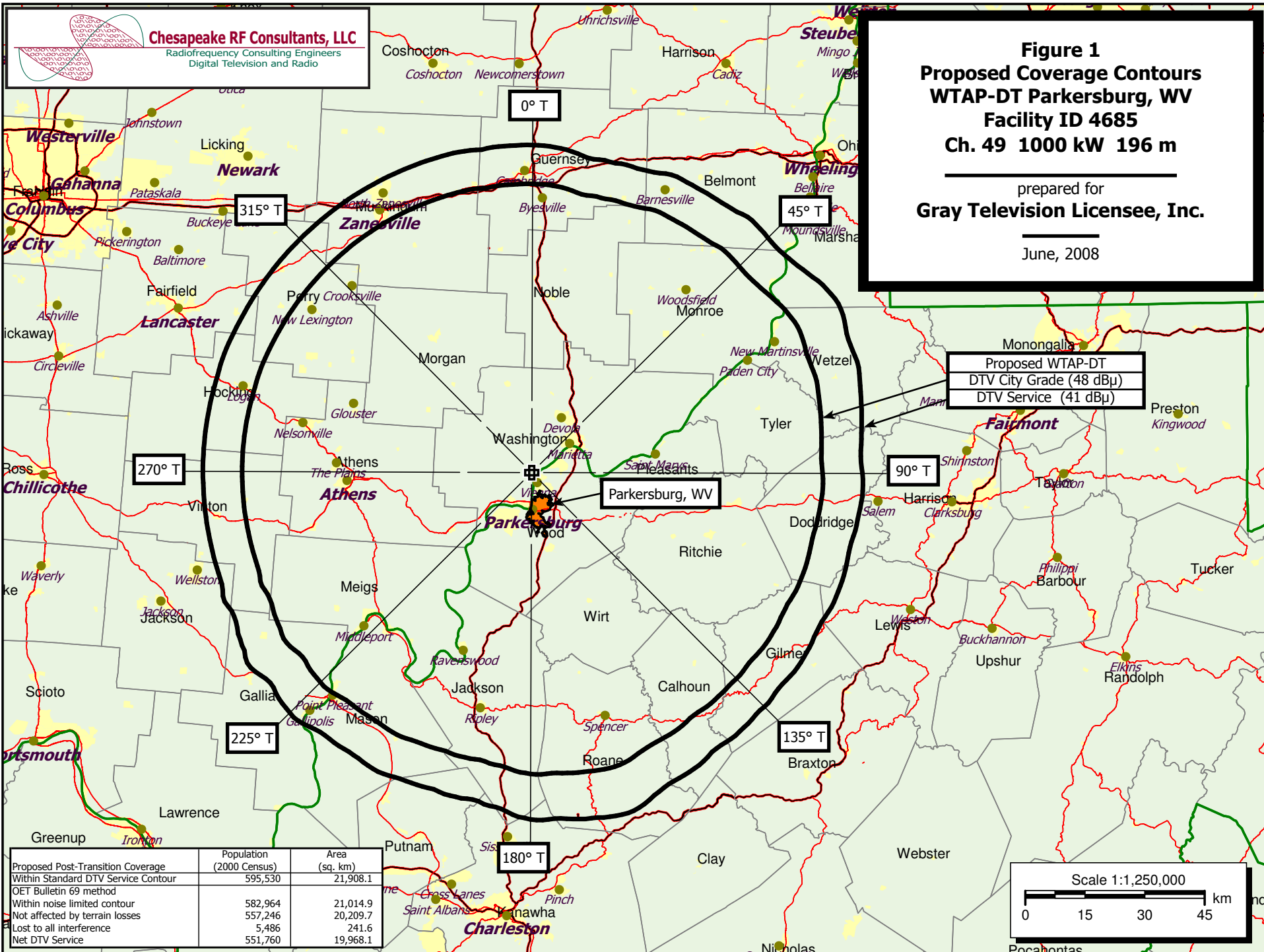
Figure 1	Proposed Coverage Contours
Table 1	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload

*This material was entered June 15, 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**  
**WTAP-DT Parkersburg, WV**  
**Facility ID 4685**  
**Ch. 49 1000 kW 196 m**

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

June, 2008



**Table 1 WTAP-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 1 of 16)

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

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-15-2008 Time: 15:03:34

Record Selected for Analysis

WTAP-DT USERRECORD-01 PARKERSBURG WV US  
Channel 49 ERP 1000. kW HAAT 197. m RCAMSL 00430 m  
Latitude 039-21-00 Longitude 0081-33-56  
Status APP Zone 1 Border  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	1000.000	182.7	81.9
45.0	1000.000	196.6	83.2
90.0	1000.000	189.9	82.6
135.0	1000.000	189.2	82.5
180.0	1000.000	228.2	86.3
225.0	1000.000	214.8	84.9
270.0	1000.000	186.0	82.2
315.0	1000.000	186.1	82.2

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 within the Canadian coordination distance  
Distance to border = 268.5km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 2 of 16)

\*\*\*\*\*

## Start of Interference Analysis

Channel	Call	City/State	ARN
49	WTAP-DT	PARKERSBURG WV	USERRECORD01

## Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WPXI	PITTSBURGH PA	181.7	LIC	BLCDT	-20050609AAQ
48	WPXI	PITTSBURGH PA	181.7	PLN	DTVPLN	-DTVP1717
49	WDRB	LOUISVILLE KY	387.1	CP	BPCDT	-20051130ACJ
49	WDRB	LOUISVILLE KY	387.1	PLN	DTVPLN	-DTVP1740
49	WNWO-TV	TOLEDO OH	298.7	LIC	BLCDT	-20020403AAR
49	WNWO-TV	TOLEDO OH	298.7	PLN	DTVPLN	-DTVP1748
49	WLLS-LP	INDIANA PA	245.5	LIC	BLTTL	-19961230JA
49	WLFG	GRUNDY VA	283.7	CP	BPCDT	-19991029AGK
49	WLFG	GRUNDY VA	283.7	PLN	DTVPLN	-DTVP1754
49	WHSV-TV	HARRISONBURG VA	266.7	LIC	BLCDT	-20060413ACO
49	WHSV-TV	HARRISONBURG VA	266.7	PLN	DTVPLN	-DTVP1755
50	WEAO	AKRON OH	192.7	LIC	BLEDT	-20040928AQT
50	WEAO	AKRON OH	192.7	PLN	DTVPLN	-DTVP1772
50	WPCB-TV	GREENSBURG PA	191.3	LIC	BLCDT	-20030409ABC
50	WPCB-TV	GREENSBURG PA	191.3	PLN	DTVPLN	-DTVP1776
50	WOAY-TV	OAK HILL WV	158.9	LIC	BLCDT	-20070426AAK
50	WOAY-TV	OAK HILL WV	158.9	PLN	DTVPLN	-DTVP1784

\*\*\*\*\*

## Analysis of Interference to Affected Station 1

Analysis of current record  
Channel 48 Call WPXI City/State PITTSBURGH PA Application Ref. No. BLCDT -20050609AAQ

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
47	WOAC	CANTON OH	133.1	LIC	BLCDT	-20060222AAK
47	WOAC	CANTON OH	133.1	PLN	DTVPLN	-DTVP1685
48	WRC-TV	WASHINGTON DC	301.9	LIC	BLCDT	-20000216AAT
48	WRC-TV	WASHINGTON DC	301.9	PLN	DTVPLN	-DTVP1701
48	WYDC	CORNING NY	311.4	PLN	DTVPLN	-DTVP1715
49	WTAP-TV	PARKERSBURG WV	181.8	PLN	DTVPLN	-DTVP1757
49	WTAP-DT	PARKERSBURG WV	181.7	APP	USERRECORD-01	

Proposal causes no interference

\*\*\*\*\*

## Analysis of Interference to Affected Station 2

Analysis of current record  
Channel 48 Call WPXI City/State PITTSBURGH PA Application Ref. No. DTVPLN -DTVP1717

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 3 of 16)

Stations Potentially Affecting This Station						
Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
47	WOAC	CANTON OH	133.1	LIC	BLCDDT	-20060222AAK
47	WOAC	CANTON OH	133.1	PLN	DTVPLN	-DTVPI685
48	WRC-TV	WASHINGTON DC	301.9	LIC	BLCDDT	-20000216AAT
48	WRC-TV	WASHINGTON DC	301.9	PLN	DTVPLN	-DTVPI701
48	WYDC	CORNING NY	311.4	PLN	DTVPLN	-DTVPI715
49	WTAP-TV	PARKERSBURG WV	181.8	PLN	DTVPLN	-DTVPI757
49	WTAP-DT	PARKERSBURG WV	181.7	APP	USERRECORD-01	

Proposal causes no interference

#####

#### Analysis of Interference to Affected Station 3

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
49	WDRB	LOUISVILLE KY	BPCDDT	-20051130ACJ

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WTTV	BLOOMINGTON IN	120.3	CP	BPCDDT	-20060707AFA
48	WTTV	BLOOMINGTON IN	120.3	PLN	DTVPLN	-DTVPI707
48	WTTV	BLOOMINGTON IN	120.3	LIC	BLCDDT	-20060630ACD
48	WKGB-TV	BOWLING GREEN KY	156.2	LIC	BLEDDT	-20020304ALH
48	WKGB-TV	BOWLING GREEN KY	156.2	PLN	DTVPLN	-DTVPI709
49	WAFF	HUNTSVILLE AL	409.1	LIC	BLCDDT	-20021023ABD
49	WAFF	HUNTSVILLE AL	409.1	PLN	DTVPLN	-DTVPI727
49	WDKA	PADUCAH KY	291.2	PLN	DTVPLN	-DTVPI741
49	WDKA	PADUCAH KY	291.2	CP	BPCDDT	-20080317AIT
49	WNWO-TV	TOLEDO OH	425.4	LIC	BLCDDT	-20020403AAR
49	WNWO-TV	TOLEDO OH	425.4	PLN	DTVPLN	-DTVPI748
49	WLFG	GRUNDY VA	372.5	CP	BPCDDT	-19991029AGK
49	WLFG	GRUNDY VA	372.5	PLN	DTVPLN	-DTVPI754
49	WTAP-TV	PARKERSBURG WV	387.0	PLN	DTVPLN	-DTVPI757
50	WDTN	DAYTON OH	205.1	LIC	BLCDDT	-20050629AAL
50	WDTN	DAYTON OH	205.1	PLN	DTVPLN	-DTVPI773
49	WTAP-DT	PARKERSBURG WV	387.1	APP	USERRECORD-01	

Total scenarios = 12

Result key: 1  
Scenario 1 Affected station 3  
Before Analysis

Results for: 49A KY LOUISVILLE						
HAAT	390.0 m, ATV ERP 1000.0 kW	BPCDDT	20051130ACJ	CP		
		POPULATION	AREA (sq km)			
within Noise Limited Contour		1787308	33324.7			
not affected by terrain losses		1771700	32360.1			
lost to NTSC IX		0	0.0			
lost to additional IX by ATV		12529	230.0			
lost to ATV IX only		12529	230.0			
lost to all IX		12529	230.0			

Potential Interfering Stations Included in above Scenario 1

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 4 of 16)

48A IN BLOOMINGTON	BPCDDT	20060707AFA	CP
49A KY PADUCAH	DTVPLN	DTVPI741	PLN
49A VA GRUNDY	BPCDDT	19991029AGK	CP

#### After Analysis

Results for: 49A KY LOUISVILLE			
HAAT	390.0 m, ATV ERP 1000.0 kW	BPCDDT	20051130ACJ CP
		POPULATION	AREA (sq km)
within Noise Limited Contour		1787308	33324.7
not affected by terrain losses		1771700	32360.1
lost to NTSC IX		0	0.0
lost to additional IX by ATV		12582	234.1
lost to ATV IX only		12582	234.1
lost to all IX		12582	234.1

Potential Interfering Stations Included in above Scenario 1

48A IN BLOOMINGTON	BPCDDT	20060707AFA	CP
49A KY PADUCAH	DTVPLN	DTVPI741	PLN
49A VA GRUNDY	BPCDDT	19991029AGK	CP
49A WV PARKERSBURG	USERRECORD01		APP

Percent new IX = 0.0030%

Worst case new IX 0.0030% Scenario 1

#####

#### Analysis of Interference to Affected Station 4

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
49	WDRB	LOUISVILLE KY	DTVPLN	-DTVPI740

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WTTV	BLOOMINGTON IN	120.3	CP	BPCDDT	-20060707AFA
48	WTTV	BLOOMINGTON IN	120.3	PLN	DTVPLN	-DTVPI707
48	WTTV	BLOOMINGTON IN	120.3	LIC	BLCDDT	-20060630ACD
48	WKGB-TV	BOWLING GREEN KY	156.2	LIC	BLEDDT	-20020304ALH
48	WKGB-TV	BOWLING GREEN KY	156.2	PLN	DTVPLN	-DTVPI709
49	WAFF	HUNTSVILLE AL	409.1	LIC	BLCDDT	-20021023ABD
49	WAFF	HUNTSVILLE AL	409.1	PLN	DTVPLN	-DTVPI727
49	WDKA	PADUCAH KY	291.2	PLN	DTVPLN	-DTVPI741
49	WDKA	PADUCAH KY	291.2	CP	BPCDDT	-20080317AIT
49	WNWO-TV	TOLEDO OH	425.4	LIC	BLCDDT	-20020403AAR
49	WNWO-TV	TOLEDO OH	425.4	PLN	DTVPLN	-DTVPI748
49	WLFG	GRUNDY VA	372.5	CP	BPCDDT	-19991029AGK
49	WLFG	GRUNDY VA	372.5	PLN	DTVPLN	-DTVPI754
49	WTAP-TV	PARKERSBURG WV	387.0	PLN	DTVPLN	-DTVPI757
50	WDTN	DAYTON OH	205.1	LIC	BLCDDT	-20050629AAL
50	WDTN	DAYTON OH	205.1	PLN	DTVPLN	-DTVPI773
49	WTAP-DT	PARKERSBURG WV	387.1	APP	USERRECORD-01	

Total scenarios = 12

Result key: 13

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 5 of 16)

Scenario 1 Affected station 4  
Before Analysis

Results for: 49A KY LOUISVILLE DTVPLN DTVP1740 PLN  
HAAT 390.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1787308	33324.7
not affected by terrain losses	1771700	32360.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	12529	230.0
lost to ATV IX only	12529	230.0
lost to all IX	12529	230.0

Potential Interfering Stations Included in above Scenario 1

48A IN BLOOMINGTON	BPCDT	20060707AFA	CP
49A KY PADUCAH	DTVPLN	DTV1741	PLN
49A VA GRUNDY	BPCDT	19991029AGK	CP

After Analysis

Results for: 49A KY LOUISVILLE DTVPLN DTVP1740 PLN  
HAAT 390.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1787308	33324.7
not affected by terrain losses	1771700	32360.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	12582	234.1
lost to ATV IX only	12582	234.1
lost to all IX	12582	234.1

Potential Interfering Stations Included in above Scenario 1

48A IN BLOOMINGTON	BPCDT	20060707AFA	CP
49A KY PADUCAH	DTVPLN	DTV1741	PLN
49A VA GRUNDY	BPCDT	19991029AGK	CP
49A WV PARKERSBURG	USERRECORD01		APP

Percent new IX = 0.0030%

Worst case new IX 0.0030% Scenario 1

#####

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	WNWO-TV	TOLEDO OH	BLCDT -20020403AAR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	WAQP	SAGINAW MI	182.0	LIC	BLCDT -20060824ADS
48	WAQP	SAGINAW MI	182.0	PLN	DTVPLN -DTV1711
49	WDRB	LOUISVILLE KY	425.4	CP	BPCDT -20051130ACJ
49	WDRB	LOUISVILLE KY	425.4	PLN	DTVPLN -DTV1740
49	WTAP-TV	PARKERSBURG WV	298.8	PLN	DTVPLN -DTV1757
50	WEAO	AKRON OH	157.7	LIC	BLEDT -20040928AQT
50	WEAO	AKRON OH	157.7	PLN	DTVPLN -DTV1772

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 6 of 16)

49 WTAP-DT PARKERSBURG WV 298.7 APP USERRECORD-01  
Proposal causes no interference

#####

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	WNWO-TV	TOLEDO OH	DTVPLN -DTV1748

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	WAQP	SAGINAW MI	182.0	LIC	BLCDT -20060824ADS
48	WAQP	SAGINAW MI	182.0	PLN	DTVPLN -DTV1711
49	WDRB	LOUISVILLE KY	425.4	CP	BPCDT -20051130ACJ
49	WDRB	LOUISVILLE KY	425.4	PLN	DTVPLN -DTV1740
49	WTAP-TV	PARKERSBURG WV	298.8	PLN	DTVPLN -DTV1757
50	WEAO	AKRON OH	157.7	LIC	BLEDT -20040928AQT
50	WEAO	AKRON OH	157.7	PLN	DTVPLN -DTV1772
49	WTAP-DT	PARKERSBURG WV	298.7	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	WLLS-LP	INDIANA PA	BLTTL -19961230JA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
41	WKBN-TV	YOUNGSTOWN OH	129.5	CP	BPCDT -19991025ACU
41	WKBN-TV	YOUNGSTOWN OH	129.5	PLN	DTVPLN -DTV1481
42	WPMY	PITTSBURGH PA	68.4	LIC	BLCDT -20060608AAB
42	WPMY	PITTSBURGH PA	68.4	PLN	DTVPLN -DTV1515
46	WKBS-TV	ALTOONA PA	65.6	LIC	BLCDT -20060629ACS
46	WKBS-TV	ALTOONA PA	65.6	PLN	DTVPLN -DTV1656
48	WPXI	PITTSBURGH PA	69.2	LIC	BLCDT -20050609AAQ
48	WPXI	PITTSBURGH PA	69.2	PLN	DTVPLN -DTV1717
49	WNYO-TV	BUFFALO NY	247.7	LIC	BLCT -19870911KH
49	WEAO	AKRON OH	209.6	LIC	BMLET -20041027ABS
49	WNWO-TV	TOLEDO OH	365.4	LIC	BLCDT -20020403AAR
49	WNWO-TV	TOLEDO OH	365.4	PLN	DTVPLN -DTV1748
49	W49CS	ERIE PA	172.8	CP	BNFTTL -20000830BMX
49	WGCB-TV	RED LION PA	237.1	LIC	BLCT -19790419KG
49	WNEP-TV	SCRANTON PA	287.6	LIC	BLCDT -20020807AAF
49	WNEP-TV	SCRANTON PA	287.6	PLN	DTVPLN -DTV1750
49	WHSV-TV	HARRISONBURG VA	230.6	LIC	BLCDT -20060413ACO
49	WHSV-TV	HARRISONBURG VA	230.6	PLN	DTVPLN -DTV1755
49	WTAP-TV	PARKERSBURG WV	245.5	LIC	BLCDT -20040423ABG
49	WTAP-TV	PARKERSBURG WV	245.5	PLN	DTVPLN -DTV1757
50	WPCB-TV	GREENSBURG PA	54.6	LIC	BLCDT -20030409ABC
50	WPCB-TV	GREENSBURG PA	54.6	PLN	DTVPLN -DTV1776
51	WTAE-TV	PITTSBURGH PA	63.0	LIC	BLCDT -20041014AEY



**Table 1 WTAP-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 7 of 16)

51	WTAE-TV	PITTSBURGH PA	63.0	PLN	DTVPLN	-DTVP1809
64	WBOA-LP	KITTANNING PA	32.5	LIC	BLTTL	-19990322JB
64	WBOA-LP	KITTANNING PA	32.5	APP	BMPTTL	-19961120JA
49	WTAP-DT	PARKERSBURG WV	245.5	APP	USERRECORD-01	
Proposal causes no interference						

#####

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	WLFG	GRUNDY VA	BPCDT	-19991029AGK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WVLR	TAZEWELL TN	152.2	CP	BPCDT	-20080328AFF
48	WVLR	TAZEWELL TN	152.2	PLN	DTVPLN	-DTVP1720
49	WDRB	LOUISVILLE KY	372.5	CP	BPCDT	-20051130ACJ
49	WDRB	LOUISVILLE KY	372.5	PLN	DTVPLN	-DTVP1740
49	WRAZ	RALEIGH NC	343.2	CP MOD	BMPCDT	-20040329AKW
49	WRAZ	RALEIGH NC	343.2	PLN	DTVPLN	-DTVP1745
49	WHSV-TV	HARRISONBURG VA	361.4	LIC	BLCDT	-20060413ACO
49	WHSV-TV	HARRISONBURG VA	361.4	PLN	DTVPLN	-DTVP1755
49	WTAP-TV	PARKERSBURG WV	283.7	PLN	DTVPLN	-DTVP1757
50	WAXN-TV	KANNAPOLIS NC	212.5	LIC	BLCDT	-20020426AAN
50	WAXN-TV	KANNAPOLIS NC	212.5	PLN	DTVPLN	-DTVP1769
50	WOAY-TV	OAK HILL WV	149.8	LIC	BLCDT	-20070426AAK
50	WOAY-TV	OAK HILL WV	149.8	PLN	DTVPLN	-DTVP1784
49	WTAP-DT	PARKERSBURG WV	283.7	APP	USERRECORD-01	

Total scenarios = 8

Result key: 25

Scenario 1 Affected station 8

Before Analysis

Results for: 49A VA GRUNDY	BPCDT	19991029AGK	CP
HAAT 662.0 m, ATV ERP 1000.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1592171	46580.8	
not affected by terrain losses	1188566	35402.7	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	9375	373.7	
lost to ATV IX only	9375	373.7	
lost to all IX	9375	373.7	

Potential Interfering Stations Included in above Scenario 1

48A TN TAZEWELL	BPCDT	20080328AFF	CP
49A KY LOUISVILLE	BPCDT	20051130ACJ	CP
49A NC RALEIGH	BMPCDT	20040329AKW	CP
50A WV OAK HILL	DTVPLN	DTVP1784	PLN
49A WV PARKERSBURG	DTVPLN	DTVP1757	PLN

After Analysis

Results for: 49A VA GRUNDY	BPCDT	19991029AGK	CP
----------------------------	-------	-------------	----

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 8 of 16)

HAAT 662.0 m, ATV ERP 1000.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	1592171	46580.8
not affected by terrain losses	1188566	35402.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	12264	542.4
lost to ATV IX only	12264	542.4
lost to all IX	12264	542.4

Potential Interfering Stations Included in above Scenario 1

48A TN TAZEWELL	BPCDT	20080328AFF	CP
49A KY LOUISVILLE	BPCDT	20051130ACJ	CP
49A NC RALEIGH	BMPCDT	20040329AKW	CP
50A WV OAK HILL	DTVPLN	DTVP1784	PLN
49A WV PARKERSBURG	USERRECORD01		APP

Percent new IX = 0.2450%

Worst case new IX 0.2450% Scenario 1

#####

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	WLFG	GRUNDY VA	DTVPLN	-DTVP1754

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WVLR	TAZEWELL TN	152.2	CP	BPCDT	-20080328AFF
48	WVLR	TAZEWELL TN	152.2	PLN	DTVPLN	-DTVP1720
49	WDRB	LOUISVILLE KY	372.5	CP	BPCDT	-20051130ACJ
49	WDRB	LOUISVILLE KY	372.5	PLN	DTVPLN	-DTVP1740
49	WRAZ	RALEIGH NC	343.2	CP MOD	BMPCDT	-20040329AKW
49	WRAZ	RALEIGH NC	343.2	PLN	DTVPLN	-DTVP1745
49	WHSV-TV	HARRISONBURG VA	361.4	LIC	BLCDT	-20060413ACO
49	WHSV-TV	HARRISONBURG VA	361.4	PLN	DTVPLN	-DTVP1755
49	WTAP-TV	PARKERSBURG WV	283.7	PLN	DTVPLN	-DTVP1757
50	WAXN-TV	KANNAPOLIS NC	212.5	LIC	BLCDT	-20020426AAN
50	WAXN-TV	KANNAPOLIS NC	212.5	PLN	DTVPLN	-DTVP1769
50	WOAY-TV	OAK HILL WV	149.8	LIC	BLCDT	-20070426AAK
50	WOAY-TV	OAK HILL WV	149.8	PLN	DTVPLN	-DTVP1784
49	WTAP-DT	PARKERSBURG WV	283.7	APP	USERRECORD-01	

Total scenarios = 8

Result key: 33

Scenario 1 Affected station 9

Before Analysis

Results for: 49A VA GRUNDY	DTVPLN	DTVP1754	PLN
HAAT 662.0 m, ATV ERP 1000.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1592171	46580.8	
not affected by terrain losses	1188566	35402.7	
lost to NTSC IX	0	0.0	

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 9 of 16)

lost to additional IX by ATV	9375	373.7
lost to ATV IX only	9375	373.7
lost to all IX	9375	373.7

Potential Interfering Stations Included in above Scenario 1

48A TN TAZEWEILL	BPCDT	20080328AFF	CP
49A KY LOUISVILLE	BPCDT	20051130ACJ	CP
49A NC RALEIGH	BMPCDT	20040329AKW	CP
50A WV OAK HILL	DTVPLN	DTVP1784	PLN
49A WV PARKERSBURG	DTVPLN	DTVP1757	PLN

## After Analysis

Results for: 49A VA GRUNDY	DTVPLN	DTVP1754	PLN
HAAT 662.0 m, ATV ERP 1000.0 kW			

	POPULATION	AREA (sq km)
within Noise Limited Contour	1592171	46580.8
not affected by terrain losses	1188566	35402.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	12264	542.4
lost to ATV IX only	12264	542.4
lost to all IX	12264	542.4

Potential Interfering Stations Included in above Scenario 1

48A TN TAZEWEILL	BPCDT	20080328AFF	CP
49A KY LOUISVILLE	BPCDT	20051130ACJ	CP
49A NC RALEIGH	BMPCDT	20040329AKW	CP
50A WV OAK HILL	DTVPLN	DTVP1784	PLN
49A WV PARKERSBURG	USERRECORD01		APP

Percent new IX = 0.2450%

Worst case new IX 0.2450% Scenario 1

#####

Analysis of Interference to Affected Station 10

## Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	WHSV-TV	HARRISONBURG VA	BLCDDT	-20060413ACO

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WRC-TV	WASHINGTON DC	139.6	LIC	BLCDDT	-20000216AAT
48	WRC-TV	WASHINGTON DC	139.6	PLN	DTVPLN	-DTVP1701
49	WRAZ	RALEIGH NC	325.4	CP MOD	BMPCDT	-20040329AKW
49	WRAZ	RALEIGH NC	325.4	PLN	DTVPLN	-DTVP1745
49	WWSI	ATLANTIC CITY NJ	386.3	LIC	BLCDDT	-20020812ABS
49	WWSI	ATLANTIC CITY NJ	386.3	PLN	DTVPLN	-DTVP1747
49	WNEP-TV	SCRANTON PA	371.3	LIC	BLCDDT	-20020807AAF
49	WNEP-TV	SCRANTON PA	371.3	PLN	DTVPLN	-DTVP1750
49	WLFG	GRUNDY VA	361.4	CP	BPCDDT	-19991029AGK
49	WLFG	GRUNDY VA	361.4	PLN	DTVPLN	-DTVP1754
49	WTAP-TV	PARKERSBURG WV	266.7	PLN	DTVPLN	-DTVP1757
50	WDCW	WASHINGTON DC	144.8	PLN	DTVPLN	-DTVP1762
50	WDCW	WASHINGTON DC	144.8	APP	BPCDDT	-20080229ACH

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 10 of 16)

50	WPCB-TV	GREENSBURG PA	222.2	LIC	BLCDDT	-20030409ABC
50	WPCB-TV	GREENSBURG PA	222.2	PLN	DTVPLN	-DTVP1776
49	WTAP-DT	PARKERSBURG WV	266.7	APP	USERRECORD-01	

Total scenarios = 32

Result key:	41
Scenario	1 Affected station 10
Before Analysis	

Results for: 49A VA HARRISONBURG	BLCDDT	20060413ACO	LIC
HAAT 639.0 m, ATV ERP 65.0 kW			

	POPULATION	AREA (sq km)
within Noise Limited Contour	857082	28974.9
not affected by terrain losses	476292	15630.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5297	188.9
lost to ATV IX only	5297	188.9
lost to all IX	5297	188.9

Potential Interfering Stations Included in above Scenario 1

48A DC WASHINGTON	BLCDDT	20000216AAT	LIC
49A NC RALEIGH	BMPCDDT	20040329AKW	CP
49A PA SCRANTON	BLCDDT	20020807AAF	LIC
49A VA GRUNDY	BPCDDT	19991029AGK	CP
50A DC WASHINGTON	DTVPLN	DTVP1762	PLN

## After Analysis

Results for: 49A VA HARRISONBURG	BLCDDT	20060413ACO	LIC
HAAT 639.0 m, ATV ERP 65.0 kW			

	POPULATION	AREA (sq km)
within Noise Limited Contour	857082	28974.9
not affected by terrain losses	476292	15630.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5466	265.3
lost to ATV IX only	5466	265.3
lost to all IX	5466	265.3

Potential Interfering Stations Included in above Scenario 1

48A DC WASHINGTON	BLCDDT	20000216AAT	LIC
49A NC RALEIGH	BMPCDDT	20040329AKW	CP
49A PA SCRANTON	BLCDDT	20020807AAF	LIC
49A VA GRUNDY	BPCDDT	19991029AGK	CP
50A DC WASHINGTON	DTVPLN	DTVP1762	PLN
49A WV PARKERSBURG	USERRECORD01		APP

Percent new IX = 0.0359%

Worst case new IX 0.0359% Scenario 1

#####

Analysis of Interference to Affected Station 11

## Analysis of current record

Channel	Call	City/State	Application	Ref. No.
---------	------	------------	-------------	----------

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 11 of 16)

49	WHSV-TV	HARRISONBURG VA	DTVPLN	-DTV1755
Stations Potentially Affecting This Station				
Chan	Call	City/State	Dist(km)	Status Application Ref. No.
48	WRC-TV	WASHINGTON DC	139.6	LIC BLCDT -20000216AAT
48	WRC-TV	WASHINGTON DC	139.6	PLN DTVPLN -DTV1701
49	WRAZ	RALEIGH NC	325.4	CP MOD BMPCDT -20040329AKW
49	WRAZ	RALEIGH NC	325.4	PLN DTVPLN -DTV1745
49	WWSI	ATLANTIC CITY NJ	386.3	LIC BLCDT -20020812ABS
49	WWSI	ATLANTIC CITY NJ	386.3	PLN DTVPLN -DTV1747
49	WNEP-TV	SCRANTON PA	371.3	LIC BLCDT -20020807AAF
49	WNEP-TV	SCRANTON PA	371.3	PLN DTVPLN -DTV1750
49	WLFG	GRUNDY VA	361.4	CP BPCDT -19991029AGK
49	WLFG	GRUNDY VA	361.4	PLN DTVPLN -DTV1754
49	WTAP-TV	PARKERSBURG WV	266.7	PLN DTVPLN -DTV1757
50	WDCW	WASHINGTON DC	144.8	PLN DTVPLN -DTV1762
50	WDCW	WASHINGTON DC	144.8	APP BPCDT -20080229ACH
50	WPCB-TV	GREENSBURG PA	222.2	LIC BLCDT -20030409ABC
50	WPCB-TV	GREENSBURG PA	222.2	PLN DTVPLN -DTV1776
49	WTAP-DT	PARKERSBURG WV	266.7	APP USERRECORD-01

Total scenarios = 32

Result key: 73  
Scenario 1 Affected station 11  
Before Analysis

Results for: 49A VA HARRISONBURG	DTVPLN	DTV1755	PLN
HAAT 638.0 m, ATV ERP 65.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	857082	28974.9	
not affected by terrain losses	476292	15630.9	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	5297	188.9	
lost to ATV IX only	5297	188.9	
lost to all IX	5297	188.9	

Potential Interfering Stations Included in above Scenario 1

48A DC WASHINGTON	BLCDT	20000216AAT	LIC
49A NC RALEIGH	BMPCDT	20040329AKW	CP
49A PA SCRANTON	BLCDT	20020807AAF	LIC
49A VA GRUNDY	BPCDT	19991029AGK	CP
50A DC WASHINGTON	DTVPLN	DTV1762	PLN

After Analysis

Results for: 49A VA HARRISONBURG	DTVPLN	DTV1755	PLN
HAAT 638.0 m, ATV ERP 65.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	857082	28974.9	
not affected by terrain losses	476292	15630.9	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	5466	265.3	
lost to ATV IX only	5466	265.3	
lost to all IX	5466	265.3	

Potential Interfering Stations Included in above Scenario 1

48A DC WASHINGTON	BLCDT	20000216AAT	LIC
-------------------	-------	-------------	-----

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 12 of 16)

49A NC RALEIGH	BMPCDT	20040329AKW	CP
49A PA SCRANTON	BLCDT	20020807AAF	LIC
49A VA GRUNDY	BPCDT	19991029AGK	CP
50A DC WASHINGTON	DTVPLN	DTV1762	PLN
49A WV PARKERSBURG	USERRECORD01		APP

Percent new IX = 0.0359%

Worst case new IX 0.0359% Scenario 1

#####

Analysis of Interference to Affected Station 12

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
50	WEAO	AKRON OH	BLEDT	-20040928AQT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
49	WNWO-TV	TOLEDO OH	157.7	LIC BLCDT	-20020403AAR
49	WNWO-TV	TOLEDO OH	157.7	PLN DTVPLN	-DTV1748
49	WTAP-TV	PARKERSBURG WV	192.7	PLN DTVPLN	-DTV1757
50	WDTN	DAYTON OH	268.8	LIC BLCDT	-20050629AAL
50	WDTN	DAYTON OH	268.8	PLN DTVPLN	-DTV1773
50	WQLN	ERIE PA	168.5	LIC BLCDT	-20060601BCQ
50	WQLN	ERIE PA	168.5	PLN DTVPLN	-DTV1775
50	WQLN	ERIE PA	168.5	APP BNPEDT	-20000412AAR
50	WPCB-TV	GREENSBURG PA	173.8	LIC BLCDT	-20030409ABC
50	WPCB-TV	GREENSBURG PA	173.8	PLN DTVPLN	-DTV1776
50	WOAY-TV	OAK HILL WV	349.9	LIC BLCDT	-20070426AAK
50	WOAY-TV	OAK HILL WV	349.9	PLN DTVPLN	-DTV1784
51	WTAE-TV	PITTSBURGH PA	178.2	LIC BLCDT	-20041014AEY
51	WTAE-TV	PITTSBURGH PA	178.2	PLN DTVPLN	-DTV1809
49	WTAP-DT	PARKERSBURG WV	192.7	APP USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 13

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
50	WEAO	AKRON OH	DTVPLN	-DTV1772

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
49	WNWO-TV	TOLEDO OH	157.7	LIC BLCDT	-20020403AAR
49	WNWO-TV	TOLEDO OH	157.7	PLN DTVPLN	-DTV1748
49	WTAP-TV	PARKERSBURG WV	192.7	PLN DTVPLN	-DTV1757
50	WDTN	DAYTON OH	268.8	LIC BLCDT	-20050629AAL
50	WDTN	DAYTON OH	268.8	PLN DTVPLN	-DTV1773
50	WQLN	ERIE PA	168.5	LIC BLCDT	-20060601BCQ
50	WQLN	ERIE PA	168.5	PLN DTVPLN	-DTV1775

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 13 of 16)

50	WQLN	ERIE PA	168.5	APP	BMPEDT	-20000412AAR
50	WPCB-TV	GREENSBURG PA	173.8	LIC	BLCDT	-20030409ABC
50	WPCB-TV	GREENSBURG PA	173.8	PLN	DTVPLN	-DTVPI776
50	WOAY-TV	OAK HILL WV	349.9	LIC	BLCDT	-20070426AAK
50	WOAY-TV	OAK HILL WV	349.9	PLN	DTVPLN	-DTVPI784
51	WTAE-TV	PITTSBURGH PA	178.2	LIC	BLCDT	-20041014AEY
51	WTAE-TV	PITTSBURGH PA	178.2	PLN	DTVPLN	-DTVPI809
49	WTAP-DT	PARKERSBURG WV	192.7	APP	USERRECORD-01	

Proposed station is beyond the site to  
nearest cell evaluation distance

#####

#### Analysis of Interference to Affected Station 14

##### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	WPCB-TV	GREENSBURG PA	BLCDT	-20030409ABC

##### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WHSV-TV	HARRISONBURG VA	222.2	LIC	BLCDT	-20060413ACO
49	WHSV-TV	HARRISONBURG VA	222.2	PLN	DTVPLN	-DTVPI755
49	WTAP-TV	PARKERSBURG WV	191.3	PLN	DTVPLN	-DTVPI757
50	WDCW	WASHINGTON DC	284.3	PLN	DTVPLN	-DTVPI762
50	WDCW	WASHINGTON DC	284.3	APP	BPCDT	-20080229ACH
50	WEAO	AKRON OH	173.8	LIC	BLEDT	-20040928AQT
50	WEAO	AKRON OH	173.8	PLN	DTVPLN	-DTVPI772
50	WDTN	DAYTON OH	387.9	LIC	BLCDT	-20050629AAL
50	WDTN	DAYTON OH	387.9	PLN	DTVPLN	-DTVPI773
50	WQLN	ERIE PA	184.9	LIC	BLEDT	-20060601BCQ
50	WQLN	ERIE PA	184.9	PLN	DTVPLN	-DTVPI775
50	WQLN	ERIE PA	184.9	APP	BMPEDT	-20000412AAR
50	WOAY-TV	OAK HILL WV	295.3	LIC	BLCDT	-20070426AAK
50	WOAY-TV	OAK HILL WV	295.3	PLN	DTVPLN	-DTVPI784
51	WTAE-TV	PITTSBURGH PA	12.6	LIC	BLCDT	-20041014AEY
51	WTAE-TV	PITTSBURGH PA	12.6	PLN	DTVPLN	-DTVPI809
49	WTAP-DT	PARKERSBURG WV	191.3	APP	USERRECORD-01	

Proposal causes no interference

#####

#### Analysis of Interference to Affected Station 15

##### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	WPCB-TV	GREENSBURG PA	DTVPLN	-DTVPI776

##### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WHSV-TV	HARRISONBURG VA	222.2	LIC	BLCDT	-20060413ACO
49	WHSV-TV	HARRISONBURG VA	222.2	PLN	DTVPLN	-DTVPI755
49	WTAP-TV	PARKERSBURG WV	191.3	PLN	DTVPLN	-DTVPI757
50	WDCW	WASHINGTON DC	284.3	PLN	DTVPLN	-DTVPI762
50	WDCW	WASHINGTON DC	284.3	APP	BPCDT	-20080229ACH

**Table 1 WTAP-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 14 of 16)

50	WEAO	AKRON OH	173.8	LIC	BLEDT	-20040928AQT
50	WEAO	AKRON OH	173.8	PLN	DTVPLN	-DTVPI772
50	WDTN	DAYTON OH	387.9	LIC	BLCDT	-20050629AAL
50	WDTN	DAYTON OH	387.9	PLN	DTVPLN	-DTVPI773
50	WQLN	ERIE PA	184.9	LIC	BLEDT	-20060601BCQ
50	WQLN	ERIE PA	184.9	PLN	DTVPLN	-DTVPI775
50	WQLN	ERIE PA	184.9	APP	BMPEDT	-20000412AAR
50	WOAY-TV	OAK HILL WV	295.3	LIC	BLCDT	-20070426AAK
50	WOAY-TV	OAK HILL WV	295.3	PLN	DTVPLN	-DTVPI784
51	WTAE-TV	PITTSBURGH PA	12.6	LIC	BLCDT	-20041014AEY
51	WTAE-TV	PITTSBURGH PA	12.6	PLN	DTVPLN	-DTVPI809
49	WTAP-DT	PARKERSBURG WV	191.3	APP	USERRECORD-01	

Proposal causes no interference

#####

#### Analysis of Interference to Affected Station 16

##### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	WOAY-TV	OAK HILL WV	BLCDT	-20070426AAK

##### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WLFG	GRUNDY VA	149.8	CP	BPCDT	-19991029AGK
49	WLFG	GRUNDY VA	149.8	PLN	DTVPLN	-DTVPI754
49	WTAP-TV	PARKERSBURG WV	158.9	PLN	DTVPLN	-DTVPI757
50	WDCW	WASHINGTON DC	375.9	PLN	DTVPLN	-DTVPI762
50	WDCW	WASHINGTON DC	375.9	APP	BPCDT	-20080229ACH
50	WAXN-TV	KANNAPOLIS NC	302.0	LIC	BLCDT	-20020426AAN
50	WAXN-TV	KANNAPOLIS NC	302.0	PLN	DTVPLN	-DTVPI769
50	WEAO	AKRON OH	349.9	LIC	BLEDT	-20040928AQT
50	WEAO	AKRON OH	349.9	PLN	DTVPLN	-DTVPI772
50	WDTN	DAYTON OH	332.5	LIC	BLCDT	-20050629AAL
50	WDTN	DAYTON OH	332.5	PLN	DTVPLN	-DTVPI773
50	WPCB-TV	GREENSBURG PA	295.3	LIC	BLCDT	-20030409ABC
50	WPCB-TV	GREENSBURG PA	295.3	PLN	DTVPLN	-DTVPI776
49	WTAP-DT	PARKERSBURG WV	158.9	APP	USERRECORD-01	

Proposal causes no interference

#####

#### Analysis of Interference to Affected Station 17

##### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	WOAY-TV	OAK HILL WV	DTVPLN	-DTVPI784

##### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WLFG	GRUNDY VA	149.8	CP	BPCDT	-19991029AGK
49	WLFG	GRUNDY VA	149.8	PLN	DTVPLN	-DTVPI754
49	WTAP-TV	PARKERSBURG WV	158.9	PLN	DTVPLN	-DTVPI757
50	WDCW	WASHINGTON DC	375.9	PLN	DTVPLN	-DTVPI762
50	WDCW	WASHINGTON DC	375.9	APP	BPCDT	-20080229ACH
50	WAXN-TV	KANNAPOLIS NC	302.0	LIC	BLCDT	-20020426AAN

Table 1 WTAP-DT OET Bulletin 69 Interference Study  
(worst-case scenarios shown page 15 of 16)

50	WAXN-TV	KANNAPOLIS NC	302.0	PLN	DTVPLN	-DTVP1769
50	WEAO	AKRON OH	349.9	LIC	BLEDT	-20040928AQT
50	WEAO	AKRON OH	349.9	PLN	DTVPLN	-DTVP1772
50	WDTN	DAYTON OH	332.5	LIC	BLCDDT	-20050629AAL
50	WDTN	DAYTON OH	332.5	PLN	DTVPLN	-DTVP1773
50	WPCB-TV	GREENSBURG PA	295.3	LIC	BLCDDT	-20030409ABC
50	WPCB-TV	GREENSBURG PA	295.3	PLN	DTVPLN	-DTVP1776
49	WTAP-DT	PARKERSBURG WV	158.9	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	WTAP-DT	PARKERSBURG WV	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	WPXI	PITTSBURGH PA	181.7	LIC	BLCDDT -20050609AAQ
48	WPXI	PITTSBURGH PA	181.7	PLN	DTVPLN -DTVP1717
49	WDRB	LOUISVILLE KY	387.1	CP	BPCDDT -20051130ACJ
49	WDRB	LOUISVILLE KY	387.1	PLN	DTVPLN -DTVP1740
49	WNWO-TV	TOLEDO OH	298.7	LIC	BLCDDT -20020403AAR
49	WNWO-TV	TOLEDO OH	298.7	PLN	DTVPLN -DTVP1748
49	WLFG	GRUNDY VA	283.7	CP	BPCDDT -19991029AGK
49	WLFG	GRUNDY VA	283.7	PLN	DTVPLN -DTVP1754
49	WHSV-TV	HARRISONBURG VA	266.7	LIC	BLCDDT -20060413ACO
49	WHSV-TV	HARRISONBURG VA	266.7	PLN	DTVPLN -DTVP1755
50	WEAO	AKRON OH	192.7	LIC	BLEDT -20040928AQT
50	WEAO	AKRON OH	192.7	PLN	DTVPLN -DTVP1772
50	WPCB-TV	GREENSBURG PA	191.3	LIC	BLCDDT -20030409ABC
50	WPCB-TV	GREENSBURG PA	191.3	PLN	DTVPLN -DTVP1776
50	WOAY-TV	OAK HILL WV	158.9	LIC	BLCDDT -20070426AAK
50	WOAY-TV	OAK HILL WV	158.9	PLN	DTVPLN -DTVP1784

Total scenarios = 4

Result key: 108

Scenario 4 Affected station 18  
Before Analysis

Results for: 49A WV PARKERSBURG USERRECORD01 APP  
HAAT 197.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	582964	21014.9
not affected by terrain losses	557246	20209.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5486	241.6
lost to ATV IX only	5486	241.6
lost to all IX	5486	241.6

Potential Interfering Stations Included in above Scenario 4

49A OH TOLEDO	DTVPLN	DTVP1748	PLN
49A VA GRUNDY	DTVPLN	DTVP1754	PLN

#####

Table 1 WTAP-DT OET Bulletin 69 Interference Study  
(worst-case scenarios shown page 16 of 16)

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 <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****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 49 Analog TV, if any 15
2.	Zone: <input checked="" type="radio"/> I <input type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 39 Minutes 21 Seconds 00 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 81 Minutes 33 Seconds 56 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1239800 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 295.7 meters
6.	Overall Tower Height Above Ground Level: 141.1 meters
7.	Height of Radiation Center Above Ground Level: 134 meters
8.	Height of Radiation Center Above Average Terrain : 196 meters
9.	Maximum Effective Radiated Power (average power): 1000 kW
10.	Antenna Specifications:

a. Manufacturer DIE    Model TFU-28GTH-O4	
b. Electrical Beam Tilt: 0.75 degrees <input type="checkbox"/> Not Applicable	
c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable	
Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).	[Exhibit 42]
d. Polarization: <input checked="" type="radio"/> Horizontal <input type="radio"/> Circular <input type="radio"/> Elliptical	
e. Directional Antenna Relative Field Values: <input checked="" type="checkbox"/> Not applicable (Nondirectional)	
[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.] [Relative Field Values]	
If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. <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?	<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 <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 6/15/2008	
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).