

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 1 of 24)

Amendment Jan, 2010

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

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 01-14-2010 Time: 10:49:04

Record Selected for Analysis

WGAL BPCDT -20100111AER LANCASTER PA US  
Channel 08 ERP 32.2 kW HAAT 00419 m RCAMSL 00556 m  
Latitude 040-02- 4 Longitude 0076-37- 8  
Status APP Zone 1 Border C  
Last update 00000000 Cutoff date 20100111 Docket  
Comments  
Applicant WGAL HEARST TELEVISION INC.

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility does not meet maximum height/power limits  
Channel 8 ERP = 32.20 HAAT = 419.

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	32.200	423.8	111.7
45.0	32.200	443.3	113.4
90.0	32.200	439.0	113.1
135.0	32.200	410.9	110.5
180.0	32.200	354.3	105.9
225.0	32.200	403.1	109.8
270.0	32.200	414.4	110.8
315.0	32.200	458.1	114.7

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 24)

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Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Call	City/State	ARN
08	WGAL	LANCASTER PA	BPCDT 20100111AER

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	126.8	CP MOD	BMPCDT	-20080620AIH
07	WJLA-TV	WASHINGTON DC	126.8	PLN	DTVPLN	-DTVP0053
07	W07BV	WILKESBARRE/PITTSTON PA	145.9	APP	BDFCDVA	-20070607ACJ
08	WNJB	NEW BRUNSWICK NJ	190.7	PLN	DTVPLN	-DTVP0143
08	WNJB	NEW BRUNSWICK NJ	190.7	CP MOD	BMPEDT	-20090729ACO
08	WICZ-TV	BINGHAMTON NY	231.7	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	231.7	PLN	DTVPLN	-DTVP0148
08	WWCP-TV	JOHNSTOWN PA	215.9	CP MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	215.9	PLN	DTVPLN	-DTVP0155
09	WUSA	WASHINGTON DC	126.8	CP MOD	BMPCDT	-20080425ABL
09	WUSA	WASHINGTON DC	126.8	PLN	DTVPLN	-DTVP0182
09	WBPH-TV	BETHLEHEM PA	116.5	APP	BMPCDT	-20100105AAH
09	WBPH-TV	BETHLEHEM PA	116.0	PLN	DTVPLN	-DTVP0209
09	WBPH-TV	BETHLEHEM PA	116.0	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	116.0	CP	BPCDT	-20080619ALA
08	WNJB	NEW BRUNSWICK NJ	190.7	APP	USERRECORD-01	

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Analysis of Interference to Affected Station 1

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

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	-DTVP0085
07	WABC-TV	NEW YORK NY	331.1	CP	BPCDT	-20080529AJT
07	WABC-TV	NEW YORK NY	326.8	PLN	DTVPLN	-DTVP0087
07	WHRE	VIRGINIA BEACH VA	243.4	CP MOD	BMPCDT	-20080821ADP
07	WHRE	VIRGINIA BEACH VA	243.4	PLN	DTVPLN	-DTVP0102
07	WTRF-TV	WHEELING WV	338.3	CP MOD	BMPCDT	-20080620ALK
07	WTRF-TV	WHEELING WV	338.3	PLN	DTVPLN	-DTVP0105
08	WWCP-TV	JOHNSTOWN PA	224.1	CP MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	224.1	PLN	DTVPLN	-DTVP0155
08	WGAL	LANCASTER PA	126.8	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	126.8	PLN	DTVPLN	-DTVP0156
07	WABC-TV	NEW YORK NY	331.1	APP	USERRECORD-02	

Total scenarios = 24

Result key: 1

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 3 of 24)

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Scenario	1	Affected station	1
Before Analysis			
Results for:	7A DC WASHINGTON	BMPCDT	20080620AIH CP
HAAT	235.0 m, ATV ERP	30.0 kW	
	POPULATION	AREA (sq km)	
within Noise Limited Contour	7722433	29967.7	
not affected by terrain losses	7465256	27707.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	37295	524.1	
lost to ATV IX only	37295	524.1	
lost to all IX	37295	524.1	

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A NY NEW YORK	BPCDT	20080529AJT	CP
7A VA VIRGINIA BEACH	BMPCDT	20080821ADP	CP
7A WV WHEELING	BMPCDT	20080620ALK	CP
8A PA LANCASTER	DTVPLN	DTVP0156	PLN

After Analysis

Results for:	7A DC WASHINGTON	BMPCDT	20080620AIH CP
HAAT	235.0 m, ATV ERP	30.0 kW	
	POPULATION	AREA (sq km)	
within Noise Limited Contour	7722433	29967.7	
not affected by terrain losses	7465256	27707.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	44856	600.1	
lost to ATV IX only	44856	600.1	
lost to all IX	44856	600.1	

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A NY NEW YORK	BPCDT	20080529AJT	CP
7A VA VIRGINIA BEACH	BMPCDT	20080821ADP	CP
7A WV WHEELING	BMPCDT	20080620ALK	CP
8A PA LANCASTER	BPCDT	20100111AER	APP

Percent new IX = 0.1018%

Worst case new IX 0.1018% Scenario 1

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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	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	-DTVP0085
07	WABC-TV	NEW YORK NY	331.1	CP	BPCDT	-20080529AJT
07	WABC-TV	NEW YORK NY	326.8	PLN	DTVPLN	-DTVP0087

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07	WHRE	VIRGINIA BEACH VA	243.4	CP	MOD	BMPCDT	-20080821ADP
07	WHRE	VIRGINIA BEACH VA	243.4	PLN		DTVPLN	-DTVP0102
07	WTRF-TV	WHEELING WV	338.3	CP	MOD	BMPCDT	-20080620ALK
07	WTRF-TV	WHEELING WV	338.3	PLN		DTVPLN	-DTVP0105
08	WWCP-TV	JOHNSTOWN PA	224.1	CP	MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	224.1	PLN		DTVPLN	-DTVP0155
08	WGAL	LANCASTER PA	126.8	APP		BPCDT	-20100111AER
08	WGAL	LANCASTER PA	126.8	PLN		DTVPLN	-DTVP0156
07	WABC-TV	NEW YORK NY	331.1	APP		USERRECORD-02	

Total scenarios = 24

Result key: 25

Scenario 1 Affected station 2  
Before 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	7351660	26015.6		
not affected by terrain losses	7256667	24335.4		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	33906	400.1		
lost to ATV IX only	33906	400.1		
lost to all IX	33906	400.1		

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A NY NEW YORK	BPCDT	20080529AJT	CP
7A VA VIRGINIA BEACH	BMPCDT	20080821ADP	CP
7A WV WHEELING	BMPCDT	20080620ALK	CP
8A PA LANCASTER	DTVPLN	DTVP0156	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	7351660	26015.6		
not affected by terrain losses	7256667	24335.4		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	36424	452.1		
lost to ATV IX only	36424	452.1		
lost to all IX	36424	452.1		

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A NY NEW YORK	BPCDT	20080529AJT	CP
7A VA VIRGINIA BEACH	BMPCDT	20080821ADP	CP
7A WV WHEELING	BMPCDT	20080620ALK	CP
8A PA LANCASTER	BPCDT	20100111AER	APP

Percent new IX = 0.0349%

Worst case new IX 0.0349% Scenario 1

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**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
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	CP MOD	BMPCDT	-20080620AIH
07	WJLA-TV	WASHINGTON DC	271.9	PLN	DTVPLN	-DTVP0053
07	WXXA-TV	ALBANY NY	218.1	LIC	BLCDT	-20051222AAQ
07	WXXA-TV	ALBANY NY	218.1	PLN	DTVPLN	-DTVP0084
07	WBNG-TV	BINGHAMTON NY	96.2	LIC	BLCDT	-20060329ACH
07	WBNG-TV	BINGHAMTON NY	96.2	PLN	DTVPLN	-DTVP0085
07	WVNY-TV	CARTHAGE NY	306.4	CP MOD	BMPCDT	-20080620AIE
07	WVNY-TV	CARTHAGE NY	306.4	PLN	DTVPLN	-DTVP0086
07	WABC-TV	NEW YORK NY	161.8	CP	BPCDT	-20080529AJT
07	WABC-TV	NEW YORK NY	161.0	PLN	DTVPLN	-DTVP0087
07	WNGS	SPRINGVILLE NY	281.4	CP	BPCDT	-20080328AFD
07	WNGS	SPRINGVILLE NY	281.4	PLN	DTVPLN	-DTVP0088
08	WNJB	NEW BRUNSWICK NJ	127.8	PLN	DTVPLN	-DTVP0143
08	WNJB	NEW BRUNSWICK NJ	127.8	CP MOD	BMPEDT	-20090729ACO
08	WICZ-TV	BINGHAMTON NY	95.9	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	95.9	PLN	DTVPLN	-DTVP0148
08	WGAL	LANCASTER PA	145.9	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	145.9	PLN	DTVPLN	-DTVP0156
08	WNJB	NEW BRUNSWICK NJ	127.8	APP	USERRECORD-01	
07	WABC-TV	NEW YORK NY	161.8	APP	USERRECORD-02	

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	DTVPLN	-DTVP0143

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	-DTVP0084
07	WBNG-TV	BINGHAMTON NY	200.3	LIC	BLCDT	-20060329ACH
07	WBNG-TV	BINGHAMTON NY	200.3	PLN	DTVPLN	-DTVP0085
07	WABC-TV	NEW YORK NY	45.9	CP	BPCDT	-20080529AJT
07	WABC-TV	NEW YORK NY	42.6	PLN	DTVPLN	-DTVP0087
08	WICZ-TV	BINGHAMTON NY	199.7	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	199.7	PLN	DTVPLN	-DTVP0148
08	WWCP-TV	JOHNSTOWN PA	396.3	CP MOD	BMPEDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	396.3	PLN	DTVPLN	-DTVP0155
08	WGAL	LANCASTER PA	190.7	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	190.7	PLN	DTVPLN	-DTVP0156
09	WEDN	NORWICH CT	219.8	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	219.8	PLN	DTVPLN	-DTVP0181
09	WBPH-TV	BETHLEHEM PA	78.8	APP	BMPCDT	-20100105AAH

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
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09	WBPH-TV	BETHLEHEM PA	79.2	PLN	DTVPLN	-DTVP0209
09	WBPH-TV	BETHLEHEM PA	79.2	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	79.2	CP	BPCDT	-20080619ALA
07	WABC-TV	NEW YORK NY	45.9	APP	USERRECORD-02	

Total scenarios = 24

Result key: 66

Scenario 18 Affected station 4  
Before Analysis

Results for:	8A NJ NEW BRUNSWICK	DTVPLN	DTVP0143	PLN
HAAT	212.0 m, ATV ERP	20.2 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	19448063	24839.8		
not affected by terrain losses	18907218	22512.9		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	5696398	2970.5		
lost to ATV IX only	5696398	2970.5		
lost to all IX	5696398	2970.5		

Potential Interfering Stations Included in above Scenario 18

7A NY NEW YORK	USERRECORD02	APP
8A NY BINGHAMTON	BLCDT	20060320AFC
9A PA BETHLEHEM	DTVPLN	DTVP0209
8A PA LANCASTER	DTVPLN	DTVP0156

After Analysis

Results for:	8A NJ NEW BRUNSWICK	DTVPLN	DTVP0143	PLN
HAAT	212.0 m, ATV ERP	20.2 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	19448063	24839.8		
not affected by terrain losses	18907218	22512.9		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	6131268	3742.2		
lost to ATV IX only	6131268	3742.2		
lost to all IX	6131268	3742.2		

Potential Interfering Stations Included in above Scenario 18

7A NY NEW YORK	USERRECORD02	APP
8A NY BINGHAMTON	BLCDT	20060320AFC
9A PA BETHLEHEM	DTVPLN	DTVP0209
8A PA LANCASTER	BPCDT	20100111AER

The following station failed the de minimis interference criteria.

8D PA LANCASTER	BPCDT	20100111AER
ERP	32.20 kW HAAT	419.0 m RCAMSL
Antenna CDB	9999999999999999	556.0 m

Due to interference to the following station and scenario: 18

8D NJ NEW BRUNSWICK	DTVPLN	DTVP0143
ERP	20.20 kW HAAT	212.0 m RCAMSL
Antenna CDB	00000000032754	278.0 m

Percent new interference from proposal: 3.2918 to DTVPLN DTVP0143

Worst case new IX 3.2918% Scenario 18

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**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 7 of 24)

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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	BMPEDT	-20090729ACO

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	-DTVP0084
07	WBNG-TV	BINGHAMTON NY	200.3	LIC	BLCDT	-20060329ACH
07	WBNG-TV	BINGHAMTON NY	200.3	PLN	DTVPLN	-DTVP0085
07	WABC-TV	NEW YORK NY	45.9	CP	BPCDT	-20080529AJT
07	WABC-TV	NEW YORK NY	42.6	PLN	DTVPLN	-DTVP0087
08	WICZ-TV	BINGHAMTON NY	199.7	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	199.7	PLN	DTVPLN	-DTVP0148
08	WWCP-TV	JOHNSTOWN PA	396.3	CP MOD	BMPEDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	396.3	PLN	DTVPLN	-DTVP0155
08	WGAL	LANCASTER PA	190.7	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	190.7	PLN	DTVPLN	-DTVP0156
09	WEDN	NORWICH CT	219.8	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	219.8	PLN	DTVPLN	-DTVP0181
09	WBPH-TV	BETHLEHEM PA	78.8	APP	BMPEDT	-20100105AAH
09	WBPH-TV	BETHLEHEM PA	79.2	PLN	DTVPLN	-DTVP0209
09	WBPH-TV	BETHLEHEM PA	79.2	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	79.2	CP	BPCDT	-20080619ALA
07	WABC-TV	NEW YORK NY	45.9	APP	USERRECORD-02	

Total scenarios = 24

Result key: 90  
Scenario 18 Affected station 5  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20090729ACO CP  
HAAT 215.0 m, ATV ERP 17.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5961919	2845.0
lost to ATV IX only	5961919	2845.0
lost to all IX	5961919	2845.0

Potential Interfering Stations Included in above Scenario 18

	USERRECORD02	APP
7A NY NEW YORK	BLCDT	20060320AFC
8A NY BINGHAMTON	DTVPLN	DTVP0209
9A PA BETHLEHEM	DTVPLN	DTVP0156
8A PA LANCASTER	DTVPLN	DTVP0156

After Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20090729ACO CP  
HAAT 215.0 m, ATV ERP 17.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0

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lost to NTSC IX	0	0.0
lost to additional IX by ATV	6510362	3740.1
lost to ATV IX only	6510362	3740.1
lost to all IX	6510362	3740.1

Potential Interfering Stations Included in above Scenario 18

	USERRECORD02	APP
7A NY NEW YORK	BLCDT	20060320AFC
8A NY BINGHAMTON	DTVPLN	DTVP0209
9A PA BETHLEHEM	DTVPLN	DTVP0209
8A PA LANCASTER	BPCDT	20100111AER

The following station failed the de minimis interference criteria.

8D PA LANCASTER BPCDT 20100111AER  
ERP 32.20 kW HAAT 419.0 m RCAMSL 556.0 m  
Antenna CDB 9999999999999999

Due to interference to the following station and scenario: 18

8D NJ NEW BRUNSWICK BMPEDT 20090729ACO  
ERP 17.90 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000094321

Percent new interference from proposal: 4.2916 to BMPEDT 20090729ACO

Worst case new IX 4.2916% Scenario 18

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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	-DTVP0084
07	WBNG-TV	BINGHAMTON NY	0.7	LIC	BLCDT	-20060329ACH
07	WBNG-TV	BINGHAMTON NY	0.7	PLN	DTVPLN	-DTVP0085
07	WWNY-TV	CARTHAGE NY	211.7	CP MOD	BMPEDT	-20080620AIE
07	WWNY-TV	CARTHAGE NY	211.7	PLN	DTVPLN	-DTVP0086
07	WABC-TV	NEW YORK NY	218.6	CP	BPCDT	-20080529AJT
07	WABC-TV	NEW YORK NY	219.6	PLN	DTVPLN	-DTVP0087
08	WNJB	NEW BRUNSWICK NJ	199.7	PLN	DTVPLN	-DTVP0143
08	WNJB	NEW BRUNSWICK NJ	199.7	CP MOD	BMPEDT	-20090729ACO
08	WWCP-TV	JOHNSTOWN PA	339.9	CP MOD	BMPEDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	339.9	PLN	DTVPLN	-DTVP0155
08	WGAL	LANCASTER PA	231.7	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	231.7	PLN	DTVPLN	-DTVP0156
09	WBPH-TV	BETHLEHEM PA	170.9	APP	BMPEDT	-20100105AAH
09	WBPH-TV	BETHLEHEM PA	171.1	PLN	DTVPLN	-DTVP0209
09	WBPH-TV	BETHLEHEM PA	171.1	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	171.1	CP	BPCDT	-20080619ALA
08	WNJB	NEW BRUNSWICK NJ	199.7	APP	USERRECORD-01	
07	WABC-TV	NEW YORK NY	218.6	APP	USERRECORD-02	

Total scenarios = 6

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
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Result key: 98  
Scenario 2 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	962229	24331.0
not affected by terrain losses	762023	21627.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10186	327.9
lost to ATV IX only	10186	327.9
lost to all IX	10186	327.9

Potential Interfering Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BMPEDT	20090729ACO	CP
8A PA LANCASTER	DTVPLN	DTVP0156	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	962229	24331.0
not affected by terrain losses	762023	21627.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	12500	403.9
lost to ATV IX only	12500	403.9
lost to all IX	12500	403.9

Potential Interfering Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BMPEDT	20090729ACO	CP
8A PA LANCASTER	BPCDT	20100111AER	APP

Percent new IX = 0.3078%

Worst case new IX 0.3078% Scenario 2

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WICZ-TV	BINGHAMTON NY	DTVPLN	-DTVP0148

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	-DTVP0084
07	WBNG-TV	BINGHAMTON NY	0.7	LIC	BLCDT	-20060329ACH
07	WBNG-TV	BINGHAMTON NY	0.7	PLN	DTVPLN	-DTVP0085
07	WWNY-TV	CARTHAGE NY	211.7	CP MOD	BMPEDT	-20080620AIE
07	WWNY-TV	CARTHAGE NY	211.7	PLN	DTVPLN	-DTVP0086
07	WABC-TV	NEW YORK NY	218.6	CP	BPCDT	-20080529AJT

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 10 of 24)

Amendment Jan, 2010

07	WABC-TV	NEW YORK NY	219.6	PLN	DTVPLN	-DTVP0087
08	WNJB	NEW BRUNSWICK NJ	199.7	PLN	DTVPLN	-DTVP0143
08	WNJB	NEW BRUNSWICK NJ	199.7	CP MOD	BMPEDT	-20090729ACO
08	WWCP-TV	JOHNSTOWN PA	339.9	CP MOD	BMPEDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	339.9	PLN	DTVPLN	-DTVP0155
08	WGAL	LANCASTER PA	231.7	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	231.7	PLN	DTVPLN	-DTVP0156
09	WBPH-TV	BETHLEHEM PA	170.9	APP	BMPEDT	-20100105AAH
09	WBPH-TV	BETHLEHEM PA	171.1	PLN	DTVPLN	-DTVP0209
09	WBPH-TV	BETHLEHEM PA	171.1	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	171.1	CP	BPCDT	-20080619ALA
08	WNJB	NEW BRUNSWICK NJ	199.7	APP	USERRECORD-01	
07	WABC-TV	NEW YORK NY	218.6	APP	USERRECORD-02	

Total scenarios = 6

Result key: 104  
Scenario 2 Affected station 7  
Before Analysis

Results for: 8A NY BINGHAMTON DTVPLN DTVP0148 PLN  
HAAT 371.0 m, ATV ERP 7.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	962229	24331.0
not affected by terrain losses	762023	21627.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10186	327.9
lost to ATV IX only	10186	327.9
lost to all IX	10186	327.9

Potential Interfering Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BMPEDT	20090729ACO	CP
8A PA LANCASTER	DTVPLN	DTVP0156	PLN

After Analysis

Results for: 8A NY BINGHAMTON DTVPLN DTVP0148 PLN  
HAAT 371.0 m, ATV ERP 7.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	962229	24331.0
not affected by terrain losses	762023	21627.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	12500	403.9
lost to ATV IX only	12500	403.9
lost to all IX	12500	403.9

Potential Interfering Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BMPEDT	20090729ACO	CP
8A PA LANCASTER	BPCDT	20100111AER	APP

Percent new IX = 0.3078%

Worst case new IX 0.3078% Scenario 2

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Analysis of Interference to Affected Station 8

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 11 of 24)

Amendment Jan, 2010

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
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	CP MOD	BMPCDT	-20080620AIX
07	WJLA-TV	WASHINGTON DC	224.1	PLN	DTVPLN	-DTVP0053
07	WTRF-TV	WHEELING WV	136.7	CP MOD	BMPCDT	-20080620ALK
07	WTRF-TV	WHEELING WV	136.7	PLN	DTVPLN	-DTVP0105
08	WNJB	NEW BRUNSWICK NJ	396.3	PLN	DTVPLN	-DTVP0143
08	WNJB	NEW BRUNSWICK NJ	396.3	CP MOD	BMPCDT	-20090729ACO
08	WICZ-TV	BINGHAMTON NY	339.9	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	339.9	PLN	DTVPLN	-DTVP0148
08	WJW	CLEVELAND OH	252.7	CP MOD	BMPCDT	-20080620AHI
08	WJW	CLEVELAND OH	252.7	PLN	DTVPLN	-DTVP0149
08	WLIO	LIMA OH	425.8	CP MOD	BMPCDT	-20060517ABE
08	WLIO	LIMA OH	425.8	PLN	DTVPLN	-DTVP0150
08	WGAL	LANCASTER PA	215.9	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	215.9	PLN	DTVPLN	-DTVP0156
08	WVNS-TV	LEWISBURG WV	299.6	CP MOD	BMPCDT	-20040608ABO
08	WVNS-TV	LEWISBURG WV	299.6	PLN	DTVPLN	-DTVP0167
09	WUSA	WASHINGTON DC	224.1	CP MOD	BMPCDT	-20080425ABL
09	WUSA	WASHINGTON DC	224.1	PLN	DTVPLN	-DTVP0182
09	WTOV-TV	STEUBENVILLE OH	125.9	CP MOD	BMPCDT	-20080619ABG
09	WTOV-TV	STEUBENVILLE OH	125.9	PLN	DTVPLN	-DTVP0206
08	WNJB	NEW BRUNSWICK NJ	396.3	APP	USERRECORD-01	

Total scenarios = 32

Result key: 113  
Scenario 5 Affected station 8  
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	2879495	25889.7
not affected by terrain losses	2625311	22984.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	19597	209.0
lost to ATV IX only	19597	209.0
lost to all IX	19597	209.0

Potential Interfering Stations Included in above Scenario 5

7A WV WHEELING	BMPCDT	20080620ALK	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A OH CLEVELAND	DTVPLN	DTVP0149	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	DTVPLN	DTVP0156	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	2879495	25889.7

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 12 of 24)

Amendment Jan, 2010

not affected by terrain losses	2625311	22984.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	22198	369.7
lost to ATV IX only	22198	369.7
lost to all IX	22198	369.7

Potential Interfering Stations Included in above Scenario 5

7A WV WHEELING	BMPCDT	20080620ALK	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A OH CLEVELAND	DTVPLN	DTVP0149	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	BPCDT	20100111AER	APP

Percent new IX = 0.0998%

Worst case new IX 0.0998% 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	-DTVP0155

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	224.1	CP MOD	BMPCDT	-20080620AIX
07	WJLA-TV	WASHINGTON DC	224.1	PLN	DTVPLN	-DTVP0053
07	WTRF-TV	WHEELING WV	136.7	CP MOD	BMPCDT	-20080620ALK
07	WTRF-TV	WHEELING WV	136.7	PLN	DTVPLN	-DTVP0105
08	WNJB	NEW BRUNSWICK NJ	396.3	PLN	DTVPLN	-DTVP0143
08	WNJB	NEW BRUNSWICK NJ	396.3	CP MOD	BMPCDT	-20090729ACO
08	WICZ-TV	BINGHAMTON NY	339.9	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	339.9	PLN	DTVPLN	-DTVP0148
08	WJW	CLEVELAND OH	252.7	CP MOD	BMPCDT	-20080620AHI
08	WJW	CLEVELAND OH	252.7	PLN	DTVPLN	-DTVP0149
08	WLIO	LIMA OH	425.8	CP MOD	BMPCDT	-20060517ABE
08	WLIO	LIMA OH	425.8	PLN	DTVPLN	-DTVP0150
08	WGAL	LANCASTER PA	215.9	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	215.9	PLN	DTVPLN	-DTVP0156
08	WVNS-TV	LEWISBURG WV	299.6	CP MOD	BMPCDT	-20040608ABO
08	WVNS-TV	LEWISBURG WV	299.6	PLN	DTVPLN	-DTVP0167
09	WUSA	WASHINGTON DC	224.1	CP MOD	BMPCDT	-20080425ABL
09	WUSA	WASHINGTON DC	224.1	PLN	DTVPLN	-DTVP0182
09	WTOV-TV	STEUBENVILLE OH	125.9	CP MOD	BMPCDT	-20080619ABG
09	WTOV-TV	STEUBENVILLE OH	125.9	PLN	DTVPLN	-DTVP0206
08	WNJB	NEW BRUNSWICK NJ	396.3	APP	USERRECORD-01	

Total scenarios = 8

Result key: 145  
Scenario 5 Affected station 9  
Before Analysis

Results for: 8A PA JOHNSTOWN DTVPLN DTVP0155 PLN  
HAAT 352.0 m, ATV ERP 6.5 kW

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 13 of 24)

Amendment Jan, 2010

	POPULATION	AREA (sq km)
within Noise Limited Contour	2769479	23804.9
not affected by terrain losses	2556204	21140.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	25589	196.9
lost to ATV IX only	25589	196.9
lost to all IX	25589	196.9

Potential Interfering Stations Included in above Scenario 5

7A WV WHEELING	BMPCDT	20080620ALK	CP
8A OH CLEVELAND	DTVPLN	DTVP0149	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	DTVPLN	DTVP0156	PLN

After Analysis

Results for: 8A PA JOHNSTOWN DTVPLN DTVP0155 PLN  
HAAT 352.0 m, ATV ERP 6.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2769479	23804.9
not affected by terrain losses	2556204	21140.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	42725	385.8
lost to ATV IX only	42725	385.8
lost to all IX	42725	385.8

Potential Interfering Stations Included in above Scenario 5

7A WV WHEELING	BMPCDT	20080620ALK	CP
8A OH CLEVELAND	DTVPLN	DTVP0149	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	BPCDT	20100111AER	APP

The following station failed the de minimis interference criteria.

8D PA LANCASTER BPCDT 20100111AER  
ERP 32.20 kW HAAT 419.0 m RCAMSL 556.0 m  
Antenna CDB 999999999999999

Due to interference to the following station and scenario: 5  
8D PA JOHNSTOWN DTVPLN DTVP0155  
ERP 6.50 kW HAAT 352.0 m RCAMSL 953.0 m  
Antenna CDB 00000000070335

Percent new interference from proposal: 0.6771 to DTVPLN DTVP0155

Worst case new IX 0.6771% 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	BMPCDT	-20080425ABL

Stations Potentially Affecting This Station

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 14 of 24)

Amendment Jan, 2010

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	-DTVP0155
08	WGAL	LANCASTER PA	126.8	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	126.8	PLN	DTVPLN	-DTVP0156
09	WSKY-TV	MANTEO NC	278.2	PLN	DTVPLN	-DTVP0200
09	WSKY-TV	MANTEO NC	278.5	CP MOD	BMPCDT	-20080616AAG
09	WTOV-TV	STEUBENVILLE OH	340.2	CP MOD	BMPCDT	-20080619ABG
09	WTOV-TV	STEUBENVILLE OH	340.2	PLN	DTVPLN	-DTVP0206
09	WBPH-TV	BETHLEHEM PA	228.2	APP	BMPCDT	-20100105AAH
09	WBPH-TV	BETHLEHEM PA	227.6	PLN	DTVPLN	-DTVP0209
09	WBPH-TV	BETHLEHEM PA	227.6	LIC	BLCDT	-20060609AAH
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	-DTVP0278
10	WHTM-TV	HARRISBURG PA	152.2	CP	BPCDT	-20080620AGL

Total scenarios = 16

Result key: 155  
Scenario 7 Affected station 10  
Before 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	7353356	25990.7
not affected by terrain losses	7250428	24214.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	50661	792.1
lost to ATV IX only	50661	792.1
lost to all IX	50661	792.1

Potential Interfering Stations Included in above Scenario 7

9A NC MANTEO	BMPCDT	20080616AAG	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
9A PA BETHLEHEM	DTVPLN	DTVP0209	PLN
10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	DTVPLN	DTVP0156	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	7353356	25990.7
not affected by terrain losses	7250428	24214.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	51807	820.1
lost to ATV IX only	51807	820.1
lost to all IX	51807	820.1

Potential Interfering Stations Included in above Scenario 7

9A NC MANTEO	BMPCDT	20080616AAG	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
9A PA BETHLEHEM	DTVPLN	DTVP0209	PLN
10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	BPCDT	20100111AER	APP

Percent new IX = 0.0159%

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 15 of 24)

Amendment Jan, 2010

Worst case new IX 0.0159% Scenario 7

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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	DTVPLN	-DTPV0182

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	-DTPV0155
08	WGAL	LANCASTER PA	126.8	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	126.8	PLN	DTVPLN	-DTPV0156
09	WSKY-TV	MANTEO NC	278.2	PLN	DTVPLN	-DTPV0200
09	WSKY-TV	MANTEO NC	278.5	CP MOD	BMPCDT	-20080616AAG
09	WTOV-TV	STEUBENVILLE OH	340.2	CP MOD	BMPCDT	-20080619ABG
09	WTOV-TV	STEUBENVILLE OH	340.2	PLN	DTVPLN	-DTPV0206
09	WBPH-TV	BETHLEHEM PA	228.2	APP	BMPCDT	-20100105AAH
09	WBPH-TV	BETHLEHEM PA	227.6	PLN	DTVPLN	-DTPV0209
09	WBPH-TV	BETHLEHEM PA	227.6	LIC	BLCDT	-20060609AAH
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	-DTPV0278
10	WHTM-TV	HARRISBURG PA	152.2	CP	BPCDT	-20080620AGL

Total scenarios = 16

Result key: 171  
Scenario 7 Affected station 11  
Before Analysis

Results for:	9A DC WASHINGTON	DTVPLN	DTPV0182	PLN
HAAT	235.0 m, ATV ERP	13.6 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	7351660	26015.6		
not affected by terrain losses	7251458	24259.4		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	52608	764.1		
lost to ATV IX only	52608	764.1		
lost to all IX	52608	764.1		

Potential Interfering Stations Included in above Scenario 7

9A NC MANTEO	BMPCDT	20080616AAG	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
9A PA BETHLEHEM	DTVPLN	DTPV0209	PLN
10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	DTVPLN	DTPV0156	PLN

After Analysis

Results for:	9A DC WASHINGTON	DTVPLN	DTPV0182	PLN
HAAT	235.0 m, ATV ERP	13.6 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	7351660	26015.6		

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 16 of 24)

Amendment Jan, 2010

not affected by terrain losses	7251458	24259.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	53735	792.1
lost to ATV IX only	53735	792.1
lost to all IX	53735	792.1

Potential Interfering Stations Included in above Scenario 7

9A NC MANTEO	BMPCDT	20080616AAG	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
9A PA BETHLEHEM	DTVPLN	DTPV0209	PLN
10A PA HARRISBURG	BPCDT	20080620AGL	CP
8A PA LANCASTER	BPCDT	20100111AER	APP

Percent new IX = 0.0157%

Worst case new IX 0.0157% Scenario 7

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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	BMPCDT	-20100105AAH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	78.8	PLN	DTVPLN	-DTPV0143
08	WNJB	NEW BRUNSWICK NJ	78.8	CP MOD	BMPEDT	-20090729ACO
08	WICZ-TV	BINGHAMTON NY	170.9	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	170.9	PLN	DTVPLN	-DTPV0148
08	WGAL	LANCASTER PA	116.5	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	116.5	PLN	DTVPLN	-DTPV0156
09	WEDN	NORWICH CT	293.6	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	293.6	PLN	DTVPLN	-DTPV0181
09	WUSA	WASHINGTON DC	228.2	CP MOD	BMPCDT	-20080425ABL
09	WUSA	WASHINGTON DC	228.2	PLN	DTVPLN	-DTPV0182
09	WMUR-TV	MANCHESTER NH	416.7	CP	BPCDT	-20080407ABS
09	WMUR-TV	MANCHESTER NH	416.7	PLN	DTVPLN	-DTPV0203
09	WVER	RUTLAND VT	393.5	LIC	BLEDT	-20050608AGC
09	WVER	RUTLAND VT	393.5	PLN	DTVPLN	-DTPV0223
10	WTNH	NEW HAVEN CT	229.0	LIC	BLCDT	-20040701AEC
10	WTNH	NEW HAVEN CT	229.0	PLN	DTVPLN	-DTPV0238
10	WHTM-TV	HARRISBURG PA	131.2	LIC	BLCDT	-20040812AAH
10	WHTM-TV	HARRISBURG PA	131.2	PLN	DTVPLN	-DTPV0278
10	WHTM-TV	HARRISBURG PA	131.2	CP	BPCDT	-20080620AGL
08	WNJB	NEW BRUNSWICK NJ	78.8	APP	USERRECORD-01	

Total scenarios = 72

Result key: 187  
Scenario 7 Affected station 12  
Before Analysis

Results for:	9A PA BETHLEHEM	BMPCDT	20100105AAH	APP
HAAT	302.0 m, ATV ERP	80.6 kW		
	POPULATION	AREA (sq km)		
within Noise Limited Contour	12020642	36359.8		

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 17 of 24)

Amendment Jan, 2010

not affected by terrain losses	10525213	32181.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1822287	2391.2
lost to ATV IX only	1822287	2391.2
lost to all IX	1822287	2391.2

Potential Interfering Stations Included in above Scenario 7

8A NJ NEW BRUNSWICK	DTVPLN	DTVP0143	PLN
9A CT NORWICH	BPEDT	20080619AFA	CP
9A DC WASHINGTON	DTVPLN	DTVP0182	PLN
9A VT RUTLAND	BLEDT	20050608AGC	LIC
10A PA HARRISBURG	BLCDT	20040812AAH	LIC
8A PA LANCASTER	DTVPLN	DTVP0156	PLN

After Analysis

Results for: 9A PA BETHLEHEM BMPCDT 20100105AAH APP  
HAAT 302.0 m, ATV ERP 80.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	12020642	36359.8
not affected by terrain losses	10525213	32181.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1914420	2831.1
lost to ATV IX only	1914420	2831.1
lost to all IX	1914420	2831.1

Potential Interfering Stations Included in above Scenario 7

8A NJ NEW BRUNSWICK	DTVPLN	DTVP0143	PLN
9A CT NORWICH	BPEDT	20080619AFA	CP
9A DC WASHINGTON	DTVPLN	DTVP0182	PLN
9A VT RUTLAND	BLEDT	20050608AGC	LIC
10A PA HARRISBURG	BLCDT	20040812AAH	LIC
8A PA LANCASTER	BPCDT	20100111AER	APP

The following station failed the de minimis interference criteria.

8D PA LANCASTER	BPCDT	20100111AER
ERP 32.20 kW HAAT 419.0 m	RCAMSL	556.0 m
Antenna CDB 999999999999999		

Due to interference to the following station and scenario: 7

9D PA BETHLEHEM	BMPCDT	20100105AAH
ERP 80.60 kW HAAT 302.0 m	RCAMSL	452.0 m
Antenna CDB 00000000097395		

Percent new interference from proposal: 1.0586 to BMPCDT 20100105AAH

Worst case new IX 1.0586% Scenario 7

Proposed station is MX

8A PA LANCASTER	BPCDT	20100111AER	APP
9A PA BETHLEHEM	BMPCDT	20100105AAH	APP

Proposal MX with BMPCDT 20100105AAH scenario 7 of station 12

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**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 18 of 24)

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	WBPH-TV	BETHLEHEM PA	DTVPLN	-DTVP0209

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	79.2	PLN	DTVPLN	-DTVP0143
08	WNJB	NEW BRUNSWICK NJ	79.2	CP MOD	BMPCDT	-20090729ACO
08	WICZ-TV	BINGHAMTON NY	171.1	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	171.1	PLN	DTVPLN	-DTVP0148
08	WGAL	LANCASTER PA	116.0	APP	BPCDT	-20100111AER
08	WGAL	LANCASTER PA	116.0	PLN	DTVPLN	-DTVP0156
09	WEDN	NORWICH CT	294.2	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	294.2	PLN	DTVPLN	-DTVP0181
09	WUSA	WASHINGTON DC	227.6	CP MOD	BMPCDT	-20080425ABL
09	WUSA	WASHINGTON DC	227.6	PLN	DTVPLN	-DTVP0182
09	WMUR-TV	MANCHESTER NH	417.2	CP	BPCDT	-20080407ABS
09	WMUR-TV	MANCHESTER NH	417.3	PLN	DTVPLN	-DTVP0203
09	WVER	RUTLAND VT	394.0	LIC	BLEDT	-20050608AGC
09	WVER	RUTLAND VT	394.0	PLN	DTVPLN	-DTVP0223
10	WHTM-TV	HARRISBURG PA	130.7	LIC	BLCDT	-20040812AAH
10	WHTM-TV	HARRISBURG PA	130.7	PLN	DTVPLN	-DTVP0278
10	WHTM-TV	HARRISBURG PA	130.7	CP	BPCDT	-20080620AGL
08	WNJB	NEW BRUNSWICK NJ	79.2	APP	USERRECORD-01	

Total scenarios = 6

Result key: 257  
Scenario 5 Affected station 13  
Before Analysis

Results for: 9A PA BETHLEHEM DTVPLN DTVP0209 PLN

HAAT 284.0 m, ATV ERP 3.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	6449446	18459.0
not affected by terrain losses	5831102	16686.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	654143	1124.7
lost to ATV IX only	654143	1124.7
lost to all IX	654143	1124.7

Potential Interfering Stations Included in above Scenario 5

8A NJ NEW BRUNSWICK	USERRECORD01	APP
9A CT NORWICH	BPEDT	20080619AFA CP
9A DC WASHINGTON	BMPCDT	20080425ABL CP
10A PA HARRISBURG	BPCDT	20080620AGL CP
8A PA LANCASTER	DTVPLN	DTVP0156 PLN

After Analysis

Results for: 9A PA BETHLEHEM DTVPLN DTVP0209 PLN

HAAT 284.0 m, ATV ERP 3.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	6449446	18459.0
not affected by terrain losses	5831102	16686.0
lost to NTSC IX	0	0.0

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lost to additional IX by ATV	660795	1172.7
lost to ATV IX only	660795	1172.7
lost to all IX	660795	1172.7

Potential Interfering Stations Included in above Scenario 5

8A NJ NEW BRUNSWICK	USERRECORD01	APP
9A CT NORWICH	BPEDT	20080619AFA CP
9A DC WASHINGTON	BMPCDT	20080425ABL CP
10A PA HARRISBURG	BPCDT	20080620AGL CP
8A PA LANCASTER	BPCDT	20100111AER APP

Percent new IX = 0.1285%

Worst case new IX 0.1285% Scenario 5

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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	BLCDDT	-20060609AAH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	79.2	PLN	DTVPLN	-DTVPO143
08	WNJB	NEW BRUNSWICK NJ	79.2	CP MOD	BMPCDT	-20090729ACO
08	WICZ-TV	BINGHAMTON NY	171.1	LIC	BLCDDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	171.1	PLN	DTVPLN	-DTVPO148
08	WGAL	LANCASTER PA	116.0	APP	BPCDDT	-20100111AER
08	WGAL	LANCASTER PA	116.0	PLN	DTVPLN	-DTVPO156
09	WEDN	NORWICH CT	294.2	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	294.2	PLN	DTVPLN	-DTVPO181
09	WUSA	WASHINGTON DC	227.6	CP MOD	BMPCDDT	-20080425ABL
09	WUSA	WASHINGTON DC	227.6	PLN	DTVPLN	-DTVPO182
09	WMUR-TV	MANCHESTER NH	417.2	CP	BPCDDT	-20080407ABS
09	WMUR-TV	MANCHESTER NH	417.3	PLN	DTVPLN	-DTVPO203
09	WVER	RUTLAND VT	394.0	LIC	BLEDDT	-20050608AGC
09	WVER	RUTLAND VT	394.0	PLN	DTVPLN	-DTVPO223
10	WHTM-TV	HARRISBURG PA	130.7	LIC	BLCDDT	-20040812AAH
10	WHTM-TV	HARRISBURG PA	130.7	PLN	DTVPLN	-DTVPO278
10	WHTM-TV	HARRISBURG PA	130.7	CP	BPCDDT	-20080620AGL
08	WNJB	NEW BRUNSWICK NJ	79.2	APP	USERRECORD-01	

Total scenarios = 6

Result key: 263

Scenario 5 Affected station 14  
Before Analysis

Results for: 9A PA BETHLEHEM BLCDDT 20060609AAH LIC

HAAT	284.0 m, ATV ERP	3.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	6449446	18459.0		
not affected by terrain losses	5831102	16686.0		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	654143	1124.7		
lost to ATV IX only	654143	1124.7		

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 20 of 24)

Amendment Jan, 2010

lost to all IX	654143	1124.7
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Potential Interfering Stations Included in above Scenario 5

8A NJ NEW BRUNSWICK	USERRECORD01	APP
9A CT NORWICH	BPEDT	20080619AFA CP
9A DC WASHINGTON	BMPCDT	20080425ABL CP
10A PA HARRISBURG	BPCDDT	20080620AGL CP
8A PA LANCASTER	DTVPLN	DTVPO156 PLN

After Analysis

Results for: 9A PA BETHLEHEM BLCDDT 20060609AAH LIC

HAAT	284.0 m, ATV ERP	3.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	6449446	18459.0		
not affected by terrain losses	5831102	16686.0		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	660795	1172.7		
lost to ATV IX only	660795	1172.7		
lost to all IX	660795	1172.7		

Potential Interfering Stations Included in above Scenario 5

8A NJ NEW BRUNSWICK	USERRECORD01	APP
9A CT NORWICH	BPEDT	20080619AFA CP
9A DC WASHINGTON	BMPCDDT	20080425ABL CP
10A PA HARRISBURG	BPCDDT	20080620AGL CP
8A PA LANCASTER	BPCDDT	20100111AER APP

Percent new IX = 0.1285%

Worst case new IX 0.1285% Scenario 5

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Analysis of Interference to Affected Station 15

Analysis of current record

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

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	79.2	PLN	DTVPLN	-DTVPO143
08	WNJB	NEW BRUNSWICK NJ	79.2	CP MOD	BMPCDT	-20090729ACO
08	WICZ-TV	BINGHAMTON NY	171.1	LIC	BLCDDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	171.1	PLN	DTVPLN	-DTVPO148
08	WGAL	LANCASTER PA	116.0	APP	BPCDDT	-20100111AER
08	WGAL	LANCASTER PA	116.0	PLN	DTVPLN	-DTVPO156
09	WEDN	NORWICH CT	294.2	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	294.2	PLN	DTVPLN	-DTVPO181
09	WUSA	WASHINGTON DC	227.6	CP MOD	BMPCDDT	-20080425ABL
09	WUSA	WASHINGTON DC	227.6	PLN	DTVPLN	-DTVPO182
09	WMUR-TV	MANCHESTER NH	417.2	CP	BPCDDT	-20080407ABS
09	WMUR-TV	MANCHESTER NH	417.3	PLN	DTVPLN	-DTVPO203
09	WVER	RUTLAND VT	394.0	LIC	BLEDDT	-20050608AGC
09	WVER	RUTLAND VT	394.0	PLN	DTVPLN	-DTVPO223
10	WHTM-TV	HARRISBURG PA	130.7	LIC	BLCDDT	-20040812AAH

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10	WHTM-TV	HARRISBURG PA	130.7	PLN	DTVPLN	-DTVP0278
10	WHTM-TV	HARRISBURG PA	130.7	CP	BPCDT	-20080620AGL
08	WNJB	NEW BRUNSWICK NJ	79.2	APP	USERRECORD-01	

Total scenarios = 36

Result key: 265  
Scenario 1 Affected station 15  
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	11200387	32676.3
not affected by terrain losses	9660912	28603.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1573329	2042.3
lost to ATV IX only	1573329	2042.3
lost to all IX	1573329	2042.3

Potential Interfering Stations Included in above Scenario 1

8A NJ NEW BRUNSWICK	DTVPLN	DTVP0143	PLN
9A CT NORWICH	BPEDT	20080619AFA	CP
9A DC WASHINGTON	BMPCDT	20080425ABL	CP
9A VT RUTLAND	BLEDT	20050608AGC	LIC
10A PA HARRISBURG	BLCDT	20040812AAH	LIC
8A PA LANCASTER	DTVPLN	DTVP0156	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	11200387	32676.3
not affected by terrain losses	9660912	28603.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1612795	2278.1
lost to ATV IX only	1612795	2278.1
lost to all IX	1612795	2278.1

Potential Interfering Stations Included in above Scenario 1

8A NJ NEW BRUNSWICK	DTVPLN	DTVP0143	PLN
9A CT NORWICH	BPEDT	20080619AFA	CP
9A DC WASHINGTON	BMPCDT	20080425ABL	CP
9A VT RUTLAND	BLEDT	20050608AGC	LIC
10A PA HARRISBURG	BLCDT	20040812AAH	LIC
8A PA LANCASTER	BPCDT	20100111AER	APP

Percent new IX = 0.4880%

Worst case new IX 0.4880% Scenario 1

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Analysis of Interference to Affected Station 16

Analysis of current record

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
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Amendment Jan, 2010

Channel	Call	City/State	Application Ref. No.
08	WNJB	NEW BRUNSWICK NJ	USERRECORD-01

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 -DTVP0084
07	WBNG-TV	BINGHAMTON NY	200.3	LIC	BLCDT -20060329ACH
07	WBNG-TV	BINGHAMTON NY	200.3	PLN	DTVPLN -DTVP0085
07	WABC-TV	NEW YORK NY	45.9	CP	BPCDT -20080529AJT
07	WABC-TV	NEW YORK NY	42.6	PLN	DTVPLN -DTVP0087
08	WICZ-TV	BINGHAMTON NY	199.7	LIC	BLCDT -20060320AFC
08	WICZ-TV	BINGHAMTON NY	199.7	PLN	DTVPLN -DTVP0148
08	WWCP-TV	JOHNSTOWN PA	396.3	CP MOD	BMPCDT -20080620AIX
08	WWCP-TV	JOHNSTOWN PA	396.3	PLN	DTVPLN -DTVP0155
08	WGAL	LANCASTER PA	190.7	APP	BPCDT -20100111AER
08	WGAL	LANCASTER PA	190.7	PLN	DTVPLN -DTVP0156
09	WEDN	NORWICH CT	219.8	CP	BPEDT -20080619AFA
09	WEDN	NORWICH CT	219.8	PLN	DTVPLN -DTVP0181
09	WBPH-TV	BETHLEHEM PA	78.8	APP	BMPCDT -20100105AAH
09	WBPH-TV	BETHLEHEM PA	79.2	PLN	DTVPLN -DTVP0209
09	WBPH-TV	BETHLEHEM PA	79.2	LIC	BLCDT -20060609AAH
09	WBPH-TV	BETHLEHEM PA	79.2	CP	BPCDT -20080619ALA
07	WABC-TV	NEW YORK NY	45.9	APP	USERRECORD-02

Total scenarios = 24

Result key: 318  
Scenario 18 Affected station 16  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK USERRECORD01 APP  
HAAT 218.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4140941	3264.7
lost to ATV IX only	4140941	3264.7
lost to all IX	4140941	3264.7

Potential Interfering Stations Included in above Scenario 18

7A NY NEW YORK	USERRECORD02	APP
8A NY BINGHAMTON	BLCDT	20060320AFC LIC
9A PA BETHLEHEM	DTVPLN	DTVP0209 PLN
8A PA LANCASTER	DTVPLN	DTVP0156 PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK USERRECORD01 APP  
HAAT 218.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4886330	4095.8
lost to ATV IX only	4886330	4095.8
lost to all IX	4886330	4095.8

Potential Interfering Stations Included in above Scenario 18

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7A NY NEW YORK	USERRECORD02	APP
8A NY BINGHAMTON	BLCDT 20060320AFC	LIC
9A PA BETHLEHEM	DTVPLN DTVP0209	PLN
8A PA LANCASTER	BPCDT 20100111AER	APP

The following station failed the de minimis interference criteria.

8D PA LANCASTER	BPCDT	20100111AER
ERP 32.20 kW HAAT 419.0 m	RCAMSL	556.0 m
Antenna CDB 99999999999999		

Due to interference to the following station and scenario: 18

8D NJ NEW BRUNSWICK	USERRECORD01
ERP 40.91 kW HAAT 218.0 m	RCAMSL 281.0 m
Antenna CDB 0000000094321	

Percent new interference from proposal: 4.7247 to USERRECORD01

Worst case new IX 4.7247% Scenario 18

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Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WGAL	LANCASTER PA	BPCDT	-20100111AER

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	126.8	CP MOD	BMPCDT	-20080620AIH
07	WJLA-TV	WASHINGTON DC	126.8	PLN	DTVPLN	-DTVP0053
08	WNJB	NEW BRUNSWICK NJ	190.7	PLN	DTVPLN	-DTVP0143
08	WNJB	NEW BRUNSWICK NJ	190.7	CP MOD	BMPEDT	-20090729ACO
08	WICZ-TV	BINGHAMTON NY	231.7	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	231.7	PLN	DTVPLN	-DTVP0148
08	WWCP-TV	JOHNSTOWN PA	215.9	CP MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	215.9	PLN	DTVPLN	-DTVP0155
09	WUSA	WASHINGTON DC	126.8	CP MOD	BMPCDT	-20080425ABL
09	WUSA	WASHINGTON DC	126.8	PLN	DTVPLN	-DTVP0182
09	WBPH-TV	BETHLEHEM PA	116.5	APP	BMPCDT	-20100105AAH
09	WBPH-TV	BETHLEHEM PA	116.0	PLN	DTVPLN	-DTVP0209
09	WBPH-TV	BETHLEHEM PA	116.0	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	116.0	CP	BPCDT	-20080619ALA
08	WNJB	NEW BRUNSWICK NJ	190.7	APP	USERRECORD-01	

Total scenarios = 192

Result key: 440

Scenario 116 Affected station 17

Before Analysis

Results for: 8A PA LANCASTER BPCDT 20100111AER APP  
HAAT 419.0 m, ATV ERP 32.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7163708	38899.7
not affected by terrain losses	6224866	33897.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	590158	1914.8

**Table 1 WGAL(DT) OET Bulletin 69 Interference Study**  
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lost to ATV IX only	590158	1914.8
lost to all IX	590158	1914.8

Potential Interfering Stations Included in above Scenario 116

7A DC WASHINGTON	BMPCDT	20080620AIH	CP
8A NJ NEW BRUNSWICK	USERRECORD01		APP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA JOHNSTOWN	BMPCDT	20080620AIX	CP
9A DC WASHINGTON	BMPCDT	20080425ABL	CP
9A PA BETHLEHEM	BPCDT	20080619ALA	CP

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