

## **ENGINEERING EXHIBIT**

### **Application to Modify Post-Transition Digital Television Station Construction Permit**

prepared for

#### **WGAL Hearst-Argyle Television, Inc.**

WGAL-DT Lancaster, PA

Facility ID 53930

Ch. 8 8.1 kW 419 m

*WGAL Hearst-Argyle Television, Inc.* (“*Hearst-Argyle*”) is the licensee of television station WGAL(TV), analog Channel 8 and digital Channel 58, Lancaster, PA. A “maximization” Construction Permit (“CP”, BMPCDT-20080616ABJ) authorizes construction of the WGAL-DT post-transition digital facility on Channel 8, as established in Appendix B of the Seventh Report and Order in MB Docket 87-268. *Hearst-Argyle* herein seeks to modify the CP to further expand the WGAL-DT post-transition Channel 8 digital facility.

The current CP authorizes operation with an effective radiated power (“ERP”) of 7.5 kW at 419 meters antenna height above average terrain (“HAAT”), with a nondirectional antenna. An increase in ERP to 8.1 kW is proposed herein. No other changes are proposed.

The proposed digital Channel 8 operation will employ the existing non-directional antenna system licensed for WGAL’s analog Channel 8. The antenna is a horizontally polarized RCA model TW-9A8-R. The antenna is top-mounted on the existing WGAL antenna supporting structure, having FCC Antenna Structure Registration (“ASR”) number 1031756. No change to the overall structure height and no tower work are required to carry out this proposal.

A map is supplied as **Figure 1**, which depicts the standard predicted coverage contours. This map includes the location of Lancaster, WGAL-DT’s principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 43 dB $\mu$  contour.

The proposed WGAL-DT facility's predicted service population provides a 113.3 percent match of the Appendix B facility, as detailed in the table below.

<b>Post-Transition Population Summary</b>		
Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	5,089,460	5,562,302
Not affected by terrain losses	4,241,096	4,826,235
Lost to all interference	152,951	196,022
Net DTV Service	<b>4,088,145</b>	<b>4,630,213</b>
Match of Appendix B	---	<b>113.26%</b>

A detailed interference study per OET Bulletin 69<sup>1</sup> shows that the proposal complies with the 0.5 percent limit of new interference caused to the Appendix B facilities and current post-transition authorizations of pertinent nearby stations. **Pursuant to §73.616(e)(1), FCC processing of this proposal is requested on the basis of a 0.5 km cell size.** The interference study output report is provided as **Table 1**. Protection requirements towards authorized Class A stations are also satisfied.

### **Other Allocation Considerations**

The nearest FCC monitoring station is 98.1 km distant at Laurel, MD. This exceeds the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with “quiet” zones specified in §73.1030(a) and (b). There are no AM stations within 3.2 kilometers of the site, based on information contained within the Commission's database. The site location is within the Canadian coordination zone (367 km to the Canada border), thus further international coordination may be necessary beyond that to establish Appendix B parameters.

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

The proposal will involve use of an existing transmitting antenna. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. No tower construction or change in

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<sup>1</sup>FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 (“OET-69”). The implementation of OET-69 for this study followed the guidelines of OET-69 as specified therein. **A cell size of 0.5 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.

structure height is proposed. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and assuming the worst-case of 100% antenna relative field in downward elevations, the calculated power density attributable to the proposed facility at locations near the transmitter site at a height of two meters above ground level is  $4.8 \mu\text{W}/\text{cm}^2$ , which is 2.4 percent of the "uncontrolled / general public" maximum permissible exposure limit. This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent. When the antenna's elevation pattern is considered, the calculated RF exposure level will be even lower.

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

### **Certification**

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



Joseph M. Davis, P.E.  
May 27, 2009

**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

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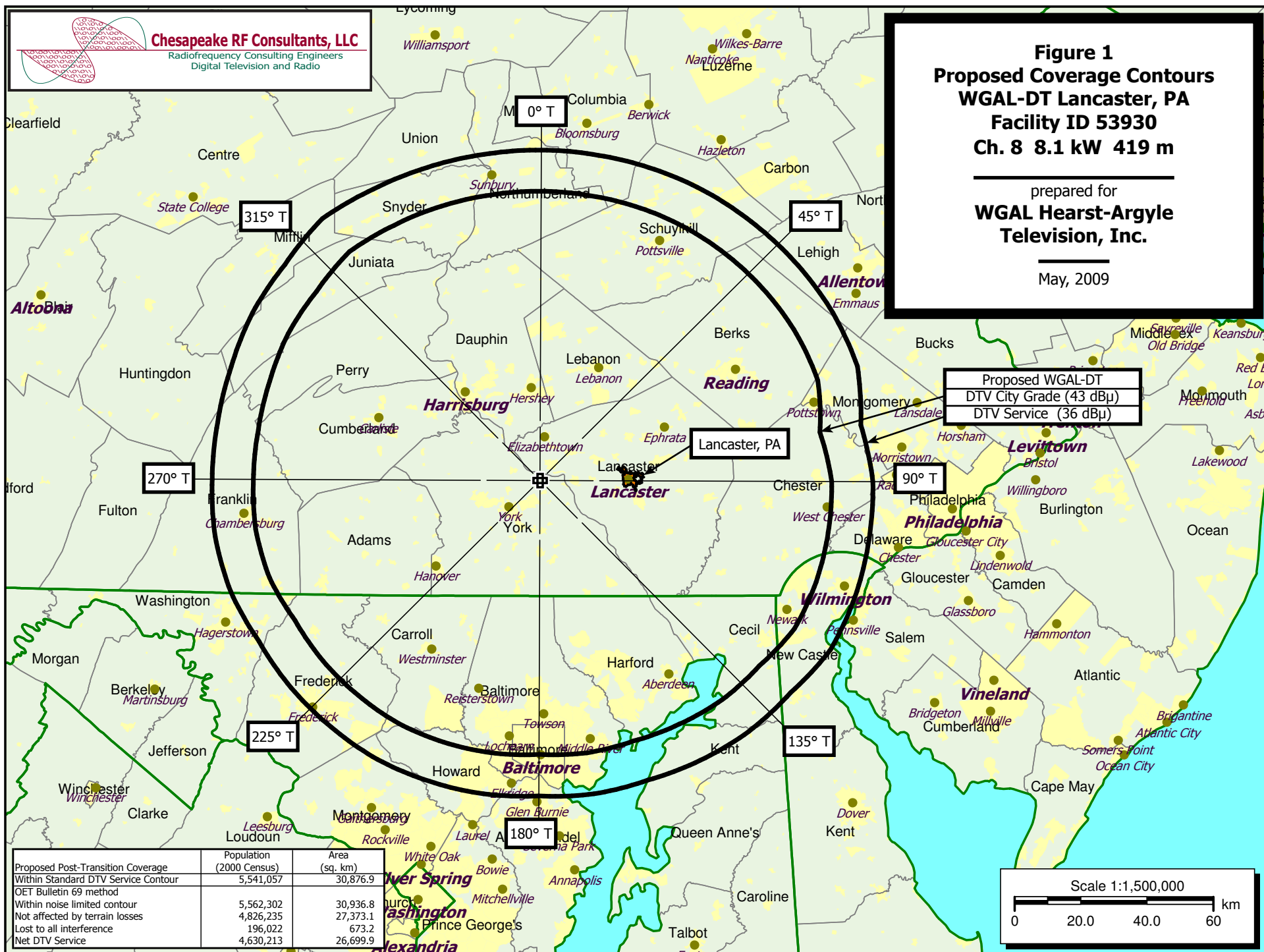


**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 1**  
**Proposed Coverage Contours**  
**WGAL-DT Lancaster, PA**  
**Facility ID 53930**  
**Ch. 8 8.1 kW 419 m**

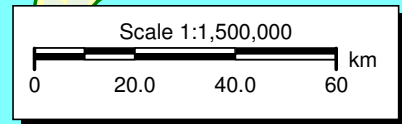
prepared for  
**WGAL Hearst-Argyle**  
**Television, Inc.**

May, 2009



Proposed WGAL-DT  
DTV City Grade (43 dBμ)  
DTV Service (36 dBμ)

Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	5,541,057	30,876.9
OET Bulletin 69 method		
Within noise limited contour	5,562,302	30,936.8
Not affected by terrain losses	4,826,235	27,373.1
Lost to all interference	196,022	673.2
Net DTV Service	4,630,213	26,699.9



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

(worst-case scenarios shown page 1 of 20)

**Cell Size = 0.5km**

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

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 05-27-2009 Time: 09:27:41

Record Selected for Analysis

WGAL-DT USERRECORD-01 LANCASTER PA US  
Channel 08 ERP 8.1 kW HAAT 419. m RCAMSL 00557 m  
Latitude 040-02-04 Longitude 0076-37-08  
Status APP Zone 1 Border  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 0.5 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	8.100	424.8	99.5
45.0	8.100	444.3	100.9
90.0	8.100	440.0	100.6
135.0	8.100	411.9	98.7
180.0	8.100	355.3	94.9
225.0	8.100	404.1	98.2
270.0	8.100	415.4	98.9
315.0	8.100	459.1	102.0

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance  
Distance to border = 367.1km

Proposed facility is beyond the Mexican coordination distance

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

(worst-case scenarios shown page 2 of 20)

**Cell Size = 0.5km**

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
08	WGAL-DT	LANCASTER PA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	126.8	PLN	DTVPLN	-DTVP0053
07	WJLA-TV	WASHINGTON DC	126.8	CP MOD	BMPCDT	-20080620AIH
07	W07BV	WILKESBARRE/PITTSTON PA	145.9	APP	BDFCDVA	-20070607ACJ
08	WNJB	NEW BRUNSWICK NJ	236.8	CP MOD	BMPEDT	-20070125ACC
08	WNJB	NEW BRUNSWICK NJ	190.7	PLN	DTVPLN	-DTVP0148
08	WICZ-TV	BINGHAMTON NY	231.7	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	231.7	PLN	DTVPLN	-DTVP0152
08	WWCP-TV	JOHNSTOWN PA	215.9	CP MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	215.9	PLN	DTVPLN	-DTVP0159
09	WUSA	WASHINGTON DC	126.8	PLN	DTVPLN	-DTVP0188
09	WUSA	WASHINGTON DC	126.8	CP MOD	BMPCDT	-20080425ABL
09	WBPH-TV	BETHLEHEM PA	116.0	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	116.0	PLN	DTVPLN	-DTVP0216
09	WBPH-TV	BETHLEHEM PA	116.0	CP	BPCDT	-20080619ALA

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	DTVPLN	-DTVP0053

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	358.4	LIC	BLCDT	-20060329ACH
07	WBNG-TV	BINGHAMTON NY	358.4	PLN	DTVPLN	-DTVP0088
07	WABC-TV	NEW YORK NY	326.8	PLN	DTVPLN	-DTVP0090
07	WABC-TV	NEW YORK NY	326.7	APP	BMPCDT	-20080620AMV
07	WABC-TV	NEW YORK NY	331.1	CP	BPCDT	-20080529AJT
07	WHRE	VIRGINIA BEACH VA	243.4	CP MOD	BMPCDT	-20080821ADP
07	WHRE	VIRGINIA BEACH VA	243.4	PLN	DTVPLN	-DTVP0105
07	WTRF-TV	WHEELING WV	338.3	CP MOD	BMPCDT	-20080620ALK
07	WTRF-TV	WHEELING WV	338.3	PLN	DTVPLN	-DTVP0108
08	WWCP-TV	JOHNSTOWN PA	224.1	CP MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	224.1	PLN	DTVPLN	-DTVP0159
08	WGAL	LANCASTER PA	126.8	PLN	DTVPLN	-DTVP0160
08	WGAL-DT	LANCASTER PA	126.8	APP	USERRECORD-01	

Total scenarios = 24

Result key: 17  
Scenario 17 Affected station 1  
Before Analysis

Results for:	7A DC WASHINGTON	DTVPLN	DTVP0053	PLN
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**Table 1 WGAL-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 3 of 20)

**Cell Size = 0.5km**

HAAT 235.0 m, ATV ERP 13.6 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	7356014	26073.2
not affected by terrain losses	7249404	24265.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	34259	391.4
lost to ATV IX only	34259	391.4
lost to all IX	34259	391.4

Potential Interfering Stations Included in above Scenario 17

7A NY BINGHAMTON	BLCDDT	20060329ACH	LIC
7A NY NEW YORK	BMPCDDT	20080620AMV	APP
7A VA VIRGINIA BEACH	BMPCDDT	20080821ADP	CP
7A WV WHEELING	BMPCDDT	20080620ALK	CP
8A PA LANCASTER	DTVPLN	DTVP0160	PLN

After Analysis

Results for: 7A DC WASHINGTON DTVPLN DTVP0053 PLN

HAAT 235.0 m, ATV ERP 13.6 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	7356014	26073.2
not affected by terrain losses	7249404	24265.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	34452	395.7
lost to ATV IX only	34452	395.7
lost to all IX	34452	395.7

Potential Interfering Stations Included in above Scenario 17

7A NY BINGHAMTON	BLCDDT	20060329ACH	LIC
7A NY NEW YORK	BMPCDDT	20080620AMV	APP
7A VA VIRGINIA BEACH	BMPCDDT	20080821ADP	CP
7A WV WHEELING	BMPCDDT	20080620ALK	CP
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.0027%

Worst case new IX 0.0027% Scenario 17

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
07	WJLA-TV	WASHINGTON DC	BMPCDDT -20080620AIH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WBNG-TV	BINGHAMTON NY	358.4	LIC	BLCDDT -20060329ACH
07	WBNG-TV	BINGHAMTON NY	358.4	PLN	DTVPLN -DTVP0088
07	WABC-TV	NEW YORK NY	326.8	PLN	DTVPLN -DTVP0090
07	WABC-TV	NEW YORK NY	326.7	APP	BMPCDDT -20080620AMV
07	WABC-TV	NEW YORK NY	331.1	CP	BPCDDT -20080529AJT
07	WHRE	VIRGINIA BEACH VA	243.4	CP MOD	BMPCDDT -20080821ADP
07	WHRE	VIRGINIA BEACH VA	243.4	PLN	DTVPLN -DTVP0105
07	WTRF-TV	WHEELING WV	338.3	CP MOD	BMPCDDT -20080620ALK

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

(worst-case scenarios shown page 4 of 20)

**Cell Size = 0.5km**

07	WTRF-TV	WHEELING WV	338.3	PLN	DTVPLN	-DTVP0108
08	WWCP-TV	JOHNSTOWN PA	224.1	CP MOD	BMPCDDT	-20080620AIH
08	WWCP-TV	JOHNSTOWN PA	224.1	PLN	DTVPLN	-DTVP0159
08	WGAL	LANCASTER PA	126.8	PLN	DTVPLN	-DTVP0160
08	WGAL-DT	LANCASTER PA	126.8	APP	USERRECORD-01	

Total scenarios = 24

Result key: 29

Scenario 5 Affected station 2

Before Analysis

Results for: 7A DC WASHINGTON BMPCDDT 20080620AIH CP

HAAT 235.0 m, ATV ERP 30.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	7719630	29975.3
not affected by terrain losses	7471874	27667.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	30796	559.1
lost to ATV IX only	30796	559.1
lost to all IX	30796	559.1

Potential Interfering Stations Included in above Scenario 5

7A NY BINGHAMTON	BLCDDT	20060329ACH	LIC
7A NY NEW YORK	BPCDDT	20080529AJT	CP
7A VA VIRGINIA BEACH	BMPCDDT	20080821ADP	CP
7A WV WHEELING	BMPCDDT	20080620ALK	CP
8A PA LANCASTER	DTVPLN	DTVP0160	PLN

After Analysis

Results for: 7A DC WASHINGTON BMPCDDT 20080620AIH CP

HAAT 235.0 m, ATV ERP 30.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	7719630	29975.3
not affected by terrain losses	7471874	27667.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	31704	575.5
lost to ATV IX only	31704	575.5
lost to all IX	31704	575.5

Potential Interfering Stations Included in above Scenario 5

7A NY BINGHAMTON	BLCDDT	20060329ACH	LIC
7A NY NEW YORK	BPCDDT	20080529AJT	CP
7A VA VIRGINIA BEACH	BMPCDDT	20080821ADP	CP
7A WV WHEELING	BMPCDDT	20080620ALK	CP
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.0122%

Worst case new IX 0.0122% Scenario 5

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
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**Table 1 WGAL-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 5 of 20)

**Cell Size = 0.5km**

07	W07BV	WILKESBARRE/PITTSTON PA	BDFCDVA	-20070607ACJ
Stations Potentially Affecting This Station				
Chan	Call	City/State	Dist(km)	Status Application Ref. No.
07	WJLA-TV	WASHINGTON DC	271.9	PLN DTVPLN -DTV0053
07	WJLA-TV	WASHINGTON DC	271.9	CP MOD BMPCDT -20080620AIH
07	WHDH-TV	BOSTON MA	401.2	PLN DTVPLN -DTV0068
07	WHDH-TV	BOSTON MA	401.2	CP MOD BMPCDT -20080618AAE
07	WXXA-TV	ALBANY NY	218.1	LIC BLCDT -20051222AAQ
07	WXXA-TV	ALBANY NY	218.1	PLN DTVPLN -DTV0087
07	WBNG-TV	BINGHAMTON NY	96.2	LIC BLCDT -20060329ACH
07	WBNG-TV	BINGHAMTON NY	96.2	PLN DTVPLN -DTV0088
07	WVNY-TV	CARTHAGE NY	306.4	CP MOD BMPCDT -20080620AIE
07	WVNY-TV	CARTHAGE NY	306.4	PLN DTVPLN -DTV0089
07	WABC-TV	NEW YORK NY	161.0	PLN DTVPLN -DTV0090
07	WABC-TV	NEW YORK NY	161.1	APP BMPCDT -20080620AMV
07	WABC-TV	NEW YORK NY	161.8	CP BPCDT -20080529AJT
07	WNGS	SPRINGVILLE NY	281.4	CP BPCDT -20080328AFD
07	WNGS	SPRINGVILLE NY	281.4	PLN DTVPLN -DTV0091
08	WNJB	NEW BRUNSWICK NJ	161.5	CP MOD BMPEDT -20070125ACC
08	WNJB	NEW BRUNSWICK NJ	127.8	PLN DTVPLN -DTV0148
08	WICZ-TV	BINGHAMTON NY	95.9	LIC BLCDT -20060320AFC
08	WICZ-TV	BINGHAMTON NY	95.9	PLN DTVPLN -DTV0152
08	WGAL	LANCASTER PA	145.9	PLN DTVPLN -DTV0160
08	WGAL-DT	LANCASTER PA	145.9	APP USERRECORD-01

Proposed station is beyond the site to  
nearest cell evaluation distance

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Analysis of Interference to Affected Station 4

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	BMPEDT	-20070125ACC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status Application Ref. No.
07	WXXA-TV	ALBANY NY	207.8	LIC BLCDT -20051222AAQ
07	WXXA-TV	ALBANY NY	207.8	PLN DTVPLN -DTV0087
07	WBNG-TV	BINGHAMTON NY	218.6	LIC BLCDT -20060329ACH
07	WBNG-TV	BINGHAMTON NY	218.6	PLN DTVPLN -DTV0088
07	WABC-TV	NEW YORK NY	5.4	PLN DTVPLN -DTV0090
07	WABC-TV	NEW YORK NY	5.6	APP BMPCDT -20080620AMV
07	WABC-TV	NEW YORK NY	0.9	CP BPCDT -20080529AJT
08	WICZ-TV	BINGHAMTON NY	218.0	LIC BLCDT -20060320AFC
08	WICZ-TV	BINGHAMTON NY	218.0	PLN DTVPLN -DTV0152
08	WGAL	LANCASTER PA	236.8	PLN DTVPLN -DTV0160
09	WEDN	NORWICH CT	174.4	CP BPEDT -20080619AFA
09	WEDN	NORWICH CT	174.4	PLN DTVPLN -DTV0187
09	WBPH-TV	BETHLEHEM PA	124.4	LIC BLCDT -20060609AAH
09	WBPH-TV	BETHLEHEM PA	124.4	PLN DTVPLN -DTV0216
09	WBPH-TV	BETHLEHEM PA	124.4	CP BPCDT -20080619ALA
08	WGAL-DT	LANCASTER PA	236.8	APP USERRECORD-01

Total scenarios = 18

**Table 1 WGAL-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 6 of 20)

**Cell Size = 0.5km**

Result key:	55
Scenario	7 Affected station 4
Before Analysis	
Results for:	8A NJ NEW BRUNSWICK BMPEDT 20070125ACC CP
HAAT	296.0 m, ATV ERP 11.2 kW
	POPULATION AREA (sq km)
within Noise Limited Contour	19640834 27264.3
not affected by terrain losses	19291401 25384.1
lost to NTSC IX	0 0.0
lost to additional IX by ATV	28614 225.2
lost to ATV IX only	28614 225.2
lost to all IX	28614 225.2
Potential Interfering Stations Included in above Scenario 7	
7A NY NEW YORK	BPCDT 20080529AJT CP
8A NY BINGHAMTON	BLCDT 20060320AFC LIC
9A PA BETHLEHEM	BLCDT 20060609AAH LIC
8A PA LANCASTER	DTVPLN DTV0160 PLN

After Analysis

Results for:	8A NJ NEW BRUNSWICK BMPEDT 20070125ACC CP
HAAT	296.0 m, ATV ERP 11.2 kW
	POPULATION AREA (sq km)
within Noise Limited Contour	19640834 27264.3
not affected by terrain losses	19291401 25384.1
lost to NTSC IX	0 0.0
lost to additional IX by ATV	41343 315.7
lost to ATV IX only	41343 315.7
lost to all IX	41343 315.7
Potential Interfering Stations Included in above Scenario 7	
7A NY NEW YORK	BPCDT 20080529AJT CP
8A NY BINGHAMTON	BLCDT 20060320AFC LIC
9A PA BETHLEHEM	BLCDT 20060609AAH LIC
8A PA LANCASTER	USERRECORD01 APP

Percent new IX = 0.0661%

Worst case new IX 0.0661% Scenario 7

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Analysis of Interference to Affected Station 5

Analysis of current record				
Channel	Call	City/State	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	DTVPLN	-DTV0148

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status Application Ref. No.
07	WXXA-TV	ALBANY NY	226.5	LIC BLCDT -20051222AAQ
07	WXXA-TV	ALBANY NY	226.5	PLN DTVPLN -DTV0087
07	WBNG-TV	BINGHAMTON NY	200.3	LIC BLCDT -20060329ACH
07	WBNG-TV	BINGHAMTON NY	200.3	PLN DTVPLN -DTV0088
07	WABC-TV	NEW YORK NY	42.6	PLN DTVPLN -DTV0090



Table 1 WGAL-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 7 of 20)

Cell Size = 0.5km

07	WABC-TV	NEW YORK NY	42.5	APP	BMPCDT	-20080620AMV
07	WABC-TV	NEW YORK NY	45.9	CP	BPCDT	-20080529AJT
08	WICZ-TV	BINGHAMTON NY	199.7	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	199.7	PLN	DTVPLN	-DTVP0152
08	WWCP-TV	JOHNSTOWN PA	396.3	CP MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	396.3	PLN	DTVPLN	-DTVP0159
08	WGAL	LANCASTER PA	190.7	PLN	DTVPLN	-DTVP0160
09	WEDN	NORWICH CT	219.8	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	219.8	PLN	DTVPLN	-DTVP0187
09	WBPH-TV	BETHLEHEM PA	79.2	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	79.2	PLN	DTVPLN	-DTVP0216
09	WBPH-TV	BETHLEHEM PA	79.2	CP	BPCDT	-20080619ALA
08	WGAL-DT	LANCASTER PA	190.7	APP	USERRECORD-01	

Total scenarios = 18

Result key: 73

Scenario 7 Affected station 5  
Before Analysis

Results for:	8A NJ NEW BRUNSWICK	DTVPLN	DTVP0148	PLN
HAAT	212.0 m, ATV ERP 20.2 kW			
	POPULATION	AREA (sq km)		
within Noise Limited Contour	19458321	24876.0		
not affected by terrain losses	18888075	22514.4		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	3628837	2270.4		
lost to ATV IX only	3628837	2270.4		
lost to all IX	3628837	2270.4		

Potential Interfering Stations Included in above Scenario 7

7A NY NEW YORK	BPCDT	20080529AJT	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
8A PA LANCASTER	DTVPLN	DTVP0160	PLN

After Analysis

Results for:	8A NJ NEW BRUNSWICK	DTVPLN	DTVP0148	PLN
HAAT	212.0 m, ATV ERP 20.2 kW			
	POPULATION	AREA (sq km)		
within Noise Limited Contour	19458321	24876.0		
not affected by terrain losses	18888075	22514.4		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	3704078	2402.0		
lost to ATV IX only	3704078	2402.0		
lost to all IX	3704078	2402.0		

Potential Interfering Stations Included in above Scenario 7

7A NY NEW YORK	BPCDT	20080529AJT	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.4931%

Worst case new IX 0.4931% Scenario 7

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Table 1 WGAL-DT OET Bulletin 69 Interference Study

(worst-case scenarios shown page 8 of 20)

Cell Size = 0.5km

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WICZ-TV	BINGHAMTON NY	BLCDT	-20060320AFC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WXXA-TV	ALBANY NY	171.0	LIC	BLCDT	-20051222AAQ
07	WXXA-TV	ALBANY NY	171.0	PLN	DTVPLN	-DTVP0087
07	WBNG-TV	BINGHAMTON NY	0.7	LIC	BLCDT	-20060329ACH
07	WBNG-TV	BINGHAMTON NY	0.7	PLN	DTVPLN	-DTVP0088
07	WWNY-TV	CARTHAGE NY	211.7	CP MOD	BMPCDT	-20080620AIE
07	WWNY-TV	CARTHAGE NY	211.7	PLN	DTVPLN	-DTVP0089
07	WABC-TV	NEW YORK NY	219.6	PLN	DTVPLN	-DTVP0090
07	WABC-TV	NEW YORK NY	219.8	APP	BMPCDT	-20080620AMV
07	WABC-TV	NEW YORK NY	218.6	CP	BPCDT	-20080529AJT
08	WNJB	NEW BRUNSWICK NJ	218.0	CP MOD	BMPCDT	-20070125ACC
08	WNJB	NEW BRUNSWICK NJ	199.7	PLN	DTVPLN	-DTVP0148
08	WWCP-TV	JOHNSTOWN PA	339.9	CP MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	339.9	PLN	DTVPLN	-DTVP0159
08	WGAL	LANCASTER PA	231.7	PLN	DTVPLN	-DTVP0160
09	WBPH-TV	BETHLEHEM PA	171.1	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	171.1	PLN	DTVPLN	-DTVP0216
09	WBPH-TV	BETHLEHEM PA	171.1	CP	BPCDT	-20080619ALA
08	WGAL-DT	LANCASTER PA	231.7	APP	USERRECORD-01	

Total scenarios = 4

Result key: 85

Scenario 1 Affected station 6  
Before Analysis

Results for:	8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
HAAT	371.0 m, ATV ERP 7.9 kW			
	POPULATION	AREA (sq km)		
within Noise Limited Contour	962490	24362.0		
not affected by terrain losses	785455	21897.1		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	9673	272.3		
lost to ATV IX only	9673	272.3		
lost to all IX	9673	272.3		

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BMPCDT	20070125ACC	CP
8A PA JOHNSTOWN	BMPCDT	20080620AIX	CP
8A PA LANCASTER	DTVPLN	DTVP0160	PLN

After Analysis

Results for:	8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
HAAT	371.0 m, ATV ERP 7.9 kW			
	POPULATION	AREA (sq km)		
within Noise Limited Contour	962490	24362.0		
not affected by terrain losses	785455	21897.1		
lost to NTSC IX	0	0.0		

**Table 1 WGAL-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 9 of 20)

**Cell Size = 0.5km**

lost to additional IX by ATV	10176	284.8
lost to ATV IX only	10176	284.8
lost to all IX	10176	284.8

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BMPEDT	20070125ACC	CP
8A PA JOHNSTOWN	BMPCDT	20080620AIX	CP
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.0648%

Worst case new IX 0.0648% Scenario 1

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Analysis of Interference to Affected Station 7

Analysis of current record		City/State	Application Ref. No.
Channel	Call		
08	WICZ-TV	BINGHAMTON NY	DTVPLN -DTV0152

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WXXA-TV	ALBANY NY	171.0	LIC	BLCDT -20051222AAQ
07	WXXA-TV	ALBANY NY	171.0	PLN	DTVPLN -DTV0087
07	WBNG-TV	BINGHAMTON NY	0.7	LIC	BLCDT -20060329ACH
07	WBNG-TV	BINGHAMTON NY	0.7	PLN	DTVPLN -DTV0088
07	WWNY-TV	CARTHAGE NY	211.7	CP MOD	BMPCDT -20080620AIE
07	WWNY-TV	CARTHAGE NY	211.7	PLN	DTVPLN -DTV0089
07	WABC-TV	NEW YORK NY	219.6	PLN	DTVPLN -DTV0090
07	WABC-TV	NEW YORK NY	219.8	APP	BMPCDT -20080620AMV
07	WABC-TV	NEW YORK NY	218.6	CP	BPCDT -20080529AJT
08	WNJB	NEW BRUNSWICK NJ	218.0	CP MOD	BMPEDT -20070125ACC
08	WNJB	NEW BRUNSWICK NJ	199.7	PLN	DTVPLN -DTV0148
08	WWCP-TV	JOHNSTOWN PA	339.9	CP MOD	BMPCDT -20080620AIX
08	WWCP-TV	JOHNSTOWN PA	339.9	PLN	DTVPLN -DTV0159
08	WGAL	LANCASTER PA	231.7	PLN	DTVPLN -DTV0160
09	WBPH-TV	BETHLEHEM PA	171.1	LIC	BLCDT -20060609AAH
09	WBPH-TV	BETHLEHEM PA	171.1	PLN	DTVPLN -DTV0216
09	WBPH-TV	BETHLEHEM PA	171.1	CP	BPCDT -20080619ALA
08	WGAL-DT	LANCASTER PA	231.7	APP	USERRECORD-01

Total scenarios = 4

Result key: 89  
Scenario 1 Affected station 7  
Before Analysis

Results for: 8A NY BINGHAMTON	DTVPLN	DTV0152	PLN
HAAT 371.0 m, ATV ERP 7.9 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	962490	24362.0	
not affected by terrain losses	785455	21897.1	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	9673	272.3	
lost to ATV IX only	9673	272.3	

**Table 1 WGAL-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 10 of 20)

**Cell Size = 0.5km**

lost to all IX	9673	272.3
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Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BMPEDT	20070125ACC	CP
8A PA JOHNSTOWN	BMPCDT	20080620AIX	CP
8A PA LANCASTER	DTVPLN	DTV0160	PLN

After Analysis

Results for: 8A NY BINGHAMTON	DTVPLN	DTV0152	PLN
HAAT 371.0 m, ATV ERP 7.9 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	962490	24362.0	
not affected by terrain losses	785455	21897.1	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	10176	284.8	
lost to ATV IX only	10176	284.8	
lost to all IX	10176	284.8	

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BMPEDT	20070125ACC	CP
8A PA JOHNSTOWN	BMPCDT	20080620AIX	CP
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.0648%

Worst case new IX 0.0648% Scenario 1

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Analysis of Interference to Affected Station 8

Analysis of current record		City/State	Application Ref. No.
Channel	Call		
08	WWCP-TV	JOHNSTOWN PA	BMPCDT -20080620AIX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WJLA-TV	WASHINGTON DC	224.1	PLN	DTVPLN -DTV0053
07	WJLA-TV	WASHINGTON DC	224.1	CP MOD	BMPCDT -20080620AIH
07	WTRF-TV	WHEELING WV	136.7	CP MOD	BMPCDT -20080620ALK
07	WTRF-TV	WHEELING WV	136.7	PLN	DTVPLN -DTV0108
08	WNJB	NEW BRUNSWICK NJ	396.3	PLN	DTVPLN -DTV0148
08	WICZ-TV	BINGHAMTON NY	339.9	LIC	BLCDT -20060320AFC
08	WICZ-TV	BINGHAMTON NY	339.9	PLN	DTVPLN -DTV0152
08	WJW	CLEVELAND OH	252.7	CP MOD	BMPCDT -20080620AHI
08	WJW	CLEVELAND OH	252.7	PLN	DTVPLN -DTV0153
08	WLIO	LIMA OH	425.8	CP MOD	BMPCDT -20060517ABE
08	WLIO	LIMA OH	425.8	PLN	DTVPLN -DTV0154
08	WGAL	LANCASTER PA	215.9	PLN	DTVPLN -DTV0160
08	WVNS-TV	LEWISBURG WV	299.6	CP MOD	BMPCDT -20040608ABO
08	WVNS-TV	LEWISBURG WV	299.6	PLN	DTVPLN -DTV0173
09	WUSA	WASHINGTON DC	224.1	PLN	DTVPLN -DTV0188
09	WUSA	WASHINGTON DC	224.1	CP MOD	BMPCDT -20080425ABL
09	WTOV-TV	STEUBENVILLE OH	125.9	CP MOD	BMPCDT -20080619ABG

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

(worst-case scenarios shown page 11 of 20)

**Cell Size = 0.5km**

09	WTOV-TV	STEUBENVILLE OH	125.9	PLN	DTVPLN	-DTVP0213
08	WGAL-DT	LANCASTER PA	215.9	APP	USERRECORD-01	

Total scenarios = 32

Result key: 97

Scenario 5 Affected station  
Before Analysis

Results for: 8A PA JOHNSTOWN BMPCDT 20080620AIX CP

HAAT 368.0 m, ATV ERP 9.3 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	2880503	25880.8
not affected by terrain losses	2642873	23004.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	23360	248.3
lost to ATV IX only	23360	248.3
lost to all IX	23360	248.3

Potential Interfering Stations Included in above Scenario 5

7A WV WHEELING	BMPCDT	20080620ALK	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A OH CLEVELAND	DTVPLN	DTVP0153	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	DTVPLN	DTVP0160	PLN

After Analysis

Results for: 8A PA JOHNSTOWN BMPCDT 20080620AIX CP

HAAT 368.0 m, ATV ERP 9.3 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	2880503	25880.8
not affected by terrain losses	2642873	23004.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	23847	273.0
lost to ATV IX only	23847	273.0
lost to all IX	23847	273.0

Potential Interfering Stations Included in above Scenario 5

7A WV WHEELING	BMPCDT	20080620ALK	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A OH CLEVELAND	DTVPLN	DTVP0153	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.0186%

Worst case new IX 0.0186% Scenario 5

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WWCP-TV	JOHNSTOWN PA	DTVPLN	-DTVP0159

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

(worst-case scenarios shown page 12 of 20)

**Cell Size = 0.5km**

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	224.1	PLN	DTVPLN	-DTVP0053
07	WJLA-TV	WASHINGTON DC	224.1	CP MOD	BMPCDT	-20080620AIH
07	WTRF-TV	WHEELING WV	136.7	CP MOD	BMPCDT	-20080620ALK
07	WTRF-TV	WHEELING WV	136.7	PLN	DTVPLN	-DTVP0108
08	WNJB	NEW BRUNSWICK NJ	396.3	PLN	DTVPLN	-DTVP0148
08	WICZ-TV	BINGHAMTON NY	339.9	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	339.9	PLN	DTVPLN	-DTVP0152
08	WJW	CLEVELAND OH	252.7	CP MOD	BMPCDT	-20080620AHI
08	WJW	CLEVELAND OH	252.7	PLN	DTVPLN	-DTVP0153
08	WLIO	LIMA OH	425.8	CP MOD	BMPCDT	-20060517ABE
08	WLIO	LIMA OH	425.8	PLN	DTVPLN	-DTVP0154
08	WGAL	LANCASTER PA	215.9	PLN	DTVPLN	-DTVP0160
08	WVNS-TV	LEWISBURG WV	299.6	CP MOD	BMPCDT	-20040608ABO
08	WVNS-TV	LEWISBURG WV	299.6	PLN	DTVPLN	-DTVP0173
09	WUSA	WASHINGTON DC	224.1	PLN	DTVPLN	-DTVP0188
09	WUSA	WASHINGTON DC	224.1	CP MOD	BMPCDT	-20080425ABL
09	WTOV-TV	STEUBENVILLE OH	125.9	CP MOD	BMPCDT	-20080619ABG
09	WTOV-TV	STEUBENVILLE OH	125.9	PLN	DTVPLN	-DTVP0213
08	WGAL-DT	LANCASTER PA	215.9	APP	USERRECORD-01	

Total scenarios = 32

Result key: 129

Scenario 5 Affected station 9  
Before Analysis

Results for: 8A PA JOHNSTOWN DTVPLN DTVP0159 PLN

HAAT 352.0 m, ATV ERP 6.5 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	2770891	23801.4
not affected by terrain losses	2556029	21219.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	30764	215.6
lost to ATV IX only	30764	215.6
lost to all IX	30764	215.6

Potential Interfering Stations Included in above Scenario 5

7A WV WHEELING	BMPCDT	20080620ALK	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A OH CLEVELAND	DTVPLN	DTVP0153	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	DTVPLN	DTVP0160	PLN

After Analysis

Results for: 8A PA JOHNSTOWN DTVPLN DTVP0159 PLN

HAAT 352.0 m, ATV ERP 6.5 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	2770891	23801.4
not affected by terrain losses	2556029	21219.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	31508	241.2
lost to ATV IX only	31508	241.2
lost to all IX	31508	241.2

Potential Interfering Stations Included in above Scenario 5

**Table 1 WGAL-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 13 of 20)

**Cell Size = 0.5km**

7A WV WHEELING	BMPCDT	20080620ALK	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A OH CLEVELAND	DTVPLN	DTVP0153	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.0295%

Worst case new IX 0.0295% Scenario 5

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	WUSA	WASHINGTON DC	DTVPLN	-DTVP0188

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WWCP-TV	JOHNSTOWN PA	224.1	CP MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	224.1	PLN	DTVPLN	-DTVP0159
08	WGAL	LANCASTER PA	126.8	PLN	DTVPLN	-DTVP0160
09	WSKY-TV	MANTEO NC	278.5	CP MOD	BMPCDT	-20080616AAG
09	WSKY-TV	MANTEO NC	278.2	PLN	DTVPLN	-DTVP0206
09	WTOV-TV	STEUBENVILLE OH	340.2	CP MOD	BMPCDT	-20080619ABG
09	WTOV-TV	STEUBENVILLE OH	340.2	PLN	DTVPLN	-DTVP0213
09	WBPH-TV	BETHLEHEM PA	227.6	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	227.6	PLN	DTVPLN	-DTVP0216
09	WBPH-TV	BETHLEHEM PA	227.6	CP	BPCDT	-20080619ALA
10	WHTM-TV	HARRISBURG PA	152.2	LIC	BLCDT	-20040812AAH
10	WHTM-TV	HARRISBURG PA	152.2	PLN	DTVPLN	-DTVP0286
10	WHTM-TV	HARRISBURG PA	152.2	CP	BPCDT	-20080620AGL
08	WGAL-DT	LANCASTER PA	126.8	APP	USERRECORD-01	

Total scenarios = 12

Result key: 157  
Scenario 1 Affected station 10  
Before Analysis

Results for:	9A DC WASHINGTON	DTVPLN	DTVP0188	PLN
HAAT	235.0 m, ATV ERP	13.6 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	7356014	26073.2		
not affected by terrain losses	7244804	24208.6		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	54190	779.4		
lost to ATV IX only	54190	779.4		
lost to all IX	54190	779.4		

Potential Interfering Stations Included in above Scenario 1

9A NC MANTEO	BMPCDT	20080616AAG	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC

**Table 1 WGAL-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 14 of 20)

**Cell Size = 0.5km**

10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	DTVPLN	DTVP0160	PLN

After Analysis

Results for:	9A DC WASHINGTON	DTVPLN	DTVP0188	PLN
HAAT	235.0 m, ATV ERP	13.6 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	7356014	26073.2		
not affected by terrain losses	7244804	24208.6		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	54231	780.8		
lost to ATV IX only	54231	780.8		
lost to all IX	54231	780.8		

Potential Interfering Stations Included in above Scenario 1

9A NC MANTEO	BMPCDT	20080616AAG	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.0006%

Worst case new IX 0.0006% Scenario 1

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	WUSA	WASHINGTON DC	BMPCDT	-20080425ABL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WWCP-TV	JOHNSTOWN PA	224.1	CP MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	224.1	PLN	DTVPLN	-DTVP0159
08	WGAL	LANCASTER PA	126.8	PLN	DTVPLN	-DTVP0160
09	WSKY-TV	MANTEO NC	278.5	CP MOD	BMPCDT	-20080616AAG
09	WSKY-TV	MANTEO NC	278.2	PLN	DTVPLN	-DTVP0206
09	WTOV-TV	STEUBENVILLE OH	340.2	CP MOD	BMPCDT	-20080619ABG
09	WTOV-TV	STEUBENVILLE OH	340.2	PLN	DTVPLN	-DTVP0213
09	WBPH-TV	BETHLEHEM PA	227.6	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	227.6	PLN	DTVPLN	-DTVP0216
09	WBPH-TV	BETHLEHEM PA	227.6	CP	BPCDT	-20080619ALA
10	WHTM-TV	HARRISBURG PA	152.2	LIC	BLCDT	-20040812AAH
10	WHTM-TV	HARRISBURG PA	152.2	PLN	DTVPLN	-DTVP0286
10	WHTM-TV	HARRISBURG PA	152.2	CP	BPCDT	-20080620AGL
08	WGAL-DT	LANCASTER PA	126.8	APP	USERRECORD-01	

Total scenarios = 12

Result key: 169  
Scenario 1 Affected station 11  
Before Analysis

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

(worst-case scenarios shown page 15 of 20)

**Cell Size = 0.5km**

Results for: 9A DC WASHINGTON BMPCDT 20080425ABL CP  
HAAT 235.0 m, ATV ERP 12.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7358988	26043.2
not affected by terrain losses	7250693	24163.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	54842	779.1
lost to ATV IX only	54842	779.1
lost to all IX	54842	779.1

Potential Interfering Stations Included in above Scenario 1

9A NC MANTEO	BMPCDT	20080616AAG	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	DTVPLN	DTVP0160	PLN

After Analysis

Results for: 9A DC WASHINGTON BMPCDT 20080425ABL CP  
HAAT 235.0 m, ATV ERP 12.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7358988	26043.2
not affected by terrain losses	7250693	24163.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	54883	781.8
lost to ATV IX only	54883	781.8
lost to all IX	54883	781.8

Potential Interfering Stations Included in above Scenario 1

9A NC MANTEO	BMPCDT	20080616AAG	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.0006%

Worst case new IX 0.0006% Scenario 1

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	WBPH-TV	BETHLEHEM PA	BLCDT	-20060609AAH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	124.4	CP MOD	BMPEDT	-20070125ACC
08	WNJB	NEW BRUNSWICK NJ	79.2	PLN	DTVPLN	-DTVP0148
08	WICZ-TV	BINGHAMTON NY	171.1	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	171.1	PLN	DTVPLN	-DTVP0152
08	WGAL	LANCASTER PA	116.0	PLN	DTVPLN	-DTVP0160
09	WEDN	NORWICH CT	294.2	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	294.2	PLN	DTVPLN	-DTVP0187

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

(worst-case scenarios shown page 16 of 20)

**Cell Size = 0.5km**

09	WUSA	WASHINGTON DC	227.6	PLN	DTVPLN	-DTVP0188
09	WUSA	WASHINGTON DC	227.6	CP MOD	BMPCDT	-20080425ABL
09	WMUR-TV	MANCHESTER NH	417.2	CP	BPCDT	-20080407ABS
09	WMUR-TV	MANCHESTER NH	417.3	PLN	DTVPLN	-DTVP0209
09	WVER	RUTLAND VT	394.0	LIC	BLEDT	-20050608AGC
09	WVER	RUTLAND VT	394.0	PLN	DTVPLN	-DTVP0229
10	WHTM-TV	HARRISBURG PA	130.7	LIC	BLCDT	-20040812AAH
10	WHTM-TV	HARRISBURG PA	130.7	PLN	DTVPLN	-DTVP0286
10	WHTM-TV	HARRISBURG PA	130.7	CP	BPCDT	-20080620AGL
08	WGAL-DT	LANCASTER PA	116.0	APP	USERRECORD-01	

Total scenarios = 8

Result key: 186  
Scenario 6 Affected station 12  
Before Analysis

Results for: 9A PA BETHLEHEM BLCDT 20060609AAH LIC  
HAAT 284.0 m, ATV ERP 3.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	6452704	18455.1
not affected by terrain losses	5881986	16737.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	644081	996.0
lost to ATV IX only	644081	996.0
lost to all IX	644081	996.0

Potential Interfering Stations Included in above Scenario 6

8A NJ NEW BRUNSWICK	DTVPLN	DTVP0148	PLN
9A CT NORWICH	BPEDT	20080619AFA	CP
9A DC WASHINGTON	BMPCDT	20080425ABL	CP
10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	DTVPLN	DTVP0160	PLN

After Analysis

Results for: 9A PA BETHLEHEM BLCDT 20060609AAH LIC  
HAAT 284.0 m, ATV ERP 3.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	6452704	18455.1
not affected by terrain losses	5881986	16737.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	644650	1001.4
lost to ATV IX only	644650	1001.4
lost to all IX	644650	1001.4

Potential Interfering Stations Included in above Scenario 6

8A NJ NEW BRUNSWICK	DTVPLN	DTVP0148	PLN
9A CT NORWICH	BPEDT	20080619AFA	CP
9A DC WASHINGTON	BMPCDT	20080425ABL	CP
10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.0109%

Worst case new IX 0.0109% Scenario 6

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**Table 1 WGAL-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 17 of 20)

**Cell Size = 0.5km**

Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	WBPH-TV	BETHLEHEM PA	DTVPLN	-DTVP0216

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	124.4	CP MOD	BMPEDT	-20070125ACC
08	WNJB	NEW BRUNSWICK NJ	79.2	PLN	DTVPLN	-DTVP0148
08	WICZ-TV	BINGHAMTON NY	171.1	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	171.1	PLN	DTVPLN	-DTVP0152
08	WGAL	LANCASTER PA	116.0	PLN	DTVPLN	-DTVP0160
09	WEDN	NORWICH CT	294.2	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	294.2	PLN	DTVPLN	-DTVP0187
09	WUSA	WASHINGTON DC	227.6	PLN	DTVPLN	-DTVP0188
09	WUSA	WASHINGTON DC	227.6	CP MOD	BMPCDT	-20080425ABL
09	WMUR-TV	MANCHESTER NH	417.2	CP	BPCDT	-20080407ABS
09	WMUR-TV	MANCHESTER NH	417.3	PLN	DTVPLN	-DTVP0209
09	WVER	RUTLAND VT	394.0	LIC	BLEDT	-20050608AGC
09	WVER	RUTLAND VT	394.0	PLN	DTVPLN	-DTVP0229
10	WHTM-TV	HARRISBURG PA	130.7	LIC	BLCDT	-20040812AAH
10	WHTM-TV	HARRISBURG PA	130.7	PLN	DTVPLN	-DTVP0286
10	WHTM-TV	HARRISBURG PA	130.7	CP	BPCDT	-20080620AGL
08	WGAL-DT	LANCASTER PA	116.0	APP	USERRECORD-01	

Total scenarios = 8

Result key: 194  
Scenario 6 Affected station 13  
Before Analysis

Results for:	9A PA BETHLEHEM	DTVPLN	DTVP0216	PLN
HAAT	284.0 m, ATV ERP	3.2 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	6452704	18455.1		
not affected by terrain losses	5881986	16737.9		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	644081	996.0		
lost to ATV IX only	644081	996.0		
lost to all IX	644081	996.0		

Potential Interfering Stations Included in above Scenario 6

8A NJ NEW BRUNSWICK	DTVPLN	DTVP0148	PLN
9A CT NORWICH	BPEDT	20080619AFA	CP
9A DC WASHINGTON	BMPCDT	20080425ABL	CP
10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	DTVPLN	DTVP0160	PLN

After Analysis

Results for:	9A PA BETHLEHEM	DTVPLN	DTVP0216	PLN
HAAT	284.0 m, ATV ERP	3.2 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	6452704	18455.1		
not affected by terrain losses	5881986	16737.9		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	644650	1001.4		
lost to ATV IX only	644650	1001.4		

**Table 1 WGAL-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 18 of 20)

**Cell Size = 0.5km**

lost to all IX 644650 1001.4

Potential Interfering Stations Included in above Scenario 6

8A NJ NEW BRUNSWICK	DTVPLN	DTVP0148	PLN
9A CT NORWICH	BPEDT	20080619AFA	CP
9A DC WASHINGTON	BMPCDT	20080425ABL	CP
10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.0109%

Worst case new IX 0.0109% Scenario 6

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	WBPH-TV	BETHLEHEM PA	BPCDT	-20080619ALA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	124.4	CP MOD	BMPEDT	-20070125ACC
08	WNJB	NEW BRUNSWICK NJ	79.2	PLN	DTVPLN	-DTVP0148
08	WICZ-TV	BINGHAMTON NY	171.1	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	171.1	PLN	DTVPLN	-DTVP0152
08	WGAL	LANCASTER PA	116.0	PLN	DTVPLN	-DTVP0160
09	WEDN	NORWICH CT	294.2	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	294.2	PLN	DTVPLN	-DTVP0187
09	WUSA	WASHINGTON DC	227.6	PLN	DTVPLN	-DTVP0188
09	WUSA	WASHINGTON DC	227.6	CP MOD	BMPCDT	-20080425ABL
09	WMUR-TV	MANCHESTER NH	417.2	CP	BPCDT	-20080407ABS
09	WMUR-TV	MANCHESTER NH	417.3	PLN	DTVPLN	-DTVP0209
09	WVER	RUTLAND VT	394.0	LIC	BLEDT	-20050608AGC
09	WVER	RUTLAND VT	394.0	PLN	DTVPLN	-DTVP0229
10	WHTM-TV	HARRISBURG PA	130.7	LIC	BLCDT	-20040812AAH
10	WHTM-TV	HARRISBURG PA	130.7	PLN	DTVPLN	-DTVP0286
10	WHTM-TV	HARRISBURG PA	130.7	CP	BPCDT	-20080620AGL
08	WGAL-DT	LANCASTER PA	116.0	APP	USERRECORD-01	

Result key: 222  
Scenario 26 Affected station 14  
Before Analysis

Results for:	9A PA BETHLEHEM	BPCDT	20080619ALA	CP
HAAT	284.0 m, ATV ERP	89.0 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	11214938	32638.7		
not affected by terrain losses	9630503	28553.2		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	1539460	1994.2		
lost to ATV IX only	1539460	1994.2		
lost to all IX	1539460	1994.2		

Potential Interfering Stations Included in above Scenario 26

8A NJ NEW BRUNSWICK	DTVPLN	DTVP0148	PLN
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**Table 1 WGAL-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 19 of 20)

**Cell Size = 0.5km**

9A CT NORWICH	BPEDT	20080619AFA	CP
9A DC WASHINGTON	DTVPLN	DTVP0188	PLN
9A VT RUTLAND	BLEDT	20050608AGC	LIC
10A PA HARRISBURG	DTVPLN	DTVP0286	PLN
8A PA LANCASTER	DTVPLN	DTVP0160	PLN

## After Analysis

Results for: 9A PA BETHLEHEM BPCDT 20080619ALA CP  
HAAT 284.0 m, ATV ERP 89.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	11214938	32638.7
not affected by terrain losses	9630503	28553.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1549598	2054.8
lost to ATV IX only	1549598	2054.8
lost to all IX	1549598	2054.8

Potential Interfering Stations Included in above Scenario 26

8A NJ NEW BRUNSWICK	DTVPLN	DTVP0148	PLN
9A CT NORWICH	BPEDT	20080619AFA	CP
9A DC WASHINGTON	DTVPLN	DTVP0188	PLN
9A VT RUTLAND	BLEDT	20050608AGC	LIC
10A PA HARRISBURG	DTVPLN	DTVP0286	PLN
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.1253%

Worst case new IX 0.1253% Scenario 26

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## Analysis of Interference to Affected Station 15

## Analysis of current record

Channel	Call	City/State	Application Ref. No.
08	WGAL-DT	LANCASTER PA	USERRECORD-01

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WJLA-TV	WASHINGTON DC	126.8	PLN	DTVPLN -DTVP0053
07	WJLA-TV	WASHINGTON DC	126.8	CP MOD	BMPEDT -20080620AIH
08	WNJB	NEW BRUNSWICK NJ	236.8	CP MOD	BMPEDT -20070125ACC
08	WNJB	NEW BRUNSWICK NJ	190.7	PLN	DTVPLN -DTVP0148
08	WICZ-TV	BINGHAMTON NY	231.7	LIC	BLCDT -20060320AFC
08	WICZ-TV	BINGHAMTON NY	231.7	PLN	DTVPLN -DTVP0152
08	WWCP-TV	JOHNSTOWN PA	215.9	CP MOD	BMPEDT -20080620AIX
08	WWCP-TV	JOHNSTOWN PA	215.9	PLN	DTVPLN -DTVP0159
09	WUSA	WASHINGTON DC	126.8	PLN	DTVPLN -DTVP0188
09	WUSA	WASHINGTON DC	126.8	CP MOD	BMPEDT -20080425ABL
09	WBPH-TV	BETHLEHEM PA	116.0	LIC	BLCDT -20060609AAH
09	WBPH-TV	BETHLEHEM PA	116.0	PLN	DTVPLN -DTVP0216
09	WBPH-TV	BETHLEHEM PA	116.0	CP	BPCDT -20080619ALA

Total scenarios = 96

Result key: 288

Scenario 44 Affected station 15

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

(worst-case scenarios shown page 20 of 20)

**Cell Size = 0.5km**

## Before Analysis

Results for: 8A PA LANCASTER	USERRECORD01	APP
HAAT 419.0 m, ATV ERP 8.1 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	5562302	30936.8
not affected by terrain losses	4826235	27373.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	196022	673.2
lost to ATV IX only	196022	673.2
lost to all IX	196022	673.2

Potential Interfering Stations Included in above Scenario 44

7A DC WASHINGTON	DTVPLN	DTVP0053	PLN
8A NJ NEW BRUNSWICK	DTVPLN	DTVP0148	PLN
8A NY BINGHAMTON	DTVPLN	DTVP0152	PLN
8A PA JOHNSTOWN	DTVPLN	DTVP0159	PLN
9A DC WASHINGTON	DTVPLN	DTVP0188	PLN
9A PA BETHLEHEM	DTVPLN	DTVP0216	PLN

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SECTION III-D - DTV Engineering	
<b>Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.</b>	
<p><b>Pre-Transition Certification Checklist:</b> An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to change pre-transition facilities. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.</p> <p><b>Post-Transition Expedited Processing.</b> An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed within 45 days of the effective date of Section 73.616 of the rules adopted in the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91.</p>	
1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:	
(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	<input checked="" type="radio"/> Yes <input type="radio"/> No
(b) It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(c) It will operate a pre-transition facility with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(d) It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B").	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
(e) It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Applicant must <b>submit the Exhibit</b> called for in Item 13.	<input checked="" type="radio"/> Yes <input type="radio"/> No
3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community.	<input checked="" type="radio"/> Yes <input type="radio"/> No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable.	<input checked="" type="radio"/> Yes <input type="radio"/> No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	<input checked="" type="radio"/> Yes <input type="radio"/> No

SECTION III-D - DTV Engineering	
<b>TECHNICAL SPECIFICATIONS</b>	
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.	
<b>TECH BOX</b>	
1.	Channel Number: DTV 8 Analog TV, if any 8
2.	Zone: <input checked="" type="radio"/> I <input type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 40 Minutes 2 Seconds 4 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 76 Minutes 37 Seconds 8 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 1031756 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 317.6 meters
6.	Overall Tower Height Above Ground Level: 250.9 meters
7.	Height of Radiation Center Above Ground Level: 239.3 meters
8.	Height of Radiation Center Above Average Terrain : 419 meters
9.	Maximum Effective Radiated Power (average power): 8.1 kW



10.	Antenna Specifications:	
	a. Manufacturer RCA    Model TW-9A8-R	
	b. Electrical Beam Tilt: 0.5 degrees <input type="checkbox"/> Not Applicable	
	c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). [Exhibit 43]	
	d. Polarization: <input checked="" type="radio"/> Horizontal <input type="radio"/> Circular <input type="radio"/> Elliptical	
	e. Directional Antenna Relative Field Values: <input checked="" type="checkbox"/> Not applicable (Nondirectional)	
	[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.] [Relative Field Values]	
	If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. <b>Exhibit required.</b> [Exhibit 44]	
11.	Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if <b>Certification Checklist</b> Items 1(a), (b), or (c) are answered "No.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616?	<input checked="" type="radio"/> Yes <input type="radio"/> No [Exhibit 45]
	If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.	
12.	If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if <b>Certification Checklist</b> item 3 is answered "No.")	[Exhibit 46]
13.	<b>Environmental Protection Act. Submit in an Exhibit</b> the following: If <b>Certification Checklist</b> Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.  By checking "Yes" to <b>Certification Checklist</b> Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.  If <b>Certification Checklist</b> Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.	[Exhibit 47]
<b>PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.</b>		

### SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name JOSEPH M. DAVIS, P.E.	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature	Date 5/27/2009	
Mailing Address CHESAPEAKE RF CONSULTANTS, LLC 11993 KAHNS ROAD		
City MANASSAS	State or Country (if foreign address) VA	Zip Code 20112 -
Telephone Number (include area code) 7036509600	E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM	