ENGINEERING EXHIBIT

"Maximization" Application for Post-Transition Digital Television Station Construction Permit

prepared for

Thomas Broadcasting Company
WOAY-DT Oak Hill, WV
Facility ID 66804
Ch. 50 1000 kW 237 m

Thomas Broadcasting Company ("Thomas") is the licensee of television station WOAY-TV, analog Channel 4 and digital Channel 50, Oak Hill, WV. The WOAY-DT Channel 50 facility is licensed with an effective radiated power ("ERP") of 600 kW at 200 meters antenna height above average terrain ("HAAT"), with a side-mounted nondirectional antenna (BLCDT-20070426AAK). WOAY-DT will remain on its current digital Channel 50 for the post-transition period, as established in Appendix B of the Seventh Report and Order in MB Docket 87-278. *Thomas* herein seeks a Construction Permit to expand the WOAY-DT post-transition Channel 50 digital facility to 1000 kW ERP and 237 meters antenna HAAT. The instant application is intended to be filed by June 20, 2008 in response to the FCC's lifting of the August 3, 2004 "freeze" concerning expansion in service area.[1]

The proposed WOAY-DT Channel 50 antenna system, a Dielectric nondirectional model TFU-28GTH-R O4, will be top-mounted in place of the existing analog Channel 4 antenna on the tower structure. The antenna will be installed on the existing WOAY-TV antenna supporting structure (FCC Antenna Structure Registration number 1053536). 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 Oak Hill, WOAY-DT's principal community. As demonstrated

[1]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 WOAY-DT facility's predicted service population provides a 103.0 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	671,577	683,387
Not affected by terrain losses	523,701	532,850
Lost to all interference	9,009	2,770
Net DTV Service	**514,692**	**530,080**
Match of Appendix B	---	**102.99%**

A detailed interference study per OET Bulletin 69[2] 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 400 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). The site location is beyond the border areas requiring international coordination.

The only authorized AM broadcast station within 3.2 km (2 miles) of the proposed site is WOAY(AM) (Fac ID 12550, 860 kHz, Oak Hill, WV) according to information extracted from the Commission's engineering database. WOAY(AM) employs the same tower structure as WOAY-TV and WOAY-DT. A separate antenna for station WAXS(FM) (Fac ID 52789, Ch. 231B, Oak Hill, WV) is also on the same tower structure.

[2]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.

The installation of the proposed WOAY-DT facility will be coordinated with the WOAY(AM) operation. The WOAY(AM) antenna coupling components will be adjusted as needed following construction, and AM antenna impedance measurements will be conducted. An Application for Direct Measurement of Power for WOAY(AM) on FCC Form 302-AM will be submitted if it is found that the AM antenna impedance has changed beyond the tolerance of licensed values as a result of the WOAY-DT installation. Since the WOAY-DT antenna will be co-located with WOAY(AM) and no change in overall structure height will occur, no pattern disturbance of WOAY(AM) is expected and it is requested that no pattern disturbance condition be placed on the WOAY-DT Construction Permit.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposed transmitting antenna's installation will replace an existing top-mount antenna and involve no change in overall tower height. Thus, it is believed that this application may be 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 7.6 $\mu W/cm^2$, which is 1.7 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will

reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

Certification

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

Joseph M. Davis, P.E.
June 16, 2008

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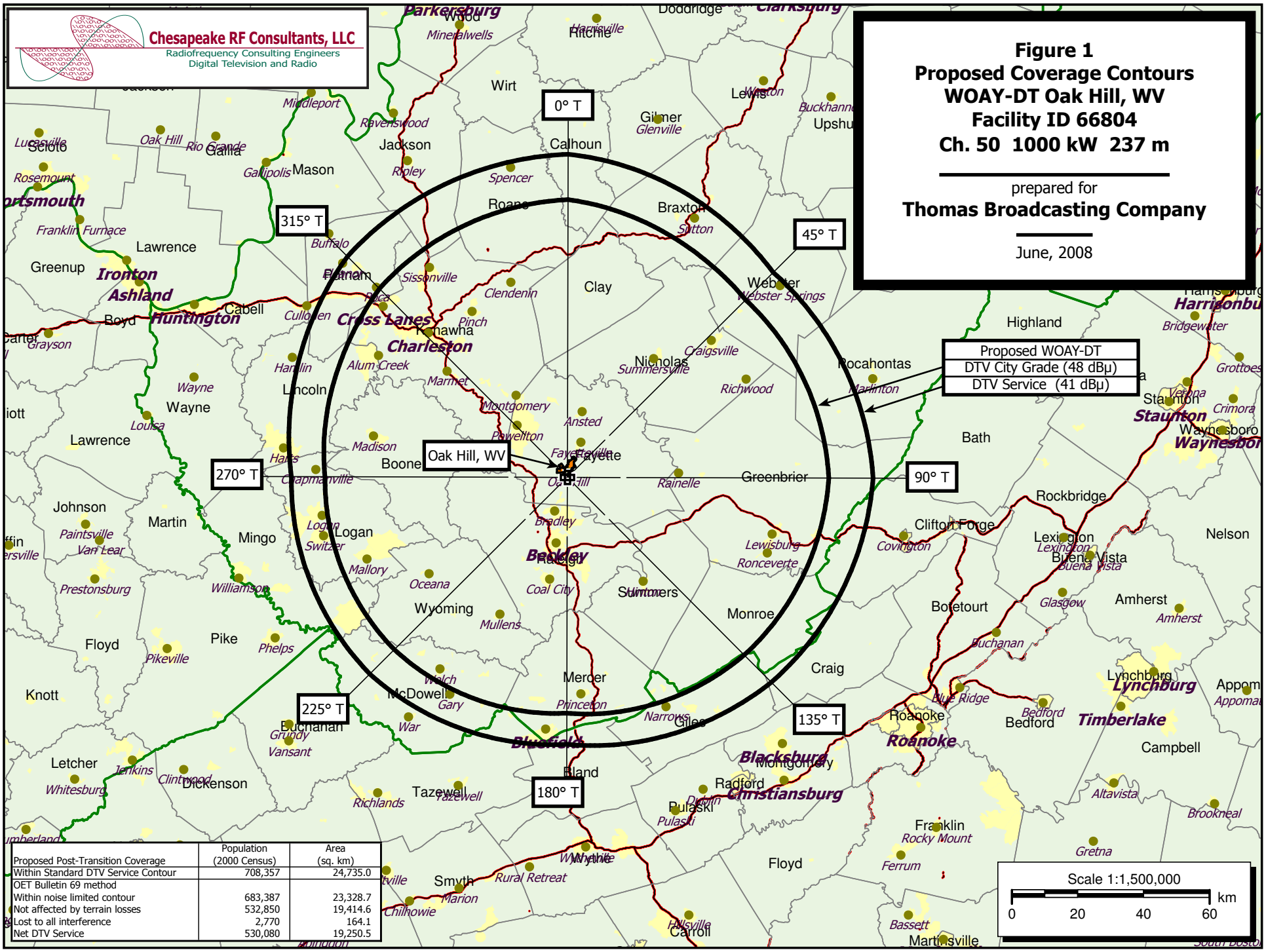
Manassas, VA 20112
703-650-9600

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



Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	708,357	24,735.0
OET Bulletin 69 method		
Within noise limited contour	683,387	23,328.7
Not affected by terrain losses	532,850	19,414.6
Lost to all interference	2,770	164.1
Net DTV Service	530,080	19,250.5

Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 1 of 17)

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: 15:43:23

Record Selected for Analysis

WOAY-DT USERRECORD-01 OAK HILL WV US
Channel 50 ERP 1000. kW HAAT 236. m RCAMSL 00821 m
Latitude 037-57-26 Longitude 0081-09-03
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	308.9	97.8
45.0	1000.000	235.3	87.1
90.0	1000.000	258.7	90.7
135.0	1000.000	232.1	86.7
180.0	1000.000	169.8	80.8
225.0	1000.000	206.2	84.0
270.0	1000.000	193.8	82.9
315.0	1000.000	281.1	94.3

Evaluation toward Class A Stations

Contour overlap to Class A station
WTLU-CA 50 LYNCHBURG VA BLTTA 20040812AAE

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 0.12km from AM station
OAK HILL WV WOAY Status: L Antenna: ND1

Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 2 of 17)

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
50	WOAY-DT	OAK HILL WV	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	WRKV-LP	ROANOKE VA	122.8	APP	BSTA	-20070718AEC
49	WLFG	GRUNDY VA	149.8	CP	BPCDT	-19991029AGK
49	WLFG	GRUNDY VA	149.8	PLN	DTVPLN	-DTVP1754
49	WTAP-TV	PARKERSBURG WV	158.9	LIC	BLCDT	-20040423ABG
49	WTAP-TV	PARKERSBURG WV	158.9	PLN	DTVPLN	-DTVP1757
50	WDCW	WASHINGTON DC	375.9	PLN	DTVPLN	-DTVP1762
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	-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	BLCDT	-20050629AAL
50	WDTN	DAYTON OH	332.5	PLN	DTVPLN	-DTVP1773
50	WPCB-TV	GREENSBURG PA	295.3	LIC	BLCDT	-20030409ABC
50	WPCB-TV	GREENSBURG PA	295.3	PLN	DTVPLN	-DTVP1776
50	WTLU-CA	LYNCHBURG VA	179.6	LIC	BLTTA	-20040812AAE

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	WRKV-LP	ROANOKE VA	BSTA	-20070718AEC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
36	WPXR	ROANOKE VA	1.7	LIC	BLCDT	-20020510AAB
36	WPXR	ROANOKE VA	1.7	PLN	DTVPLN	-DTVP1353
40	WLFB	BLUEFIELD WV	97.3	PLN	DTVPLN	-DTVP1459
40	WLFB	BLUEFIELD WV	97.3	APP	BPCDT	-20080317AIS
42	WMSY-TV	MARION VA	126.2	LIC	BLEDT	-20030428ABS
42	WMSY-TV	MARION VA	126.2	PLN	DTVPLN	-DTVP1521
43	WLXI-TV	GREENSBORO NC	148.9	CP MOD	BMPCDT	-20020201AAN
43	WLXI-TV	GREENSBORO NC	148.9	PLN	DTVPLN	-DTVP1545
43	WLXI-TV	GREENSBORO NC	148.9	LIC	BLCDT	-20060630ADU
43	WPBO	PORTSMOUTH OH	309.0	LIC	BLEDT	-20040323ATV
43	WPBO	PORTSMOUTH OH	309.0	PLN	DTVPLN	-DTVP1550
43	WPGH-TV	PITTSBURGH PA	368.9	CP MOD	BMPCDT	-20021216AAS
43	WPGH-TV	PITTSBURGH PA	368.9	PLN	DTVPLN	-DTVP1552
43	WPGH-TV	PITTSBURGH PA	368.9	LIC	BLCDT	-20021216AAT
43	WFXB	MYRTLE BEACH SC	343.9	LIC	BLCT	-20061117ACG
43	WRET-TV	SPARTANBURG SC	295.2	LIC	BLEDT	-20050324ACD
43	WRET-TV	SPARTANBURG SC	295.2	PLN	DTVPLN	-DTVP1554
43	WTNZ	KNOXVILLE TN	361.7	LIC	BMLCT	-20040706ABH
43	WPXW	MANASSAS VA	305.9	APP	BPCT	-20011214AAQ

Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 3 of 17)

43	W43BO	MARION, ETC. VA	126.2	LIC	BLTTL	-19970425JD
43	WVBT	VIRGINIA BEACH VA	326.5	LIC	BLCT	-19960531KF
44	W44CL	ROANOKE VA	30.0	LIC	BLTT	-20060130AXI
46	WVVA	BLUEFIELD WV	90.6	CP MOD	BMPCDT	-20060707ABJ
46	WVVA	BLUEFIELD WV	90.6	PLN	DTVPLN	-DTVP1665
50	WOAY-TV	OAK HILL WV	122.8	LIC	BLCDT	-20070426AAK
50	WOAY-TV	OAK HILL WV	122.8	PLN	DTVPLN	-DTVP1784
50	WOAY-DT	OAK HILL WV	122.8	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 2

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	LIC	BLCDT -20040423ABG
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	PLN	DTVPLN -DTVP1784
50	WOAY-DT	OAK HILL WV	149.8	APP	USERRECORD-01

Total scenarios = 16

Result key: 1
Scenario 1 Affected station 2
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

Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 4 of 17)

49A WV PARKERSBURG	BLCDT	20040423ABG	LIC
50A WV OAK HILL	DTVPLN	DTVP1784	PLN

After 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
49A WV PARKERSBURG	BLCDT	20040423ABG	LIC
50A WV OAK HILL	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 3

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	LIC	BLCDT -20040423ABG
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	PLN	DTVPLN -DTVP1784
50	WOAY-DT	OAK HILL WV	149.8	APP	USERRECORD-01

Total scenarios = 16

Result key: 17
Scenario 1 Affected station 3
Before Analysis

Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 17)

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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        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
49A WV PARKERSBURG          BLCDT     20040423ABG  LIC
50A WV OAK HILL             DTVPLN    DTVP1784     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        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
49A WV PARKERSBURG          BLCDT     20040423ABG  LIC
50A WV OAK HILL             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   4


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   49      WTAP-TV    PARKERSBURG WV            BLCDT     -20040423ABG

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 48   WPXI     PITTSBURGH PA            181.8  LIC    BLCDT     -20050609AAQ
 48   WPXI     PITTSBURGH PA            181.8  PLN    DTVPLN    -DTVP1717
 49   WDRB     LOUISVILLE KY            387.0  CP     BPCDT     -20051130ACJ
 49   WDRB     LOUISVILLE KY            387.0  PLN    DTVPLN    -DTVP1740
 49   WNWO-TV  TOLEDO OH                298.8  LIC    BLCDT     -20020403AAR
 49   WNWO-TV  TOLEDO OH                298.8  PLN    DTVPLN    -DTVP1748
 49   WLFG     GRUNDY VA                283.7  CP     BPCDT     -19991029AGK
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Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 17)

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 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  PLN    DTVPLN    -DTVP1784
 50   WOAY-DT  OAK HILL WV              158.9  APP    USERRECORD-01
 Proposal causes no interference

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     Analysis of Interference to Affected Station   5


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   49      WTAP-TV    PARKERSBURG WV            DTVPLN    -DTVP1757

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 48   WPXI     PITTSBURGH PA            181.8  LIC    BLCDT     -20050609AAQ
 48   WPXI     PITTSBURGH PA            181.8  PLN    DTVPLN    -DTVP1717
 49   WDRB     LOUISVILLE KY            387.0  CP     BPCDT     -20051130ACJ
 49   WDRB     LOUISVILLE KY            387.0  PLN    DTVPLN    -DTVP1740
 49   WNWO-TV  TOLEDO OH                298.8  LIC    BLCDT     -20020403AAR
 49   WNWO-TV  TOLEDO OH                298.8  PLN    DTVPLN    -DTVP1748
 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  PLN    DTVPLN    -DTVP1784
 50   WOAY-DT  OAK HILL WV              158.9  APP    USERRECORD-01
 Proposal causes no interference

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     Analysis of Interference to Affected Station   6


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   50      WDCW       WASHINGTON DC             DTVPLN    -DTVP1762

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 49   WHSV-TV  HARRISONBURG VA          144.8  LIC    BLCDT     -20060413ACO
 49   WHSV-TV  HARRISONBURG VA          144.8  PLN    DTVPLN    -DTVP1755
 50   WQLN     ERIE PA                  428.0  LIC    BLEDT     -20060601BCQ
 50   WQLN     ERIE PA                  428.0  PLN    DTVPLN    -DTVP1775
 50   WQLN     ERIE PA                  428.0  APP    BMPEDT    -20000412AAR
 50   WPCB-TV  GREENSBURG PA            284.3  LIC    BLCDT     -20030409ABC
 50   WPCB-TV  GREENSBURG PA            284.3  PLN    DTVPLN    -DTVP1776
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50	WGNT	PORTSMOUTH VA	244.1	LIC	BLCDT	-20020718AAK
50	WGNT	PORTSMOUTH VA	244.1	PLN	DTVPLN	-DTVP1780
50	WOAY-TV	OAK HILL WV	375.9	PLN	DTVPLN	-DTVP1784
50	WOAY-DT	OAK HILL WV	375.9	APP	USERRECORD	-01

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	WDCW	WASHINGTON DC	BPCDT	-20080229ACH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WHSV-TV	HARRISONBURG VA	144.8	LIC	BLCDT	-20060413ACO
49	WHSV-TV	HARRISONBURG VA	144.8	PLN	DTVPLN	-DTVP1755
50	WQLN	ERIE PA	428.0	LIC	BLEDT	-20060601BCQ
50	WQLN	ERIE PA	428.0	PLN	DTVPLN	-DTVP1775
50	WQLN	ERIE PA	428.0	APP	BMPEDT	-20000412AAR
50	WPCB-TV	GREENSBURG PA	284.3	LIC	BLCDT	-20030409ABC
50	WPCB-TV	GREENSBURG PA	284.3	PLN	DTVPLN	-DTVP1776
50	WGNT	PORTSMOUTH VA	244.1	LIC	BLCDT	-20020718AAK
50	WGNT	PORTSMOUTH VA	244.1	PLN	DTVPLN	-DTVP1780
50	WOAY-TV	OAK HILL WV	375.9	PLN	DTVPLN	-DTVP1784
50	WOAY-DT	OAK HILL WV	375.9	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.
50	WAXN-TV	KANNAPOLIS NC	BLCDT	-20020426AAN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WRAZ	RALEIGH NC	204.3	CP MOD	BMPCDT	-20040329AKW
49	WRAZ	RALEIGH NC	204.3	PLN	DTVPLN	-DTVP1745
49	WLFG	GRUNDY VA	212.5	CP	BPCDT	-19991029AGK
49	WLFG	GRUNDY VA	212.5	PLN	DTVPLN	-DTVP1754
50	WCBD-TV	CHARLESTON SC	274.9	CP MOD	BMPCDT	-20040419ABK
50	WCBD-TV	CHARLESTON SC	274.9	PLN	DTVPLN	-DTVP1778
50	WGNT	PORTSMOUTH VA	420.2	LIC	BLCDT	-20020718AAK
50	WGNT	PORTSMOUTH VA	420.2	PLN	DTVPLN	-DTVP1780
50	WOAY-TV	OAK HILL WV	302.0	PLN	DTVPLN	-DTVP1784
51	WFXG	AUGUSTA GA	228.9	CP MOD	BMPCDT	-20080219ATL
51	WFXG	AUGUSTA GA	228.9	PLN	DTVPLN	-DTVP1791
51	WFMY-TV	GREENSBORO NC	104.9	LIC	BLCDT	-20050628AAB
51	WFMY-TV	GREENSBORO NC	104.9	PLN	DTVPLN	-DTVP1801
50	WOAY-DT	OAK HILL WV	302.0	APP	USERRECORD	-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	WAXN-TV	KANNAPOLIS NC	DTVPLN	-DTVP1769

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WRAZ	RALEIGH NC	204.3	CP MOD	BMPCDT	-20040329AKW
49	WRAZ	RALEIGH NC	204.3	PLN	DTVPLN	-DTVP1745
49	WLFG	GRUNDY VA	212.5	CP	BPCDT	-19991029AGK
49	WLFG	GRUNDY VA	212.5	PLN	DTVPLN	-DTVP1754
50	WCBD-TV	CHARLESTON SC	274.9	CP MOD	BMPCDT	-20040419ABK
50	WCBD-TV	CHARLESTON SC	274.9	PLN	DTVPLN	-DTVP1778
50	WGNT	PORTSMOUTH VA	420.2	LIC	BLCDT	-20020718AAK
50	WGNT	PORTSMOUTH VA	420.2	PLN	DTVPLN	-DTVP1780
50	WOAY-TV	OAK HILL WV	302.0	PLN	DTVPLN	-DTVP1784
51	WFXG	AUGUSTA GA	228.9	CP MOD	BMPCDT	-20080219ATL
51	WFXG	AUGUSTA GA	228.9	PLN	DTVPLN	-DTVP1791
51	WFMY-TV	GREENSBORO NC	104.9	LIC	BLCDT	-20050628AAB
51	WFMY-TV	GREENSBORO NC	104.9	PLN	DTVPLN	-DTVP1801
50	WOAY-DT	OAK HILL WV	302.0	APP	USERRECORD	-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 10

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	-DTVP1748
49	WTAP-TV	PARKERSBURG WV	192.7	LIC	BLCDT	-20040423ABG
49	WTAP-TV	PARKERSBURG WV	192.7	PLN	DTVPLN	-DTVP1757
50	WDTN	DAYTON OH	268.8	LIC	BLCDT	-20050629AAL
50	WDTN	DAYTON OH	268.8	PLN	DTVPLN	-DTVP1773
50	WQLN	ERIE PA	168.5	LIC	BLEDT	-20060601BCQ
50	WQLN	ERIE PA	168.5	PLN	DTVPLN	-DTVP1775
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	-DTVP1776
50	WOAY-TV	OAK HILL WV	349.9	PLN	DTVPLN	-DTVP1784
51	WTAE-TV	PITTSBURGH PA	178.2	LIC	BLCDT	-20041014AEY
51	WTAE-TV	PITTSBURGH PA	178.2	PLN	DTVPLN	-DTVP1809
50	WOAY-DT	OAK HILL WV	349.9	APP	USERRECORD	-01

Total scenarios = 12

Result key: 33
Scenario 1 Affected station 10

Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 9 of 17)

```
Before Analysis

Results for: 50A OH AKRON                BLEDT     20040928AQT  LIC
   HAAT  305.0 m, ATV ERP  180.0 kW
                                    POPULATION   AREA (sq km)
   within Noise Limited Contour     3915932      20644.2
   not affected by terrain losses   3902037      20395.2
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      216443       1281.2
   lost to ATV IX only               216443       1281.2
   lost to all IX                    216443       1281.2

 Potential Interfering Stations Included in above Scenario     1

50A OH DAYTON               BLCDT     20050629AAL  LIC
50A PA ERIE                 BLEDT     20060601BCQ  LIC
50A PA GREENSBURG           BLCDT     20030409ABC  LIC
50A WV OAK HILL             DTVPLN    DTVP1784     PLN

After Analysis

Results for: 50A OH AKRON                BLEDT     20040928AQT  LIC
   HAAT  305.0 m, ATV ERP  180.0 kW
                                    POPULATION   AREA (sq km)
   within Noise Limited Contour     3915932      20644.2
   not affected by terrain losses   3902037      20395.2
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      216443       1281.2
   lost to ATV IX only               216443       1281.2
   lost to all IX                    216443       1281.2

 Potential Interfering Stations Included in above Scenario     1

50A OH DAYTON               BLCDT     20050629AAL  LIC
50A PA ERIE                 BLEDT     20060601BCQ  LIC
50A PA GREENSBURG           BLCDT     20030409ABC  LIC
50A WV OAK HILL             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.
   50      WEAO       AKRON OH                DTVPLN    -DTVP1772

     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    -DTVP1748
 49   WTAP-TV  PARKERSBURG WV          192.7  LIC    BLCDT     -20040423ABG
 49   WTAP-TV  PARKERSBURG WV          192.7  PLN    DTVPLN    -DTVP1757
 50   WDTN     DAYTON OH               268.8  LIC    BLCDT     -20050629AAL
 50   WDTN     DAYTON OH               268.8  PLN    DTVPLN    -DTVP1773
 50   WQLN     ERIE PA                 168.5  LIC    BLEDT     -20060601BCQ
```

Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 10 of 17)

```
 50   WQLN     ERIE PA                 168.5  PLN    DTVPLN    -DTVP1775
 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    -DTVP1776
 50   WOAY-TV  OAK HILL WV             349.9  PLN    DTVPLN    -DTVP1784
 51   WTAE-TV  PITTSBURGH PA           178.2  LIC    BLCDT     -20041014AEY
 51   WTAE-TV  PITTSBURGH PA           178.2  PLN    DTVPLN    -DTVP1809
 50   WOAY-DT  OAK HILL WV             349.9  APP    USERRECORD-01

 Total scenarios =   12


Result key:       45
Scenario        1  Affected station       11
Before Analysis

Results for: 50A OH AKRON                DTVPLN    DTVP1772     PLN
   HAAT  305.0 m, ATV ERP  180.0 kW
                                    POPULATION   AREA (sq km)
   within Noise Limited Contour     3915932      20644.2
   not affected by terrain losses   3902037      20395.2
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      216443       1281.2
   lost to ATV IX only               216443       1281.2
   lost to all IX                    216443       1281.2

 Potential Interfering Stations Included in above Scenario     1

50A OH DAYTON               BLCDT     20050629AAL  LIC
50A PA ERIE                 BLEDT     20060601BCQ  LIC
50A PA GREENSBURG           BLCDT     20030409ABC  LIC
50A WV OAK HILL             DTVPLN    DTVP1784     PLN

After Analysis

Results for: 50A OH AKRON                DTVPLN    DTVP1772     PLN
   HAAT  305.0 m, ATV ERP  180.0 kW
                                    POPULATION   AREA (sq km)
   within Noise Limited Contour     3915932      20644.2
   not affected by terrain losses   3902037      20395.2
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      216443       1281.2
   lost to ATV IX only               216443       1281.2
   lost to all IX                    216443       1281.2

 Potential Interfering Stations Included in above Scenario     1

50A OH DAYTON               BLCDT     20050629AAL  LIC
50A PA ERIE                 BLEDT     20060601BCQ  LIC
50A PA GREENSBURG           BLCDT     20030409ABC  LIC
50A WV OAK HILL             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  12
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Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 11 of 17)

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	WDTN	DAYTON OH	BLCDT -20050629AAL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WDRB	LOUISVILLE KY	205.1	CP	BPCDT	-20051130ACJ
49	WDRB	LOUISVILLE KY	205.1	PLN	DTVPLN	-DTVP1740
50	WXFT-TV	AURORA IL	372.1	CP	BPCDT	-20080425ABK
50	WXFT-TV	AURORA IL	372.1	PLN	DTVPLN	-DTVP1765
50	WEIU-TV	CHARLESTON IL	347.1	CP MOD	BMPEDT	-20050510ACW
50	WEIU-TV	CHARLESTON IL	347.1	PLN	DTVPLN	-DTVP1766
50	WEIU-TV	CHARLESTON IL	347.1	LIC	BLEDT	-20060504AAW
50	WEAO	AKRON OH	268.8	LIC	BLEDT	-20040928AQT
50	WEAO	AKRON OH	268.8	PLN	DTVPLN	-DTVP1772
50	WPCB-TV	GREENSBURG PA	387.9	LIC	BLCDT	-20030409ABC
50	WPCB-TV	GREENSBURG PA	387.9	PLN	DTVPLN	-DTVP1776
50	WOAY-TV	OAK HILL WV	332.5	PLN	DTVPLN	-DTVP1784
51	WMYO	SALEM IN	205.1	CP MOD	BMPCDT	-20080320AAR
51	WMYO	SALEM IN	205.1	PLN	DTVPLN	-DTVP1796
51	WKEF	DAYTON OH	0.7	LIC	BLCDT	-20050620AAP
51	WKEF	DAYTON OH	0.7	PLN	DTVPLN	-DTVP1806
50	WOAY-DT	OAK HILL WV	332.5	APP	USERRECORD	-01

Total scenarios = 48

Result key: 57
Scenario 1 Affected station 12
Before Analysis

Results for: 50A OH DAYTON BLCDT 20050629AAL LIC
HAAT 323.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3516813	29726.8
not affected by terrain losses	3507222	29406.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9478	208.2
lost to ATV IX only	9478	208.2
lost to all IX	9478	208.2

Potential Interfering Stations Included in above Scenario 1

50A IL AURORA	BPCDT	20080425ABK	CP
50A IL CHARLESTON	BMPEDT	20050510ACW	CP
50A OH AKRON	BLEDT	20040928AQT	LIC
50A PA GREENSBURG	BLCDT	20030409ABC	LIC
51A OH DAYTON	BLCDT	20050620AAP	LIC
50A WV OAK HILL	DTVPLN	DTVP1784	PLN

After Analysis

Results for: 50A OH DAYTON BLCDT 20050629AAL LIC
HAAT 323.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3516813	29726.8
not affected by terrain losses	3507222	29406.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9478	208.2
lost to ATV IX only	9478	208.2
lost to all IX	9478	208.2

Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 12 of 17)

Potential Interfering Stations Included in above Scenario 1

50A IL AURORA	BPCDT	20080425ABK	CP
50A IL CHARLESTON	BMPEDT	20050510ACW	CP
50A OH AKRON	BLEDT	20040928AQT	LIC
50A PA GREENSBURG	BLCDT	20030409ABC	LIC
51A OH DAYTON	BLCDT	20050620AAP	LIC
50A WV OAK HILL	USERRECORD	01	APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

##

Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	WDTN	DAYTON OH	DTVPLN -DTVP1773

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WDRB	LOUISVILLE KY	205.1	CP	BPCDT	-20051130ACJ
49	WDRB	LOUISVILLE KY	205.1	PLN	DTVPLN	-DTVP1740
50	WXFT-TV	AURORA IL	372.1	CP	BPCDT	-20080425ABK
50	WXFT-TV	AURORA IL	372.1	PLN	DTVPLN	-DTVP1765
50	WEIU-TV	CHARLESTON IL	347.1	CP MOD	BMPEDT	-20050510ACW
50	WEIU-TV	CHARLESTON IL	347.1	PLN	DTVPLN	-DTVP1766
50	WEIU-TV	CHARLESTON IL	347.1	LIC	BLEDT	-20060504AAW
50	WEAO	AKRON OH	268.8	LIC	BLEDT	-20040928AQT
50	WEAO	AKRON OH	268.8	PLN	DTVPLN	-DTVP1772
50	WPCB-TV	GREENSBURG PA	387.9	LIC	BLCDT	-20030409ABC
50	WPCB-TV	GREENSBURG PA	387.9	PLN	DTVPLN	-DTVP1776
50	WOAY-TV	OAK HILL WV	332.5	PLN	DTVPLN	-DTVP1784
51	WMYO	SALEM IN	205.1	CP MOD	BMPCDT	-20080320AAR
51	WMYO	SALEM IN	205.1	PLN	DTVPLN	-DTVP1796
51	WKEF	DAYTON OH	0.7	LIC	BLCDT	-20050620AAP
51	WKEF	DAYTON OH	0.7	PLN	DTVPLN	-DTVP1806
50	WOAY-DT	OAK HILL WV	332.5	APP	USERRECORD	-01

Total scenarios = 48

Result key: 105
Scenario 1 Affected station 13
Before Analysis

Results for: 50A OH DAYTON DTVPLN DTVP1773 PLN
HAAT 323.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3516813	29726.8
not affected by terrain losses	3507222	29406.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9478	208.2
lost to ATV IX only	9478	208.2
lost to all IX	9478	208.2

Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 13 of 17)

```
 Potential Interfering Stations Included in above Scenario     1

50A IL AURORA               BPCDT     20080425ABK  CP
50A IL CHARLESTON           BMPEDT    20050510ACW  CP
50A OH AKRON                BLEDT     20040928AQT  LIC
50A PA GREENSBURG           BLCDT     20030409ABC  LIC
51A OH DAYTON               BLCDT     20050620AAP  LIC
50A WV OAK HILL             DTVPLN    DTVP1784     PLN

After Analysis

Results for: 50A OH DAYTON              DTVPLN    DTVP1773     PLN
   HAAT  323.0 m, ATV ERP 1000.0 kW
                                    POPULATION   AREA (sq km)
   within Noise Limited Contour     3516813      29726.8
   not affected by terrain losses   3507222      29406.5
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV        9478        208.2
   lost to ATV IX only                 9478        208.2
   lost to all IX                      9478        208.2

 Potential Interfering Stations Included in above Scenario     1

50A IL AURORA               BPCDT     20080425ABK  CP
50A IL CHARLESTON           BMPEDT    20050510ACW  CP
50A OH AKRON                BLEDT     20040928AQT  LIC
50A PA GREENSBURG           BLCDT     20030409ABC  LIC
51A OH DAYTON               BLCDT     20050620AAP  LIC
50A WV OAK HILL             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  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    -DTVP1755
 49   WTAP-TV  PARKERSBURG WV            191.3  LIC    BLCDT     -20040423ABG
 49   WTAP-TV  PARKERSBURG WV            191.3  PLN    DTVPLN    -DTVP1757
 50   WDCW     WASHINGTON DC             284.3  PLN    DTVPLN    -DTVP1762
 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    -DTVP1772
 50   WDTN     DAYTON OH                 387.9  LIC    BLCDT     -20050629AAL
 50   WDTN     DAYTON OH                 387.9  PLN    DTVPLN    -DTVP1773
 50   WQLN     ERIE PA                   184.9  LIC    BLEDT     -20060601BCQ
 50   WQLN     ERIE PA                   184.9  PLN    DTVPLN    -DTVP1775
 50   WQLN     ERIE PA                   184.9  APP    BMPEDT    -20000412AAR
 50   WOAY-TV  OAK HILL WV               295.3  PLN    DTVPLN    -DTVP1784
 51   WTAE-TV  PITTSBURGH PA              12.6  LIC    BLCDT     -20041014AEY
```

Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 14 of 17)

```
 51   WTAE-TV  PITTSBURGH PA              12.6  PLN    DTVPLN    -DTVP1809
 50   WOAY-DT  OAK HILL WV               295.3  APP    USERRECORD-01

 Total scenarios =   12


Result key:      153
Scenario        1  Affected station       14
Before Analysis

Results for: 50A PA GREENSBURG           BLCDT     20030409ABC  LIC
   HAAT  264.0 m, ATV ERP  362.0 kW
                                    POPULATION   AREA (sq km)
   within Noise Limited Contour     2831860      19269.0
   not affected by terrain losses   2709362      17552.3
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       58494       1054.9
   lost to ATV IX only                58494       1054.9
   lost to all IX                     58494       1054.9

 Potential Interfering Stations Included in above Scenario     1

50A OH AKRON                BLEDT     20040928AQT  LIC
50A PA ERIE                 BLEDT     20060601BCQ  LIC
51A PA PITTSBURGH           BLCDT     20041014AEY  LIC
50A WV OAK HILL             DTVPLN    DTVP1784     PLN

After Analysis

Results for: 50A PA GREENSBURG           BLCDT     20030409ABC  LIC
   HAAT  264.0 m, ATV ERP  362.0 kW
                                    POPULATION   AREA (sq km)
   within Noise Limited Contour     2831860      19269.0
   not affected by terrain losses   2709362      17552.3
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       58494       1054.9
   lost to ATV IX only                58494       1054.9
   lost to all IX                     58494       1054.9

 Potential Interfering Stations Included in above Scenario     1

50A OH AKRON                BLEDT     20040928AQT  LIC
50A PA ERIE                 BLEDT     20060601BCQ  LIC
51A PA PITTSBURGH           BLCDT     20041014AEY  LIC
50A WV OAK HILL             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  15


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   50      WPCB-TV    GREENSBURG PA             DTVPLN    -DTVP1776

     Stations Potentially Affecting This Station
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Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 15 of 17)

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	-DTVP1755
49	WTAP-TV	PARKERSBURG WV	191.3	LIC	BLCDT	-20040423ABG
49	WTAP-TV	PARKERSBURG WV	191.3	PLN	DTVPLN	-DTVP1757
50	WDCW	WASHINGTON DC	284.3	PLN	DTVPLN	-DTVP1762
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	-DTVP1772
50	WDTN	DAYTON OH	387.9	LIC	BLCDT	-20050629AAL
50	WDTN	DAYTON OH	387.9	PLN	DTVPLN	-DTVP1773
50	WQLN	ERIE PA	184.9	LIC	BLEDT	-20060601BCQ
50	WQLN	ERIE PA	184.9	PLN	DTVPLN	-DTVP1775
50	WQLN	ERIE PA	184.9	APP	BMPEDT	-20000412AAR
50	WOAY-TV	OAK HILL WV	295.3	PLN	DTVPLN	-DTVP1784
51	WTAE-TV	PITTSBURGH PA	12.6	LIC	BLCDT	-20041014AEY
51	WTAE-TV	PITTSBURGH PA	12.6	PLN	DTVPLN	-DTVP1809
50	WOAY-DT	OAK HILL WV	295.3	APP	USERRECORD-01	

Total scenarios = 12

Result key: 165
Scenario 1 Affected station 15
Before Analysis

Results for: 50A PA GREENSBURG DTVPLN DTVP1776 PLN
HAAT 264.0 m, ATV ERP 362.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2831860	19269.0
not affected by terrain losses	2709362	17552.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	58494	1054.9
lost to ATV IX only	58494	1054.9
lost to all IX	58494	1054.9

Potential Interfering Stations Included in above Scenario 1

50A OH AKRON	BLEDT	20040928AQT	LIC
50A PA ERIE	BLEDT	20060601BCQ	LIC
51A PA PITTSBURGH	BLCDT	20041014AEY	LIC
50A WV OAK HILL	DTVPLN	DTVP1784	PLN

After Analysis

Results for: 50A PA GREENSBURG DTVPLN DTVP1776 PLN
HAAT 264.0 m, ATV ERP 362.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2831860	19269.0
not affected by terrain losses	2709362	17552.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	58494	1054.9
lost to ATV IX only	58494	1054.9
lost to all IX	58494	1054.9

Potential Interfering Stations Included in above Scenario 1

50A OH AKRON	BLEDT	20040928AQT	LIC
50A PA ERIE	BLEDT	20060601BCQ	LIC
51A PA PITTSBURGH	BLCDT	20041014AEY	LIC
50A WV OAK HILL	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

##

Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	WTLU-CA	LYNCHBURG VA	BLTTA	-20040812AAE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
46	WHTJ	CHARLOTTESVILLE VA	116.1	APP	BPEDT	-20080610AAP
46	WHTJ	CHARLOTTESVILLE VA	116.1	PLN	DTVPLN	-DTVP1661
46	WHTJ	CHARLOTTESVILLE VA	116.1	LIC	BLEDT	-20050819ADO
49	W49AP	ROANOKE VA	61.7	LIC	BLTTL	-19890504IE
50	WDCW	WASHINGTON DC	282.6	LIC	BLCT	-20030819ABE
50	WDCW	WASHINGTON DC	282.6	PLN	DTVPLN	-DTVP1762
50	WDCW	WASHINGTON DC	282.6	APP	BPCDT	-20080229ACH
50	960723KX	ASHLAND KY	368.5	APP	BPCT	-19960723KX
50	WAXN-TV	KANNAPOLIS NC	248.0	LIC	BLCDT	-20020426AAN
50	WAXN-TV	KANNAPOLIS NC	248.0	PLN	DTVPLN	-DTVP1769
50	WRAZ	RALEIGH NC	184.1	LIC	BLCT	-19950925KE
50	WPCB-TV	GREENSBURG PA	357.1	LIC	BLCDT	-20030409ABC
50	WPCB-TV	GREENSBURG PA	357.1	PLN	DTVPLN	-DTVP1776
50	W50CM	CHARLOTTESVILLE VA	116.1	LIC	BLTT	-20031106AJK
50	WGNT	PORTSMOUTH VA	260.0	LIC	BLCDT	-20020718AAK
50	WGNT	PORTSMOUTH VA	260.0	PLN	DTVPLN	-DTVP1780
50	W50BD	MOOREFIELD WV	202.2	LIC	BLTT	-19890920IL
50	WOAY-TV	OAK HILL WV	179.6	LIC	BLCDT	-20070426AAK
50	WOAY-TV	OAK HILL WV	179.6	PLN	DTVPLN	-DTVP1784
51	WVPT	STAUNTON VA	107.6	LIC	BLET	-222
50	WOAY-DT	OAK HILL WV	179.6	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	WOAY-DT	OAK HILL WV	USERRECORD-01	

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	-DTVP1754
49	WTAP-TV	PARKERSBURG WV	158.9	LIC	BLCDT	-20040423ABG
49	WTAP-TV	PARKERSBURG WV	158.9	PLN	DTVPLN	-DTVP1757
50	WDCW	WASHINGTON DC	375.9	PLN	DTVPLN	-DTVP1762
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	-DTVP1769
50	WEAO	AKRON OH	349.9	LIC	BLEDT	-20040928AQT

Table 1 WOAY-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 17 of 17)

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 50   WEAO     AKRON OH                  349.9  PLN    DTVPLN    -DTVP1772
 50   WDTN     DAYTON OH                 332.5  LIC    BLCDT     -20050629AAL
 50   WDTN     DAYTON OH                 332.5  PLN    DTVPLN    -DTVP1773
 50   WPCB-TV  GREENSBURG PA             295.3  LIC    BLCDT     -20030409ABC
 50   WPCB-TV  GREENSBURG PA             295.3  PLN    DTVPLN    -DTVP1776

 Total scenarios =   8

Result key:      184
Scenario        8  Affected station       17
Before Analysis

Results for: 50A WV OAK HILL             USERRECORD01           APP
   HAAT  236.0 m, ATV ERP 1000.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      683387      23328.7
   not affected by terrain losses    532850      19414.6
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV        2770        164.1
   lost to ATV IX only                 2770        164.1
   lost to all IX                      2770        164.1

 Potential Interfering Stations Included in above Scenario     8

49A VA GRUNDY               DTVPLN    DTVP1754     PLN
50A OH DAYTON               DTVPLN    DTVP1773     PLN
50A PA GREENSBURG           DTVPLN    DTVP1776     PLN

##########################################################################

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED
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SECTION III-D - DTV Engineering

Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.

Pre-Transition Certification Checklist: An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to change pre-transition facilities. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.

Post-Transition Expedited Processing. An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed within 45 days of the effective date of Section 73.616 of the rules adopted in the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91.

1.	The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:	
	(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	(●) Yes ( ) 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.	( ) Yes ( ) 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.	( ) Yes ( ) 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").	( ) Yes (●) No ( ) 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.	(●) Yes ( ) No ( ) 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.	(●) Yes ( ) 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.	(●) Yes ( ) 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.	(●) Yes ( ) 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.	(●) Yes ( ) 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 50 Analog TV, if any 4	
2.	Zone: (●) I ( ) II ( ) III	
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 37 Minutes 57 Seconds 26 (●) North ( ) South Longitude: Degrees 81 Minutes 9 Seconds 3 (●) West ( ) East	
4.	Antenna Structure Registration Number: 1053536 ☐ Not Applicable ☐ Notification filed with FAA	
5.	Antenna Location Site Elevation Above Mean Sea Level:	609.6 meters
6.	Overall Tower Height Above Ground Level:	218.8 meters
7.	Height of Radiation Center Above Ground Level:	211.1 meters
8.	Height of Radiation Center Above Average Terrain :	237.1 meters
9.	Maximum Effective Radiated Power (average power):	1000 kW
10.	Antenna Specifications:	

a. Manufacturer DIE Model TFU-28GTH-R O4

b. Electrical Beam Tilt:
0.75 degrees ☐ Not Applicable

c. Mechanical Beam Tilt:
degrees toward azimuth
degrees True ☑ Not Applicable
Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). [Exhibit 42]

d. Polorization:
◉ Horizontal ○ Circular ○ Elliptical

e. Directional Antenna Relative Field Values: ☑ 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? If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.	◉ Yes ○ No [Exhibit 44]
12.	If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if **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 6/16/2008
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).