

ENGINEERING EXHIBIT

“Maximization” Application to Modify Digital Television Station Construction Permit

prepared for

Commonwealth Public Broadcasting Corporation

WNVC-DT Fairfax, VA

Facility ID 9999

Ch. 24 160 kW 221 m

Commonwealth Public Broadcasting Corporation (“Commonwealth”) is the licensee of television station WNVC(TV), analog Channel 56 and digital Channel 57, Fairfax, VA. A Construction Permit (“CP”, BPEDT-20080221ACD) authorizes construction of the WNVC-DT post-transition digital facility on Channel 24, as established in Appendix B of the Seventh Report and Order in MB Docket 87-278. *Commonwealth* herein seeks to modify the CP to expand the WNVC-DT post-transition Channel 24 digital facility. The instant application is intended to be filed by June 20, 2008 in response to the FCC’s lifting of the August 3, 2004 “freeze” concerning expansion in service area.¹

The current CP authorizes operation with an effective radiated power (“ERP”) of 45 kW at 221 meters antenna height above average terrain (“HAAT”), with a nondirectional antenna. An increase in ERP to 160 kW is proposed herein. No other changes are proposed.

The proposed antenna system is a horizontally polarized Dielectric model TFU-26GTH-R 04 and will be top-mounted on the existing WNVC antenna supporting structure, having FCC Antenna Structure Registration number 1017638. The Channel 24 antenna will replace the existing analog Channel 56 transmitting antenna. No change to the overall structure height will result from this proposal.

¹Public Notice “*Commission Lifts the Freeze On the Filing of Maximization Applications and Petitions for Digital Channel Substitutions, Effective Immediately*” DA 08-1213, released May 30, 2008.

A map is supplied as **Figure 1**, which depicts the standard predicted coverage contours. This map includes the boundaries of Fairfax, WNVC-DT's principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 48 dBμ contour.

The proposed WNVC-DT facility's predicted service population provides a 109.9 percent match of the Appendix B facility, as detailed in the table below.

Post-Transition Population Summary		
Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	5,868,928	6,456,923
Not affected by terrain losses	5,843,049	6,431,104
Lost to all interference	4,063	15,835
Net DTV Service	5,838,986	6,415,269
Match of Appendix B	---	109.87%

A detailed interference study per OET Bulletin 69² shows that the proposal complies with the 0.5 percent limit of new interference caused to the Appendix B facilities and current post-transition authorizations of pertinent nearby stations. The interference study output report is provided as **Table 1**. Protection requirements towards authorized Class A stations are also satisfied.

The nearest FCC monitoring station is 47.5 km distant at Laurel, MD. Using the FCC propagation curves, the proposed F(50,90) signal level at the monitoring station is 1.7 mV/m, which is well below the 10 mV/m threshold of §73.1030(c) for further analysis. 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 WNVC-DT transmitter site, based on information contained within the Commission's database. The site location is beyond the border areas requiring international coordination.

²FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). The implementation of OET-69 for this study followed the guidelines of OET-69 as specified therein. A standard cell size of 2 km was employed. Comparisons of various results of this computer program (run on a Sun Sparc processor) to the Commission's implementation of OET-69 show excellent correlation.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposed transmitting antenna will be installed on an existing antenna support structure in place of the existing analog transmitting antenna. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. No change in structure height is proposed, thus no change in current structure marking and lighting requirements is anticipated. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and considering 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 $1.4 \mu\text{W}/\text{cm}^2$, which is 0.4 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding 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 5, 2008

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List of Attachments

Figure 1	Proposed Coverage Contours
Table 1	OET Bulletin 69 Interference Study
Form 340	Saved Version of Engineering Sections from FCC Form at Time of Upload

This material was entered June 5, 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.



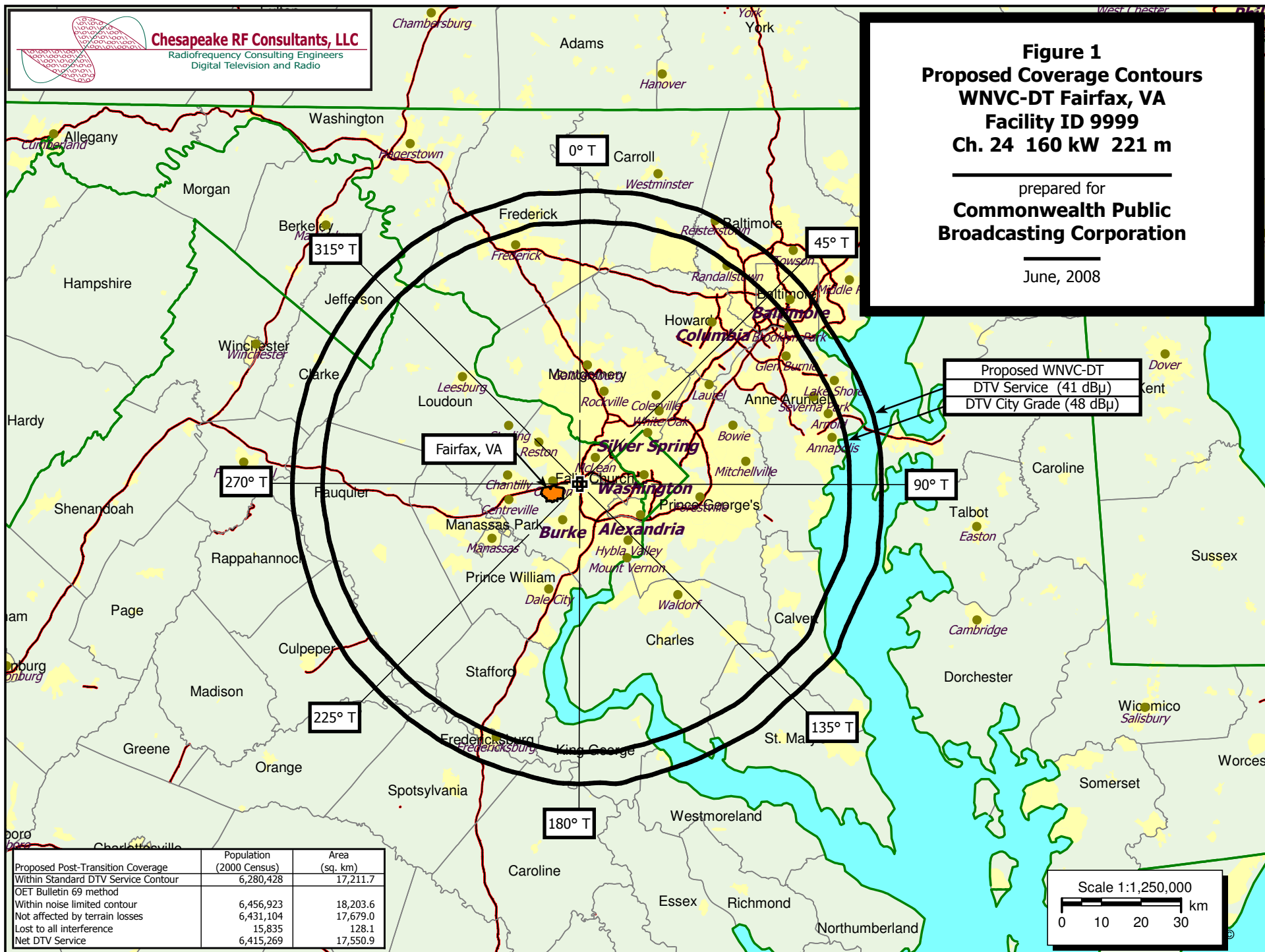
Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 1
Proposed Coverage Contours
WNVC-DT Fairfax, VA
Facility ID 9999
Ch. 24 160 kW 221 m

prepared for
Commonwealth Public
Broadcasting Corporation

June, 2008

Proposed WNVC-DT
DTV Service (41 dBu)
DTV City Grade (48 dBu)



Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	6,280,428	17,211.7
OET Bulletin 69 method		
Within noise limited contour	6,456,923	18,203.6
Not affected by terrain losses	6,431,104	17,679.0
Lost to all interference	15,835	128.1
Net DTV Service	6,415,269	17,550.9

Scale 1:1,250,000
0 10 20 30 km

Table 1 WNVC-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 1 of 22)

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

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-04-2008 Time: 22:32:39

Record Selected for Analysis

WNVC-DT USERRECORD-01 FAIRFAX VA US
Channel 24 ERP 160. kW HAAT 221. m RCAMSL 00311 m
Latitude 038-52-28 Longitude 0077-13-24
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	160.000	214.4	74.1
45.0	160.000	230.8	75.3
90.0	160.000	245.4	76.4
135.0	160.000	239.6	76.0
180.0	160.000	239.1	75.9
225.0	160.000	200.0	73.0
270.0	160.000	194.5	72.6
315.0	160.000	207.7	73.6

Evaluation toward Class A Stations

Contour overlap to Class A station
WAZH-CA 24 HARRISONBURG VA BLTTL 19960823JC

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Table 1 WNVC-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 2 of 22)

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
24	WNVC-DT	FAIRFAX VA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	WMJF-LP	TOWSON MD	78.6	LIC	BLTTA	-20050909ADB
17	WXOB-LP	RICHMOND VA	142.4	CP	BPTTA	-20030818AAO
17	WXOB-LP	RICHMOND VA	142.4	LIC	BLTTA	-20020809AAN
23	WLYH-TV	LANCASTER PA	167.4	LIC	BLCDT	-20040922AAC
23	WLYH-TV	LANCASTER PA	167.4	PLN	DTVPLN	-DTVP0859
24	WPSJ-LP	HAMMONTON, ETC. NJ	225.6	LIC	BLTTA	-20060720ADQ
24	WNYE-TV	NEW YORK NY	346.5	CP MOD	BMPEDT	-20070124AAX
24	WNYE-TV	NEW YORK NY	346.5	PLN	DTVPLN	-DTVP0895
24	WATM-TV	ALTOONA PA	215.3	LIC	BLCDT	-20050603ACF
24	WATM-TV	ALTOONA PA	215.3	PLN	DTVPLN	-DTVP0899
24	W24DB	CLARKS SUMMIT PA	311.7	LIC	BLTTA	-20041202ADB
24	W24BB	EAST STROUDSBURG PA	280.5	LIC	BLTTL	-19911219JM
24	WJET-TV	ERIE PA	426.3	PLN	DTVPLN	-DTVP0900
24	WDRL-TV	DANVILLE VA	288.1	PLN	DTVPLN	-DTVP0908
24	WDRL-TV	DANVILLE VA	292.0	APP	BPCDT	-20080317AIL
24	WAZH-CA	HARRISONBURG VA	136.9	LIC	BLTTL	-19960823JC
25	WTVE	READING PA	208.2	CP	BPCDT	-20040518AAZ
25	WTVE	READING PA	208.2	PLN	DTVPLN	-DTVP0935
25	WTVE	READING PA	199.8	LIC	BLCDT	-20040323ATZ
25	WTVR-TV	RICHMOND VA	154.9	LIC	BLCDT	-20021204ABA
25	WTVR-TV	RICHMOND VA	154.9	PLN	DTVPLN	-DTVP0939
28	WAZF-CA	WINCHESTER/FRONT ROY VA	89.9	LIC	BLTTL	-19940422IK

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	WMJF-LP	TOWSON MD	BLTTA	-20050909ADB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WLYH-TV	LANCASTER PA	97.1	LIC	BLMCT	-20041102AFK
15	WFDC-TV	ARLINGTON VA	65.1	LIC	BLCDT	-20070215AAB
15	WFDC-TV	ARLINGTON VA	65.1	PLN	DTVPLN	-DTVP0554
16	WBOC-TV	SALISBURY MD	129.5	LIC	BLCT	-20000918ABE
16	WQEX	PITTSBURGH PA	309.0	LIC	BLCT	-20060817ABY
16	WNEP-TV	SCRANTON PA	208.2	LIC	BLCT	-2623
16	WNEP-TV	SCRANTON PA	208.3	APP	BSTA	-20080116AAS
16	WNEP-TV	SCRANTON PA	208.3	APP	BSTA	-20080402ABN
16	WVAW-LP	CHARLOTTESVILLE VA	225.9	LIC	BLTTL	-20040902ABJ
16	WHRO-TV	HAMPTON-NORFOLK VA	287.7	LIC	BLEDT	-20020604AAB
16	WHRO-TV	HAMPTON-NORFOLK VA	287.7	PLN	DTVPLN	-DTVP0588
16	WHRO-TV	HAMPTON-NORFOLK VA	287.7	CP MOD	BMPEDT	-20000428ADG
23	WLYH-TV	LANCASTER PA	97.1	LIC	BLCDT	-20040922AAC
23	WLYH-TV	LANCASTER PA	97.1	PLN	DTVPLN	-DTVP0859
24	WNVC	FAIRFAX VA	78.6	CP	BPEDT	-20080221ACD

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 3 of 22)

24	WNVC	FAIRFAX VA	78.6	PLN	DTVPLN	-DTVP0909
30	WGB-TV	RED LION PA	56.6	LIC	BLCDT	-20050615AAB
30	WGB-TV	RED LION PA	56.6	PLN	DTVPLN	-DTVP1119
30	WNV	GOLDVEIN VA	111.5	LIC	BLEDT	-20031230AAR
30	WNV	GOLDVEIN VA	111.5	PLN	DTVPLN	-DTVP1125
31	WPPX	WILMINGTON DE	137.5	LIC	BLCDT	-20031203AFL
31	WPPX	WILMINGTON DE	137.5	PLN	DTVPLN	-DTVP1134
31	WVPB	HAGERSTOWN, MD	120.2	LIC	BLET	-19960828KE
24	WNVC-DT	FAIRFAX VA	78.6	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.	
17	WXOB-LP	RICHMOND VA	BPTTA		-20030818AAO	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.	
15	WHRO-TV	HAMPTON-NORFOLK VA	126.7	LIC	BLET	-19980608KE
16	WHRO-TV	HAMPTON-NORFOLK VA	126.7	LIC	BLEDT	-20020604AAB
16	WHRO-TV	HAMPTON-NORFOLK VA	126.7	PLN	DTVPLN	-DTVP0588
16	WHRO-TV	HAMPTON-NORFOLK VA	126.7	CP MOD	BMPEDT	-20000428ADG
17	WNCN	GOLDSBORO NC	233.7	LIC	BLCT	-20001023ADX
17	WNCN	GOLDSBORO NC	233.7	PLN	DTVPLN	-DTVP0606
17	WNCN	GOLDSBORO NC	233.7	APP	BFRCT	-20050815AAK
17	WNCN	GOLDSBORO NC	233.7	CP	BPCDT	-20080410AAU
17	WPHL-TV	PHILADELPHIA PA	334.0	LIC	BLCT	-2611
17	WPHL-TV	PHILADELPHIA PA	334.2	PLN	DTVPLN	-DTVP0616
17	WPHL-TV	PHILADELPHIA PA	334.1	CP	BPCDT	-20080307ABI
17	WFXR-TV	ROANOKE VA	237.6	CP MOD	BMPEDT	-20051208AAY
17	WFXR-TV	ROANOKE VA	237.6	PLN	DTVPLN	-DTVP0623
17	W17AL	MATHIAS, ETC. WV	180.5	LIC	BLTT	-19871117IB
19	WCAV	CHARLOTTESVILLE VA	94.2	CP	BPCDT	-20080403ACY
19	WCAV	CHARLOTTESVILLE VA	94.2	PLN	DTVPLN	-DTVP0705
19	WCAV	CHARLOTTESVILLE VA	94.2	LIC	BLCT	-20040813AAJ
21	961001XL	VIRGINIA BEACH VA	125.2	APP	BPCT	-19961001XL
21	961001XY	VIRGINIA BEACH VA	140.3	APP	BPCT	-19961001XY
21	960724LE	VIRGINIA BEACH VA	126.7	APP	BPCT	-19960724LE
21	WHRE	VIRGINIA BEACH VA	126.7	LIC	BLCT	-20060329AGW
21	960404LP	VIRGINIA BEACH VA	143.7	APP	BPCT	-19960404LP
24	WNVC	FAIRFAX VA	142.4	CP	BPEDT	-20080221ACD
24	WNVC	FAIRFAX VA	142.4	PLN	DTVPLN	-DTVP0909
25	WTVR-TV	RICHMOND VA	13.6	LIC	BLCDT	-20021204ABA
25	WTVR-TV	RICHMOND VA	13.6	PLN	DTVPLN	-DTVP0939
31	WAVY-TV	PORTSMOUTH VA	125.2	LIC	BLCDT	-20010409ABP
31	WAVY-TV	PORTSMOUTH VA	125.2	PLN	DTVPLN	-DTVP1163
32	WVIR-TV	CHARLOTTESVILLE VA	94.2	LIC	BLCDT	-20040908AAE
32	WVIR-TV	CHARLOTTESVILLE VA	94.2	PLN	DTVPLN	-DTVP1201
24	WNVC-DT	FAIRFAX VA	142.4	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 4 of 22)

Analysis of Interference to Affected Station 3

Analysis of current record						
Channel	Call	City/State	Application		Ref. No.	
17	WXOB-LP	RICHMOND VA	BLTTA		-20020809AAN	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.	
16	WHRO-TV	HAMPTON-NORFOLK VA	126.7	LIC	BLEDT	-20020604AAB
16	WHRO-TV	HAMPTON-NORFOLK VA	126.7	PLN	DTVPLN	-DTVP0588
16	WHRO-TV	HAMPTON-NORFOLK VA	126.7	CP MOD	BMPEDT	-20000428ADG
17	WNCN	GOLDSBORO NC	233.7	LIC	BLCT	-20001023ADX
17	WNCN	GOLDSBORO NC	233.7	PLN	DTVPLN	-DTVP0606
17	WNCN	GOLDSBORO NC	233.7	APP	BFRCT	-20050815AAK
17	WNCN	GOLDSBORO NC	233.7	CP	BPCDT	-20080410AAU
17	WPHL-TV	PHILADELPHIA PA	334.0	LIC	BLCT	-2611
17	WPHL-TV	PHILADELPHIA PA	334.2	PLN	DTVPLN	-DTVP0616
17	WPHL-TV	PHILADELPHIA PA	334.1	CP	BPCDT	-20080307ABI
17	WFXR-TV	ROANOKE VA	237.6	CP MOD	BMPEDT	-20051208AAY
17	WFXR-TV	ROANOKE VA	237.6	PLN	DTVPLN	-DTVP0623
17	W17AL	MATHIAS, ETC. WV	180.5	LIC	BLTT	-19871117IB
19	WCAV	CHARLOTTESVILLE VA	94.2	CP	BPCDT	-20080403ACY
19	WCAV	CHARLOTTESVILLE VA	94.2	PLN	DTVPLN	-DTVP0705
24	WNVC	FAIRFAX VA	142.4	CP	BPEDT	-20080221ACD
24	WNVC	FAIRFAX VA	142.4	PLN	DTVPLN	-DTVP0909
25	WTVR-TV	RICHMOND VA	13.6	LIC	BLCDT	-20021204ABA
25	WTVR-TV	RICHMOND VA	13.6	PLN	DTVPLN	-DTVP0939
31	WAVY-TV	PORTSMOUTH VA	125.2	LIC	BLCDT	-20010409ABP
31	WAVY-TV	PORTSMOUTH VA	125.2	PLN	DTVPLN	-DTVP1163
32	WVIR-TV	CHARLOTTESVILLE VA	94.2	LIC	BLCDT	-20040908AAE
32	WVIR-TV	CHARLOTTESVILLE VA	94.2	PLN	DTVPLN	-DTVP1201
24	WNVC-DT	FAIRFAX VA	142.4	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 4

Analysis of current record						
Channel	Call	City/State	Application		Ref. No.	
23	WLYH-TV	LANCASTER PA	BLCDT		-20040922AAC	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.	
22	WNJS	CAMDEN NJ	150.2	LIC	BLEDT	-20070611AAY
22	WNJS	CAMDEN NJ	150.2	PLN	DTVPLN	-DTVP0816
23	WPXJ-TV	BATAVIA NY	319.8	APP	BPCDT	-20080311ACI
23	WPXJ-TV	BATAVIA NY	319.8	PLN	DTVPLN	-DTVP0855
23	WFTY-TV	SMITHTOWN NY	304.4	LIC	BLCDT	-20030113ABS
23	WFTY-TV	SMITHTOWN NY	304.4	PLN	DTVPLN	-DTVP0857
24	WNYE-TV	NEW YORK NY	216.4	CP MOD	BMPEDT	-20070124AAX
24	WNYE-TV	NEW YORK NY	216.4	PLN	DTVPLN	-DTVP0895
24	WATM-TV	ALTOONA PA	170.9	LIC	BLCDT	-20050603ACF

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 22)

24	WATM-TV	ALTOONA PA	170.9	PLN	DTVPLN	-DTVP0899
24	WNVC	FAIRFAX VA	167.4	PLN	DTVPLN	-DTVP0909
24	WNVC-DT	FAIRFAX VA	167.4	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.
23	WLYH-TV	LANCASTER PA	DTVPLN -DTVP0859

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	WNJS	CAMDEN NJ	150.2	LIC	BLEDT -20070611AAY
22	WNJS	CAMDEN NJ	150.2	PLN	DTVPLN -DTVP0816
23	WPXJ-TV	BATAVIA NY	319.8	APP	BPCDT -20080311ACI
23	WPXJ-TV	BATAVIA NY	319.8	PLN	DTVPLN -DTVP0855
23	WFTY-TV	SMITHTOWN NY	304.4	LIC	BLCDT -20030113ABS
23	WFTY-TV	SMITHTOWN NY	304.4	PLN	DTVPLN -DTVP0857
24	WNYE-TV	NEW YORK NY	216.4	CP MOD	BMPEDT -20070124AAX
24	WNYE-TV	NEW YORK NY	216.4	PLN	DTVPLN -DTVP0895
24	WATM-TV	ALTOONA PA	170.9	LIC	BLCDT -20050603ACF
24	WATM-TV	ALTOONA PA	170.9	PLN	DTVPLN -DTVP0899
24	WNVC	FAIRFAX VA	167.4	PLN	DTVPLN -DTVP0909
24	WNVC-DT	FAIRFAX VA	167.4	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.
24	WPSJ-LP	HAMMONTON, ETC. NJ	BLTTA -20060720ADQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WPHL-TV	PHILADELPHIA PA	48.5	LIC	BLCT -2611
17	WPHL-TV	PHILADELPHIA PA	48.3	PLN	DTVPLN -DTVP0616
17	WPHL-TV	PHILADELPHIA PA	48.5	CP	BPCDT -20080307ABI
22	WNJS	CAMDEN NJ	0.0	LIC	BLEDT -20070611AAY
22	WNJS	CAMDEN NJ	0.0	PLN	DTVPLN -DTVP0816
23	WNJS	CAMDEN NJ	0.0	APP	BSTA -20070511ACA
23	WNJS	CAMDEN NJ	0.0	LIC	BLET -20070611AAZ
24	WEDH	HARTFORD CT	284.9	APP	BSTA -20060817ABO
24	WEDH	HARTFORD CT	277.3	LIC	BLET -20070605ABP
24	WUTB	BALTIMORE MD	171.5	LIC	BLCT -19860103KG
24	WNYE-TV	NEW YORK NY	135.4	CP MOD	BMPEDT -20070124AAX
24	WNYE-TV	NEW YORK NY	135.4	PLN	DTVPLN -DTVP0895
24	WCNY-TV	SYRACUSE NY	373.0	LIC	BLET -20030411ABZ
24	WSTM-TV	SYRACUSE NY	373.0	PLN	DTVPLN -DTVP0896
24	WSTM-TV	SYRACUSE NY	373.0	CP	BPCDT -20080320ACI
24	WATM-TV	ALTOONA PA	319.8	LIC	BLCDT -20050603ACF
24	WATM-TV	ALTOONA PA	319.8	PLN	DTVPLN -DTVP0899

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 22)

24	W24BB	EAST STROUDSBURG PA	154.8	LIC	BLTTL	-19911219JM
24	W24CS	READING PA	113.6	LIC	BLTT	-20030321AAO
24	WNVC	FAIRFAX VA	225.6	CP	BPEDT	-20080221ACD
24	WNVC	FAIRFAX VA	225.6	PLN	DTVPLN	-DTVP0909
25	WTVE	READING PA	98.7	CP	BPCDT	-20040518AAZ
25	WTVE	READING PA	98.7	PLN	DTVPLN	-DTVP0935
25	WTVE	READING PA	113.6	LIC	BLCDT	-20040323ATZ
26	KYW-TV	PHILADELPHIA PA	48.8	CP	BPCDT	-19980408KE
26	KYW-TV	PHILADELPHIA PA	48.8	PLN	DTVPLN	-DTVP0974
27	WGTW-TV	BURLINGTON NJ	48.3	LIC	BLCDT	-20060105AAR
27	WGTW-TV	BURLINGTON NJ	48.3	PLN	DTVPLN	-DTVP1007
28	WNBC	NEW YORK NY	134.7	STA	BDSTA	-20041220ADE
28	WNBC	NEW YORK NY	130.1	PLN	DTVPLN	-DTVP1049
28	WNBC	NEW YORK NY	134.7	CP MOD	BMPEDT	-20080314ACO
31	WPPX	WILMINGTON DE	48.3	LIC	BLCDT	-20031203AFL
31	WPPX	WILMINGTON DE	48.3	PLN	DTVPLN	-DTVP1134
31	WPXN-TV	NEW YORK NY	130.1	PLN	DTVPLN	-DTVP1155
32	WPSG	PHILADELPHIA PA	48.3	LIC	BLCDT	-20021025AAS
32	WPSG	PHILADELPHIA PA	48.3	PLN	DTVPLN	-DTVP1192
38	WWOR-TV	SECAUCUS NJ	134.7	CP MOD	BMPEDT	-20040130AZR
38	WWOR-TV	SECAUCUS NJ	130.1	PLN	DTVPLN	-DTVP1373
39	WLVT-TV	ALLENTOWN PA	105.9	CP	BPEDT	-20080201AQV
39	WLVT-TV	ALLENTOWN PA	105.8	PLN	DTVPLN	-DTVP1413
39	WLVT-TV	ALLENTOWN PA	105.8	LIC	BMLET	-20041014AEU
24	WNVC-DT	FAIRFAX VA	225.6	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.
24	WNYE-TV	NEW YORK NY	BMPEDT -20070124AAX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
23	WFTY-TV	SMITHTOWN NY	88.2	LIC	BLCDT -20030113ABS
23	WFTY-TV	SMITHTOWN NY	88.2	PLN	DTVPLN -DTVP0857
23	WLYH-TV	LANCASTER PA	216.4	LIC	BLCDT -20040922AAC
23	WLYH-TV	LANCASTER PA	216.4	PLN	DTVPLN -DTVP0859
24	WSTM-TV	SYRACUSE NY	300.6	PLN	DTVPLN -DTVP0896
24	WSTM-TV	SYRACUSE NY	300.6	CP	BPCDT -20080320ACI
24	WATM-TV	ALTOONA PA	376.3	LIC	BLCDT -20050603ACF
24	WATM-TV	ALTOONA PA	376.3	PLN	DTVPLN -DTVP0899
24	WNVC	FAIRFAX VA	346.5	PLN	DTVPLN -DTVP0909
24	WVTA	WINDSOR VT	323.8	CP MOD	BMPEDT -20060306BRA
24	WVTA	WINDSOR VT	323.8	PLN	DTVPLN -DTVP0910
25	WTVE	READING PA	151.8	CP	BPCDT -20040518AAZ
25	WTVE	READING PA	151.8	PLN	DTVPLN -DTVP0935
25	WTVE	READING PA	167.5	LIC	BLCDT -20040323ATZ
24	WNVC-DT	FAIRFAX VA	346.5	APP	USERRECORD-01

Total scenarios = 32

Result key: 1
Scenario 1 Affected station 7
Before Analysis

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 7 of 22)

Results for: 24A NY NEW YORK BMPEDT 20070124AAX CP
HAAT 310.0 m, ATV ERP 151.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	18623752	22164.0
not affected by terrain losses	18462641	21146.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	240669	286.6
lost to ATV IX only	240669	286.6
lost to all IX	240669	286.6

Potential Interfering Stations Included in above Scenario 1

23A NY SMITHTOWN	BLCDT	20030113ABS	LIC
24A NY SYRACUSE	DTVPLN	DTVP0896	PLN
24A PA ALTOONA	BLCDT	20050603ACF	LIC
24A VT WINDSOR	BMPEDT	20060306BRA	CP
25A PA READING	BPCDT	20040518AAZ	CP

After Analysis

Results for: 24A NY NEW YORK BMPEDT 20070124AAX CP
HAAT 310.0 m, ATV ERP 151.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	18623752	22164.0
not affected by terrain losses	18462641	21146.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	241850	290.7
lost to ATV IX only	241850	290.7
lost to all IX	241850	290.7

Potential Interfering Stations Included in above Scenario 1

23A NY SMITHTOWN	BLCDT	20030113ABS	LIC
24A NY SYRACUSE	DTVPLN	DTVP0896	PLN
24A PA ALTOONA	BLCDT	20050603ACF	LIC
24A VT WINDSOR	BMPEDT	20060306BRA	CP
25A PA READING	BPCDT	20040518AAZ	CP
24A VA FAIRFAX	USERRECORD01		APP

Percent new IX = 0.0065%

Worst case new IX 0.0065% Scenario 1

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
24	WNYE-TV	NEW YORK NY	DTVPLN	-DTVP0895

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
23	WFTY-TV	SMITHTOWN NY	88.2	LIC	BLCDT	-20030113ABS
23	WFTY-TV	SMITHTOWN NY	88.2	PLN	DTVPLN	-DTVP0857
23	WLYH-TV	LANCASTER PA	216.4	LIC	BLCDT	-20040922AAC
23	WLYH-TV	LANCASTER PA	216.4	PLN	DTVPLN	-DTVP0859
24	WSTM-TV	SYRACUSE NY	300.6	PLN	DTVPLN	-DTVP0896

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 8 of 22)

24	WSTM-TV	SYRACUSE NY	300.6	CP	BPCDT	-20080320ACI
24	WATM-TV	ALTOONA PA	376.3	LIC	BLCDT	-20050603ACF
24	WATM-TV	ALTOONA PA	376.3	PLN	DTVPLN	-DTVP0899
24	WNVC	FAIRFAX VA	346.5	PLN	DTVPLN	-DTVP0909
24	WVTA	WINDSOR VT	323.8	CP MOD	BMPEDT	-20060306BRA
24	WVTA	WINDSOR VT	323.8	PLN	DTVPLN	-DTVP0910
25	WTVE	READING PA	151.8	CP	BPCDT	-20040518AAZ
25	WTVE	READING PA	151.8	PLN	DTVPLN	-DTVP0935
25	WTVE	READING PA	167.5	LIC	BLCDT	-20040323ATZ
24	WNVC-DT	FAIRFAX VA	346.5	APP	USERRECORD-01	

Total scenarios = 32

Result key: 33
Scenario 1 Affected station 8
Before Analysis

Results for: 24A NY NEW YORK DTVPLN DTVP0895 PLN
HAAT 310.0 m, ATV ERP 151.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	18623752	22164.0
not affected by terrain losses	18462641	21146.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	240669	286.6
lost to ATV IX only	240669	286.6
lost to all IX	240669	286.6

Potential Interfering Stations Included in above Scenario 1

23A NY SMITHTOWN	BLCDT	20030113ABS	LIC
24A NY SYRACUSE	DTVPLN	DTVP0896	PLN
24A PA ALTOONA	BLCDT	20050603ACF	LIC
24A VT WINDSOR	BMPEDT	20060306BRA	CP
25A PA READING	BPCDT	20040518AAZ	CP

After Analysis

Results for: 24A NY NEW YORK DTVPLN DTVP0895 PLN
HAAT 310.0 m, ATV ERP 151.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	18623752	22164.0
not affected by terrain losses	18462641	21146.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	241850	290.7
lost to ATV IX only	241850	290.7
lost to all IX	241850	290.7

Potential Interfering Stations Included in above Scenario 1

23A NY SMITHTOWN	BLCDT	20030113ABS	LIC
24A NY SYRACUSE	DTVPLN	DTVP0896	PLN
24A PA ALTOONA	BLCDT	20050603ACF	LIC
24A VT WINDSOR	BMPEDT	20060306BRA	CP
25A PA READING	BPCDT	20040518AAZ	CP
24A VA FAIRFAX	USERRECORD01		APP

Percent new IX = 0.0065%

Worst case new IX 0.0065% Scenario 1

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Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 9 of 22)

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
24	WATM-TV	ALTOONA PA	BLCDDT	-20050603ACF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
23	WLYH-TV	LANCASTER PA	170.9	LIC	BLCDDT	-20040922AAC
23	WLYH-TV	LANCASTER PA	170.9	PLN	DTVPLN	-DTVP0859
24	WNYE-TV	NEW YORK NY	376.3	CP MOD	BMPEDT	-20070124AAX
24	WNYE-TV	NEW YORK NY	376.3	PLN	DTVPLN	-DTVP0895
24	WSTM-TV	SYRACUSE NY	327.0	PLN	DTVPLN	-DTVP0896
24	WSTM-TV	SYRACUSE NY	327.0	CP	BPCDDT	-20080320ACI
24	WSFJ-TV	NEWARK OH	364.3	LIC	BLCDDT	-20060620ABC
24	WSFJ-TV	NEWARK OH	364.3	PLN	DTVPLN	-DTVP0897
24	WJET-TV	ERIE PA	212.6	PLN	DTVPLN	-DTVP0900
24	WDRL-TV	DANVILLE VA	403.9	PLN	DTVPLN	-DTVP0908
24	WDRL-TV	DANVILLE VA	407.4	APP	BPCDDT	-20080317AIL
24	WNVC	FAIRFAX VA	215.3	PLN	DTVPLN	-DTVP0909
25	KDKA-TV	PITTSBURGH PA	133.3	LIC	BLCDDT	-20041004ACS
25	KDKA-TV	PITTSBURGH PA	133.3	PLN	DTVPLN	-DTVP0934
25	WTVE	READING PA	216.5	LIC	BLCDDT	-20040323ATZ
24	WNVC-DT	FAIRFAX VA	215.3	APP	USERRECORD-01	

Total scenarios = 32

Result key: 65

Scenario 1 Affected station 9
Before Analysis

Results for: 24A PA ALTOONA BLCDDT 20050603ACF LIC

HAAT 311.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	923982	24246.7
not affected by terrain losses	763532	20168.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6062	356.2
lost to ATV IX only	6062	356.2
lost to all IX	6062	356.2

Potential Interfering Stations Included in above Scenario 1

23A PA LANCASTER	BLCDDT	20040922AAC	LIC
24A NY NEW YORK	BMPEDT	20070124AAX	CP
24A NY SYRACUSE	DTVPLN	DTVP0896	PLN
24A OH NEWARK	BLCDDT	20060620ABC	LIC
24A PA ERIE	DTVPLN	DTVP0900	PLN
25A PA PITTSBURGH	BLCDDT	20041004ACS	LIC
24A VA FAIRFAX	DTVPLN	DTVP0909	PLN

After Analysis

Results for: 24A PA ALTOONA BLCDDT 20050603ACF LIC

HAAT 311.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	923982	24246.7

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 10 of 22)

not affected by terrain losses	763532	20168.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6485	424.2
lost to ATV IX only	6485	424.2
lost to all IX	6485	424.2

Potential Interfering Stations Included in above Scenario 1

23A PA LANCASTER	BLCDDT	20040922AAC	LIC
24A NY NEW YORK	BMPEDT	20070124AAX	CP
24A NY SYRACUSE	DTVPLN	DTVP0896	PLN
24A OH NEWARK	BLCDDT	20060620ABC	LIC
24A PA ERIE	DTVPLN	DTVP0900	PLN
25A PA PITTSBURGH	BLCDDT	20041004ACS	LIC
24A VA FAIRFAX	USERRECORD01		APP

Percent new IX = 0.0558%

Worst case new IX 0.0558% Scenario 1

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
24	WATM-TV	ALTOONA PA	DTVPLN	-DTVP0899

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
23	WLYH-TV	LANCASTER PA	170.9	LIC	BLCDDT	-20040922AAC
23	WLYH-TV	LANCASTER PA	170.9	PLN	DTVPLN	-DTVP0859
24	WNYE-TV	NEW YORK NY	376.3	CP MOD	BMPEDT	-20070124AAX
24	WNYE-TV	NEW YORK NY	376.3	PLN	DTVPLN	-DTVP0895
24	WSTM-TV	SYRACUSE NY	327.0	PLN	DTVPLN	-DTVP0896
24	WSTM-TV	SYRACUSE NY	327.0	CP	BPCDDT	-20080320ACI
24	WSFJ-TV	NEWARK OH	364.3	LIC	BLCDDT	-20060620ABC
24	WSFJ-TV	NEWARK OH	364.3	PLN	DTVPLN	-DTVP0897
24	WJET-TV	ERIE PA	212.6	PLN	DTVPLN	-DTVP0900
24	WDRL-TV	DANVILLE VA	403.9	PLN	DTVPLN	-DTVP0908
24	WDRL-TV	DANVILLE VA	407.4	APP	BPCDDT	-20080317AIL
24	WNVC	FAIRFAX VA	215.3	PLN	DTVPLN	-DTVP0909
25	KDKA-TV	PITTSBURGH PA	133.3	LIC	BLCDDT	-20041004ACS
25	KDKA-TV	PITTSBURGH PA	133.3	PLN	DTVPLN	-DTVP0934
25	WTVE	READING PA	216.5	LIC	BLCDDT	-20040323ATZ
24	WNVC-DT	FAIRFAX VA	215.3	APP	USERRECORD-01	

Total scenarios = 32

Result key: 97

Scenario 1 Affected station 10
Before Analysis

Results for: 24A PA ALTOONA DTVPLN DTVP0899 PLN

HAAT 311.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	923982	24246.7
not affected by terrain losses	763532	20168.9

Table 1 WNVC-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 11 of 22)

lost to NTSC IX		0	0.0
lost to additional IX by ATV	6062	356.2	
lost to ATV IX only	6062	356.2	
lost to all IX	6062	356.2	
Potential Interfering Stations Included in above Scenario 1			
23A PA LANCASTER	BLC DT	20040922AAC	LIC
24A NY NEW YORK	BMP EDT	20070124AAX	CP
24A NY SYRACUSE	DTV PLN	DTVP0896	PLN
24A OH NEWARK	BLC DT	20060620ABC	LIC
24A PA ERIE	DTV PLN	DTVP0900	PLN
25A PA PITTSBURGH	BLC DT	20041004ACS	LIC
24A VA FAIRFAX	DTV PLN	DTVP0909	PLN
After Analysis			
Results for: 24A PA ALTOONA DTV PLN DTVP0899 PLN			
HAAT 311.0 m, ATV ERP 1000.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	923982	24246.7	
not affected by terrain losses	763532	20168.9	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	6485	424.2	
lost to ATV IX only	6485	424.2	
lost to all IX	6485	424.2	
Potential Interfering Stations Included in above Scenario 1			
23A PA LANCASTER	BLC DT	20040922AAC	LIC
24A NY NEW YORK	BMP EDT	20070124AAX	CP
24A NY SYRACUSE	DTV PLN	DTVP0896	PLN
24A OH NEWARK	BLC DT	20060620ABC	LIC
24A PA ERIE	DTV PLN	DTVP0900	PLN
25A PA PITTSBURGH	BLC DT	20041004ACS	LIC
24A VA FAIRFAX	USERRECORD01		APP
Percent new IX = 0.0558%			
Worst case new IX 0.0558% Scenario 1			
#####			
Analysis of Interference to Affected Station 11			
Analysis of current record			
Channel	Call	City/State	Application Ref. No.
24	W24DB	CLARKS SUMMIT PA	BLTTA -20041202ADB
Stations Potentially Affecting This Station			
Chan	Call	City/State	Dist(km) Status Application Ref. No.
20	WNYI	ITHACA NY	127.4 CP BPCDT -20080331AEE
20	WNYI	ITHACA NY	127.4 PLN DTVPLN -DTVP0737
24	WEDH	HARTFORD CT	245.9 APP BSTA -20060817ABO
24	WEDH	HARTFORD CT	242.7 LIC BLET -20070605ABP
24	WUTB	BALTIMORE MD	254.2 LIC BLCT -19860103KG
24	W59DG	ELMIRA NY	112.4 CP BPTT -20031212ADX
24	WNYE-TV	NEW YORK NY	164.4 CP MOD BMP EDT -20070124AAX
24	WNYE-TV	NEW YORK NY	164.4 PLN DTVPLN -DTVP0895

Table 1 WNVC-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 12 of 22)

24	WCNY-TV	SYRACUSE NY	170.8	LIC	BLET	-20030411ABZ
24	WSTM-TV	SYRACUSE NY	170.8	PLN	DTVPLN	-DTVP0896
24	WSTM-TV	SYRACUSE NY	170.8	CP	BPCDT	-20080320ACI
24	WATM-TV	ALTOONA PA	247.3	LIC	BLC DT	-20050603ACF
24	WATM-TV	ALTOONA PA	247.3	PLN	DTVPLN	-DTVP0899
24	W24BB	EAST STROUDSBURG PA	49.2	LIC	BLTTL	-19911219JM
24	WJET-TV	ERIE PA	366.1	LIC	BLCT	-19850319KG
24	WJET-TV	ERIE PA	366.1	PLN	DTVPLN	-DTVP0900
24	W24BL	POTTSVILLE, ETC. PA	93.1	LIC	BLTT	-19920218JP
24	WNYC	FAIRFAX VA	311.7	CP	BP EDT	-20080221ACD
24	WNYC	FAIRFAX VA	311.7	PLN	DTVPLN	-DTVP0909
24	WVTA	WINDSOR VT	348.9	CP MOD	BMP EDT	-20060306BRA
24	WVTA	WINDSOR VT	348.9	PLN	DTVPLN	-DTVP0910
24	WNPB-TV	MORGANTOWN WV	391.6	LIC	BLET	-19930824KG
25	WTVE	READING PA	122.8	CP	BPCDT	-20040518AAZ
25	WTVE	READING PA	122.8	PLN	DTVPLN	-DTVP0935
25	WTVE	READING PA	121.1	LIC	BLC DT	-20040323ATZ
32	WQPX	SCRANTON PA	0.3	LIC	BLC DT	-20060629AFR
32	WQPX	SCRANTON PA	0.3	PLN	DTVPLN	-DTVP1193
38	WSWB	SCRANTON PA	0.0	LIC	BLCT	-19870831KF
38	WSWB	SCRANTON PA	0.0	PLN	DTVPLN	-DTVP1378
38	WLVT-TV	ALLENTOWN PA	99.9	CP	BP EDT	-20080201AQV
39	WLVT-TV	ALLENTOWN PA	99.8	PLN	DTVPLN	-DTVP1413
39	WLVT-TV	ALLENTOWN PA	99.8	LIC	BMLET	-20041014AEU
24	WNVC-DT	FAIRFAX VA	311.7	APP	USERRECORD-01	
Proposal causes no interference						

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application Ref. No.
24	W24BB	EAST STROUDSBURG PA	BLTTL -19911219JM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km) Status Application Ref. No.
17	WPHL-TV	PHILADELPHIA PA	111.7 LIC BLCT -2611
17	WPHL-TV	PHILADELPHIA PA	111.8 PLN DTVPLN -DTVP0616
17	WPHL-TV	PHILADELPHIA PA	111.7 CP BPCDT -20080307ABI
21	WHP-TV	HARRISBURG PA	137.7 CP BPCDT -20080303AKX
21	WHP-TV	HARRISBURG PA	137.7 PLN DTVPLN -DTVP0778
21	WHP-TV	HARRISBURG PA	137.7 LIC BLCT -2171
22	WYOU	SCRANTON PA	35.5 LIC BLCT -19861015KF
23	WLYH-TV	LANCASTER PA	117.3 LIC BLC DT -20040922AAC
23	WLYH-TV	LANCASTER PA	117.3 PLN DTVPLN -DTVP0859
24	WEDH	HARTFORD CT	239.9 APP BSTA -20060817ABO
24	WEDH	HARTFORD CT	235.3 LIC BLET -20070605ABP
24	WUTB	BALTIMORE MD	220.8 LIC BLCT -19860103KG
24	WPSJ-LP	HAMMONTON, ETC. NJ	154.8 LIC BLTTA -20060720ADQ
24	W59DG	ELMIRA NY	157.5 CP BPTT -20031212ADX
24	WNYE-TV	NEW YORK NY	131.0 CP MOD BMP EDT -20070124AAX
24	WNYE-TV	NEW YORK NY	131.0 PLN DTVPLN -DTVP0895
24	WCNY-TV	SYRACUSE NY	219.2 LIC BLET -20030411ABZ
24	WSTM-TV	SYRACUSE NY	219.2 PLN DTVPLN -DTVP0896
24	WSTM-TV	SYRACUSE NY	219.2 CP BPCDT -20080320ACI
24	WATM-TV	ALTOONA PA	252.5 LIC BLC DT -20050603ACF
24	WATM-TV	ALTOONA PA	252.5 PLN DTVPLN -DTVP0899
24	W24DB	CLARKS SUMMIT PA	49.2 LIC BLTTA -20041202ADB

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 13 of 22)

24	W24BL	POTTSVILLE, ETC. PA	70.3	LIC	BLTT	-19920218JP
24	W24CS	READING PA	81.8	LIC	BLTT	-20030321AAO
24	WNVC	FAIRFAX VA	280.5	CP	BPEDT	-20080221ACD
24	WNVC	FAIRFAX VA	280.5	PLN	DTVPLN	-DTVP0909
24	WVTA	WINDSOR VT	367.3	CP MOD	BMPEDT	-20060306BRA
24	WVTA	WINDSOR VT	367.2	PLN	DTVPLN	-DTVP0910
24	WNPB-TV	MORGANTOWN WV	389.7	LIC	BLET	-19930824KG
25	WNYE-TV	NEW YORK NY	131.3	LIC	BLET	-19920220KG
25	WNYE-TV	NEW YORK NY	131.3	APP	BLSTA	-20080107ACH
25	WNYE-TV	NEW YORK NY	131.3	APP	BLSTA	-20080107ACT
25	WTVE	READING PA	79.0	CP	BPCDT	-20040518AAZ
25	WTVE	READING PA	79.0	PLN	DTVPLN	-DTVP0935
25	WTVE	READING PA	81.8	LIC	BLCDT	-20040323ATZ
26	KYW-TV	PHILADELPHIA PA	111.6	CP	BPCDT	-19980408KE
26	KYW-TV	PHILADELPHIA PA	111.6	PLN	DTVPLN	-DTVP0974
27	WGTW-TV	BURLINGTON NJ	111.8	LIC	BLCDT	-20060105AAR
27	WGTW-TV	BURLINGTON NJ	111.8	PLN	DTVPLN	-DTVP1007
27	WTBY-TV	POUGHKEEPSIE NY	139.8	LIC	BMLCDT	-20061031ACG
27	WTBY-TV	POUGHKEEPSIE NY	139.8	PLN	DTVPLN	-DTVP1011
27	WHTM-TV	HARRISBURG PA	145.3	LIC	BLCT	-19960626KF
28	WNBC	NEW YORK NY	131.3	STA	BDSSTA	-20041220ADE
28	WNBC	NEW YORK NY	130.1	PLN	DTVPLN	-DTVP1049
28	WNBC	NEW YORK NY	131.3	CP MOD	BMPEDT	-20080314ACO
28	WBRE-TV	WILKES-BARRE PA	35.0	LIC	BLCT	-19891005KF
31	WPPX	WILMINGTON DE	111.8	LIC	BLCDT	-20031203AFL
31	WPPX	WILMINGTON DE	111.8	PLN	DTVPLN	-DTVP1134
31	WPXN-TV	NEW YORK NY	130.1	PLN	DTVPLN	-DTVP1155
32	WPSG	PHILADELPHIA PA	111.8	LIC	BLCDT	-20021025AAS
32	WPSG	PHILADELPHIA PA	111.8	PLN	DTVPLN	-DTVP1192
32	WQPX	SCRANTON PA	49.0	LIC	BLCDT	-20060629AFR
32	WQPX	SCRANTON PA	49.0	PLN	DTVPLN	-DTVP1193
32	WWOR-TV	SECAUCUS NJ	131.3	CP MOD	BMPEDT	-20040130AZR
38	WWOR-TV	SECAUCUS NJ	130.1	PLN	DTVPLN	-DTVP1373
38	WSWB	SCRANTON PA	49.2	LIC	BLCT	-19870831KF
38	WSWB	SCRANTON PA	49.2	PLN	DTVPLN	-DTVP1378
39	WLVT-TV	ALLENTOWN PA	51.7	CP	BPEDT	-20080201AQV
39	WLVT-TV	ALLENTOWN PA	51.5	PLN	DTVPLN	-DTVP1413
39	WLVT-TV	ALLENTOWN PA	51.5	LIC	BMLET	-20041014AEU
24	WNVC-DT	FAIRFAX VA	280.5	APP	USERRECORD-01	

Proposal causes no interference

Analysis of Interference to Affected Station 13

Analysis of current record						
Channel	Call	City/State	Application	Ref. No.		
24	WJET-TV	ERIE PA	DTVPLN	-DTVP0900		

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
23	WPXJ-TV	BATAVIA NY	193.3	APP	BPCDT	-20080311ACI
23	WPXJ-TV	BATAVIA NY	193.3	PLN	DTVPLN	-DTVP0855
23	WVPX	AKRON OH	166.2	PLN	DTVPLN	-DTVP0858
23	WVPX	AKRON OH	166.2	CP	BPCDT	-20070625ACA
24	WSTM-TV	SYRACUSE NY	339.0	PLN	DTVPLN	-DTVP0896
24	WSTM-TV	SYRACUSE NY	339.0	CP	BPCDT	-20080320ACI
24	WSFJ-TV	NEWARK OH	309.7	LIC	BLCDT	-20060620ABC
24	WSFJ-TV	NEWARK OH	309.7	PLN	DTVPLN	-DTVP0897

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 14 of 22)

24	WATM-TV	ALTOONA PA	212.6	LIC	BLCDT	-20050603ACF
24	WATM-TV	ALTOONA PA	212.6	PLN	DTVPLN	-DTVP0899
24	WNVC	FAIRFAX VA	426.3	PLN	DTVPLN	-DTVP0909
25	KDKA-TV	PITTSBURGH PA	171.9	LIC	BLCDT	-20041004ACS
25	KDKA-TV	PITTSBURGH PA	171.9	PLN	DTVPLN	-DTVP0934
24	WNVC-DT	FAIRFAX VA	426.3	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 14

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
24	WDRJ-TV	DANVILLE VA	DTVPLN	-DTVP0908

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WKPI-TV	PIKEVILLE KY	265.6	LIC	BLEDT	-20020313ABL
24	WKPI-TV	PIKEVILLE KY	265.6	PLN	DTVPLN	-DTVP0885
24	WATM-TV	ALTOONA PA	403.9	LIC	BLCDT	-20050603ACF
24	WATM-TV	ALTOONA PA	403.9	PLN	DTVPLN	-DTVP0899
24	WNVC	FAIRFAX VA	288.1	PLN	DTVPLN	-DTVP0909
25	WUNC-TV	CHAPEL HILL NC	134.3	CP	BPEDT	-20080401AEW
25	WUNC-TV	CHAPEL HILL NC	134.3	PLN	DTVPLN	-DTVP0930
25	WTVR-TV	RICHMOND VA	179.6	LIC	BLCDT	-20021204ABA
25	WTVR-TV	RICHMOND VA	179.6	PLN	DTVPLN	-DTVP0939
24	WNVC-DT	FAIRFAX VA	288.1	APP	USERRECORD-01	

Total scenarios = 4

Result key:	129		
Scenario	1	Affected station	14
Before Analysis			

Results for: 24A VA DANVILLE			
HAAT 332.0 m, ATV ERP 140.9 kW			
		POPULATION	AREA (sq km)
within Noise Limited Contour		994142	23298.5
not affected by terrain losses		917677	21234.3
lost to NTSC IX		0	0.0
lost to additional IX by ATV		531	36.1
lost to ATV IX only		531	36.1
lost to all IX		531	36.1

Potential Interfering Stations Included in above Scenario 1

24A KY	PIKEVILLE	BLEDT	20020313ABL	LIC
25A NC	CHAPEL HILL	BPEDT	20080401AEW	CP
24A VA	FAIRFAX	DTVPLN	DTVP0909	PLN

After Analysis

Results for: 24A VA DANVILLE			
HAAT 332.0 m, ATV ERP 140.9 kW			
		POPULATION	AREA (sq km)
within Noise Limited Contour		994142	23298.5
not affected by terrain losses		917677	21234.3

Table 1 WNVC-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 15 of 22)

lost to NTSC IX	0	0.0
lost to additional IX by ATV	533	44.1
lost to ATV IX only	533	44.1
lost to all IX	533	44.1
Potential Interfering Stations Included in above Scenario	1	
24A KY PIKEVILLE	BLEDT	20020313ABL LIC
25A NC CHAPEL HILL	BPEDT	20080401AEW CP
24A VA FAIRFAX	USERRECORD01	APP

Percent new IX = 0.0002%

Worst case new IX 0.0002% Scenario 1

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application Ref. No.
24	WDRL-TV	DANVILLE VA	BPCDT -20080317AIL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	WKPI-TV	PIKEVILLE KY	263.4	LIC	BLEDT -20020313ABL
24	WKPI-TV	PIKEVILLE KY	263.4	PLN	DTVPLN -DTVP0885
24	WATM-TV	ALTOONA PA	407.4	LIC	BLCDT -20050603ACF
24	WATM-TV	ALTOONA PA	407.4	PLN	DTVPLN -DTVP0899
24	WNVC	FAIRFAX VA	292.0	PLN	DTVPLN -DTVP0909
25	WUNC-TV	CHAPEL HILL NC	132.2	CP	BPEDT -20080401AEW
25	WUNC-TV	CHAPEL HILL NC	132.2	PLN	DTVPLN -DTVP0930
25	WTVR-TV	RICHMOND VA	183.0	LIC	BLCDT -20021204ABA
25	WTVR-TV	RICHMOND VA	183.0	PLN	DTVPLN -DTVP0939
24	WNVC-DT	FAIRFAX VA	292.0	APP	USERRECORD-01

Total scenarios = 2

Result key: 133
Scenario 1 Affected station 15
Before Analysis

Results for: 24A VA DANVILLE	BPCDT	20080317AIL	APP
HAAT 378.0 m, ATV ERP 141.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	871176	17714.3	
not affected by terrain losses	781306	16023.8	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	758	20.0	
lost to ATV IX only	758	20.0	
lost to all IX	758	20.0	

Potential Interfering Stations Included in above Scenario 1

24A KY PIKEVILLE	BLEDT	20020313ABL	LIC
24A VA FAIRFAX	DTVPLN	DTVP0909	PLN

After Analysis

Table 1 WNVC-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 16 of 22)

Results for: 24A VA DANVILLE	BPCDT	20080317AIL	APP
HAAT 378.0 m, ATV ERP 141.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	871176	17714.3	
not affected by terrain losses	781306	16023.8	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	795	28.0	
lost to ATV IX only	795	28.0	
lost to all IX	795	28.0	

Potential Interfering Stations Included in above Scenario 1

24A KY PIKEVILLE	BLEDT	20020313ABL	LIC
24A VA FAIRFAX	USERRECORD01		APP

Percent new IX = 0.0047%

Worst case new IX 0.0047% Scenario 1

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Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application Ref. No.
24	WAZH-CA	HARRISONBURG VA	BLTTL -19960823JC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
21	WVPY	FRONT ROYAL VA	42.5	LIC	BLEDT -20021220ADZ
21	WVPY	FRONT ROYAL VA	42.5	PLN	DTVPLN -DTVP0787
24	WKPI-TV	PIKEVILLE KY	369.4	LIC	BLEDT -20020313ABL
24	WKPI-TV	PIKEVILLE KY	369.4	PLN	DTVPLN -DTVP0885
24	WUTB	BALTIMORE MD	182.7	LIC	BLCT -19860103KG
24	WSFJ-TV	NEWARK OH	360.2	LIC	BLCDT -20060620ABC
24	WSFJ-TV	NEWARK OH	360.2	PLN	DTVPLN -DTVP0897
24	WATM-TV	ALTOONA PA	192.5	LIC	BLCDT -20050603ACF
24	WATM-TV	ALTOONA PA	192.5	PLN	DTVPLN -DTVP0899
24	WJET-TV	ERIE PA	369.3	LIC	BLCT -19850319KG
24	WJET-TV	ERIE PA	369.4	PLN	DTVPLN -DTVP0900
24	WDRL-TV	DANVILLE VA	268.0	APP	BPCT -20071204ADC
24	WDRL-TV	DANVILLE VA	212.7	PLN	DTVPLN -DTVP0908
24	WDRL-TV	DANVILLE VA	267.6	LIC	BLCT -19940818KF
24	WDRL-TV	DANVILLE VA	268.0	APP	BSTA -20071210ACM
24	WDRL-TV	DANVILLE VA	216.2	APP	BPCDT -20080317AIL
24	WNVC	FAIRFAX VA	136.9	CP	BPEDT -20080221ACD
24	WNVC	FAIRFAX VA	136.9	PLN	DTVPLN -DTVP0909
24	NEW	WOODSTOCK VA	22.3	APP	BNPTTL -20000831AOC
24	WNPB-TV	MORGANTOWN WV	124.2	LIC	BLET -19930824KG
25	WHAG-TV	HAGERSTOWN MD	114.9	CP	BPCT -20021203ACY
26	WHAG-TV	HAGERSTOWN MD	114.9	PLN	DTVPLN -DTVP0958
28	WFPT	FREDERICK MD	136.4	LIC	BLEDT -20050302AEG
28	WFPT	FREDERICK MD	136.4	PLN	DTVPLN -DTVP1041
32	WVIR-TV	CHARLOTTESVILLE VA	101.3	LIC	BLCDT -20040908AAE
32	WVIR-TV	CHARLOTTESVILLE VA	101.3	PLN	DTVPLN -DTVP1201
39	WJAL	HAGERSTOWN MD	135.3	CP MOD	BMPCDT -20080528ABT
39	WJAL	HAGERSTOWN MD	135.5	PLN	DTVPLN -DTVP1408
39	W39AD	CENT. ROCKINGHAM COUN VA	29.1	LIC	BLTT -19840131IG

Table 1 WNVC-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 17 of 22)

24 WNVC-DT FAIRFAX VA 136.9 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.
25	WTVE	READING PA	BPCDT -20040518AAZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	WNYE-TV	NEW YORK NY	151.8	CP MOD	BMPEDT -20070124AAX
24	WNYE-TV	NEW YORK NY	151.8	PLN	DTVPLN -DTVP0895
24	WNVC	FAIRFAX VA	208.2	PLN	DTVPLN -DTVP0909
25	WCNY-TV	SYRACUSE NY	292.7	LIC	BMLEDT -20040916ABJ
25	WCNY-TV	SYRACUSE NY	292.7	PLN	DTVPLN -DTVP0933
25	KDKA-TV	PITTSBURGH PA	366.4	LIC	BLCDT -20041004ACS
25	KDKA-TV	PITTSBURGH PA	366.4	PLN	DTVPLN -DTVP0934
25	WTVR-TV	RICHMOND VA	354.0	LIC	BLCDT -20021204ABA
25	WTVR-TV	RICHMOND VA	354.0	PLN	DTVPLN -DTVP0939
26	WHAG-TV	HAGERSTOWN MD	207.1	PLN	DTVPLN -DTVP0958
26	KYW-TV	PHILADELPHIA PA	50.0	CP	BPCDT -19980408KE
26	KYW-TV	PHILADELPHIA PA	50.0	PLN	DTVPLN -DTVP0974
24	WNVC-DT	FAIRFAX VA	208.2	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WTVE	READING PA	DTVPLN -DTVP0935

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	WNYE-TV	NEW YORK NY	151.8	CP MOD	BMPEDT -20070124AAX
24	WNYE-TV	NEW YORK NY	151.8	PLN	DTVPLN -DTVP0895
24	WNVC	FAIRFAX VA	208.2	PLN	DTVPLN -DTVP0909
25	WCNY-TV	SYRACUSE NY	292.7	LIC	BMLEDT -20040916ABJ
25	WCNY-TV	SYRACUSE NY	292.7	PLN	DTVPLN -DTVP0933
25	KDKA-TV	PITTSBURGH PA	366.4	LIC	BLCDT -20041004ACS
25	KDKA-TV	PITTSBURGH PA	366.4	PLN	DTVPLN -DTVP0934
25	WTVR-TV	RICHMOND VA	354.0	LIC	BLCDT -20021204ABA
25	WTVR-TV	RICHMOND VA	354.0	PLN	DTVPLN -DTVP0939
26	WHAG-TV	HAGERSTOWN MD	207.1	PLN	DTVPLN -DTVP0958
26	KYW-TV	PHILADELPHIA PA	50.0	CP	BPCDT -19980408KE
26	KYW-TV	PHILADELPHIA PA	50.0	PLN	DTVPLN -DTVP0974
24	WNVC-DT	FAIRFAX VA	208.2	APP	USERRECORD-01

Proposal causes no interference

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Table 1 WNVC-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 18 of 22)

Analysis of Interference to Affected Station 19

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WTVE	READING PA	BLCDT -20040323ATZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	WNYE-TV	NEW YORK NY	167.5	CP MOD	BMPEDT -20070124AAX
24	WNYE-TV	NEW YORK NY	167.5	PLN	DTVPLN -DTVP0895
24	WATM-TV	ALTOONA PA	216.5	LIC	BLCDT -20050603ACF
24	WATM-TV	ALTOONA PA	216.5	PLN	DTVPLN -DTVP0899
24	WNVC	FAIRFAX VA	199.8	PLN	DTVPLN -DTVP0909
25	WCNY-TV	SYRACUSE NY	288.5	LIC	BMLEDT -20040916ABJ
25	WCNY-TV	SYRACUSE NY	288.6	PLN	DTVPLN -DTVP0933
25	KDKA-TV	PITTSBURGH PA	349.0	LIC	BLCDT -20041004ACS
25	KDKA-TV	PITTSBURGH PA	349.0	PLN	DTVPLN -DTVP0934
25	WTVR-TV	RICHMOND VA	348.4	LIC	BLCDT -20021204ABA
25	WTVR-TV	RICHMOND VA	348.4	PLN	DTVPLN -DTVP0939
26	WHAG-TV	HAGERSTOWN MD	192.0	PLN	DTVPLN -DTVP0958
26	KYW-TV	PHILADELPHIA PA	65.6	CP	BPCDT -19980408KE
26	KYW-TV	PHILADELPHIA PA	65.6	PLN	DTVPLN -DTVP0974
24	WNVC-DT	FAIRFAX VA	199.8	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 20

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WTVR-TV	RICHMOND VA	BLCDT -20021204ABA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	WDRL-TV	DANVILLE VA	179.6	PLN	DTVPLN -DTVP0908
24	WDRL-TV	DANVILLE VA	183.0	APP	BPCDT -20080317AIL
24	WNVC	FAIRFAX VA	154.9	PLN	DTVPLN -DTVP0909
25	WUNC-TV	CHAPEL HILL NC	230.1	CP	BPEDT -20080401AEW
25	WUNC-TV	CHAPEL HILL NC	230.1	PLN	DTVPLN -DTVP0930
25	KDKA-TV	PITTSBURGH PA	391.7	LIC	BLCDT -20041004ACS
25	KDKA-TV	PITTSBURGH PA	391.7	PLN	DTVPLN -DTVP0934
25	WTVE	READING PA	354.0	CP	BPCDT -20040518AAZ
25	WTVE	READING PA	354.0	PLN	DTVPLN -DTVP0935
25	WTVE	READING PA	348.4	LIC	BLCDT -20040323ATZ
26	WRLH-TV	RICHMOND VA	0.0	CP MOD	BMPEDT -20040507ABE
26	WRLH-TV	RICHMOND VA	0.0	PLN	DTVPLN -DTVP0982
24	WNVC-DT	FAIRFAX VA	154.9	APP	USERRECORD-01

Total scenarios = 4

Result key: 135
Scenario 1 Affected station 20
Before Analysis

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 19 of 22)

Results for: 25A VA RICHMOND BLCDT 20021204ABA LIC
HAAT 347.0 m, ATV ERP 410.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1536331	29017.9
not affected by terrain losses	1532185	28868.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	599	48.4
lost to ATV IX only	599	48.4
lost to all IX	599	48.4

Potential Interfering Stations Included in above Scenario 1

25A NC CHAPEL HILL	BPEDT	20080401AEW	CP
25A PA READING	BPCDT	20040518AAZ	CP

After Analysis

Results for: 25A VA RICHMOND BLCDT 20021204ABA LIC
HAAT 347.0 m, ATV ERP 410.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1536331	29017.9
not affected by terrain losses	1532185	28868.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1053	52.4
lost to ATV IX only	1053	52.4
lost to all IX	1053	52.4

Potential Interfering Stations Included in above Scenario 1

25A NC CHAPEL HILL	BPEDT	20080401AEW	CP
25A PA READING	BPCDT	20040518AAZ	CP
24A VA FAIRFAX	USERRECORD01		APP

Percent new IX = 0.0296%

Worst case new IX 0.0296% Scenario 1

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Analysis of Interference to Affected Station 21

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WTVR-TV	RICHMOND VA	DTVPLN -DTVPO939

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	WDLR-TV	DANVILLE VA	179.6	PLN	DTVPLN -DTVPO908
24	WDLR-TV	DANVILLE VA	183.0	APP	BPCDT -20080317AIL
24	WNVC	FAIRFAX VA	154.9	PLN	DTVPLN -DTVPO909
25	WUNC-TV	CHAPEL HILL NC	230.1	CP	BPEDT -20080401AEW
25	WUNC-TV	CHAPEL HILL NC	230.1	PLN	DTVPLN -DTVPO930
25	KDKA-TV	PITTSBURGH PA	391.7	LIC	BLCDT -20041004ACS
25	KDKA-TV	PITTSBURGH PA	391.7	PLN	DTVPLN -DTVPO934
25	WTVE	READING PA	354.0	CP	BPCDT -20040518AAZ
25	WTVE	READING PA	354.0	PLN	DTVPLN -DTVPO935
25	WTVE	READING PA	348.4	LIC	BLCDT -20040323ATZ
26	WRLH-TV	RICHMOND VA	0.0	CP MOD	BMPCDT -20040507ABE

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 20 of 22)

26	WRLH-TV	RICHMOND VA	0.0	PLN	DTVPLN -DTVPO982
24	WNVC-DT	FAIRFAX VA	154.9	APP	USERRECORD-01

Total scenarios = 4

Result key: 139
Scenario 1 Affected station 21
Before Analysis

Results for: 25A VA RICHMOND DTVPLN DTVPO939 PLN
HAAT 347.0 m, ATV ERP 410.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1536331	29017.9
not affected by terrain losses	1532185	28868.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	599	48.4
lost to ATV IX only	599	48.4
lost to all IX	599	48.4

Potential Interfering Stations Included in above Scenario 1

25A NC CHAPEL HILL	BPEDT	20080401AEW	CP
25A PA READING	BPCDT	20040518AAZ	CP

After Analysis

Results for: 25A VA RICHMOND DTVPLN DTVPO939 PLN
HAAT 347.0 m, ATV ERP 410.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1536331	29017.9
not affected by terrain losses	1532185	28868.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1053	52.4
lost to ATV IX only	1053	52.4
lost to all IX	1053	52.4

Potential Interfering Stations Included in above Scenario 1

25A NC CHAPEL HILL	BPEDT	20080401AEW	CP
25A PA READING	BPCDT	20040518AAZ	CP
24A VA FAIRFAX	USERRECORD01		APP

Percent new IX = 0.0296%

Worst case new IX 0.0296% Scenario 1

#####

Analysis of Interference to Affected Station 22

Analysis of current record

Channel	Call	City/State	Application Ref. No.
28	WAZF-CA	WINCHESTER/FRONT ROY VA	BLTTL -19940422IK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
21	WVPY	FRONT ROYAL VA	29.3	LIC	BLEDT -20021220ADZ
21	WVPY	FRONT ROYAL VA	29.3	PLN	DTVPLN -DTVPO787

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 21 of 22)

24	WNVC	FAIRFAX VA	89.9	CP	BPEDT	-20080221ACD
24	WNVC	FAIRFAX VA	89.9	PLN	DTVPLN	-DTVP0909
25	WHAG-TV	HAGERSTOWN MD	55.0	CP	BPCT	-20021203ACY
26	WETA-TV	WASHINGTON DC	96.3	LIC	BMLET	-20031216AAB
26	WHAG-TV	HAGERSTOWN MD	55.0	PLN	DTVPLN	-DTVP0958
27	WETA-TV	WASHINGTON DC	98.7	LIC	BLEDT	-20070727ACJ
27	WETA-TV	WASHINGTON DC	98.7	PLN	DTVPLN	-DTVP0991
28	WFPT	FREDERICK MD	75.0	LIC	BLEDT	-20050302AEG
28	WFPT	FREDERICK MD	75.0	PLN	DTVPLN	-DTVP1041
28	WCPB	SALISBURY MD	241.5	LIC	BLET	-19950629KE
28	WCPB	SALISBURY MD	241.5	PLN	DTVPLN	-DTVP1042
28	WRDC	DURHAM NC	392.6	CP	BPCDT	-20080317AGR
28	WRDC	DURHAM NC	392.6	PLN	DTVPLN	-DTVP1047
28	WRDC	DURHAM NC	392.5	LIC	BLCT	-19910116KE
28	WNBC	NEW YORK NY	392.8	PLN	DTVPLN	-DTVP1049
28	WVTX-CA	BRIDGEPORT OH	240.6	APP	BSTA	-20061222ABQ
28	WVTX-CA	BRIDGEPORT OH	240.3	LIC	BLTTA	-20050919ABE
28	WUAB	LORAIN OH	386.0	LIC	BLCDT	-20020516AAG
28	WUAB	LORAIN OH	386.0	PLN	DTVPLN	-DTVP1051
28	WBRE-TV	WILKES-BARRE PA	295.5	LIC	BLCT	-19891005KF
28	W28BF	HARRISONBURG VA	102.9	LIC	BLTT	-19951011IA
29	WMPB	BALTIMORE MD	123.5	LIC	BLEDT	-20031029ACG
29	WMPB	BALTIMORE MD	123.8	PLN	DTVPLN	-DTVP1073
29	WMPB	BALTIMORE MD	123.5	CP	BPEDT	-20000501AHG
30	WNVTV	GOLDVEIN VA	89.9	LIC	BLEDT	-20031230AAR
30	WNVTV	GOLDVEIN VA	89.9	PLN	DTVPLN	-DTVP1125
31	WWPB	HAGERSTOWN, MD	53.6	LIC	BLET	-19960828KE
32	WHUT-TV	WASHINGTON DC	96.2	LIC	BLET	-19801107KE
32	WVIR-TV	CHARLOTTESVILLE VA	137.3	LIC	BLCDT	-20040908AAE
32	WVIR-TV	CHARLOTTESVILLE VA	137.3	PLN	DTVPLN	-DTVP1201
35	WDCA	WASHINGTON DC	98.3	CP MOD	BMPCDT	-20060519ACK
35	WDCA	WASHINGTON DC	98.7	PLN	DTVPLN	-DTVP1283
36	WTTG	WASHINGTON DC	98.3	CP	BPCDT	-20080313ACG
36	WTTG	WASHINGTON DC	98.3	PLN	DTVPLN	-DTVP1320
36	WTTG	WASHINGTON DC	98.3	LIC	BLCDT	-19991013AAB
36	WGPT	OAKLAND MD	98.6	PLN	DTVPLN	-DTVP1332
42	WMPT	ANNAPOLIS MD	137.0	LIC	BLEDT	-20030903ABC
42	WMPT	ANNAPOLIS MD	137.0	PLN	DTVPLN	-DTVP1506
42	WVPY	FRONT ROYAL VA	29.3	LIC	BLET	-20070226AEU
43	WPXW	MANASSAS VA	86.3	APP	BPCT	-20011214AAQ
24	WNVC-DT	FAIRFAX VA	89.9	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 23

Analysis of current record

Channel	Call	City/State	Application Ref. No.
24	WNVC-DT	FAIRFAX VA	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
23	WLYH-TV	LANCASTER PA	167.4	LIC	BLCDT -20040922AAC
23	WLYH-TV	LANCASTER PA	167.4	PLN	DTVPLN -DTVP0859
24	WNYE-TV	NEW YORK NY	346.5	CP MOD	BMPCDT -20070124AAX
24	WNYE-TV	NEW YORK NY	346.5	PLN	DTVPLN -DTVP0895

Table 1 WNVC-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 22 of 22)

24	WATM-TV	ALTOONA PA	215.3	LIC	BLCDT	-20050603ACF
24	WATM-TV	ALTOONA PA	215.3	PLN	DTVPLN	-DTVP0899
24	WJET-TV	ERIE PA	426.3	PLN	DTVPLN	-DTVP0900
24	WDRL-TV	DANVILLE VA	288.1	PLN	DTVPLN	-DTVP0908
24	WDRL-TV	DANVILLE VA	292.0	APP	BPCDT	-20080317AIL
25	WTVE	READING PA	208.2	CP	BPCDT	-20040518AAZ
25	WTVE	READING PA	208.2	PLN	DTVPLN	-DTVP0935
25	WTVE	READING PA	199.8	LIC	BLCDT	-20040323ATZ
25	WTVR-TV	RICHMOND VA	154.9	LIC	BLCDT	-20021204ABA
25	WTVR-TV	RICHMOND VA	154.9	PLN	DTVPLN	-DTVP0939

Total scenarios = 2

Result key: 143
Scenario 1 Affected station 23
Before Analysis

Results for: 24A VA FAIRFAX	USERRECORD01	APP
HAAT 221.0 m, ATV ERP 160.0 kW		
within Noise Limited Contour	POPULATION 6456923	AREA (sq km) 18203.6
not affected by terrain losses	6431104	17679.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15835	128.1
lost to ATV IX only	15835	128.1
lost to all IX	15835	128.1

Potential Interfering Stations Included in above Scenario 1

24A PA ALTOONA BLCDT 20050603ACF LIC

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

Section VII Preparer's Certification

I certify that I have prepared Section VII (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 6/5/2008	
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).

SECTION VII - 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.

- The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:
 - It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622. ☒ Yes ☐ No
 - 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
 - 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
 - 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
 - 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
- 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. ☒ Yes ☐ No
Applicant must **submit the Exhibit** called for in Item 13.
- 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
- 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
- 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 VII - 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 24 Analog TV, if any 56
2.	Zone: <input checked="" type="radio"/> I <input type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 38 Minutes 52 Seconds 28 <input checked="" type="radio"/> North <input type="radio"/> South Longitude: Degrees 77 Minutes 13 Seconds 24 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1017638 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 110.3 meters
6.	Overall Tower Height Above Ground Level: 210 meters
7.	Height of Radiation Center Above Ground Level: 200.5 meters
8.	Height of Radiation Center Above Average Terrain (HAAT): 221.1 meters
9.	Maximum Effective Radiated Power (average power): 160 kW
10.	Antenna Specifications: a. Manufacturer DIE Model TFU-26GTH-R 04 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 33] 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] <div>If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. Exhibit required. [Exhibit 34]</div> 11. Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if Certification Checklist Items 1(a), (b), or (c) are answered "No.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616? <input checked="" type="radio"/> Yes <input type="radio"/> No [Exhibit 35] 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 therefor. (Applicable only if Certification Checklist item 3 is answered "No.") [Exhibit 36] 13. Environmental Protection Act. Submit in an Exhibit the following: [Exhibit 37] a. 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.
PREPARERS CERTIFICATION ON PAGE 8 MUST BE COMPLETED AND SIGNED.	