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

ENGINEERING EXHIBIT

Application for Digital Television Station Construction Permit

prepared for

WGAL Hearst-Argyle Television, Inc.
WGAL(DT) Lancaster, PA
Facility ID 53930
Ch. 8 14.1 kW 419 m

WGAL Hearst-Argyle Television, Inc. ("Hearst-Argyle") is the licensee of television station WGAL(DT), pre-transition digital Channel 58 and analog Channel 8, Lancaster, PA. A Construction Permit ("CP", BMPCDT-20090608AAQ) authorizes WGAL to operate post-transition as digital on Channel 8 at 8.1 kW effective radiated power ("ERP") at an antenna height above average terrain ("HAAT") of 419 meters. A license application is pending (BLCDT-20090226AEL) to cover construction of the WGAL digital Channel 8 facility. *Hearst-Argyle* herein seeks a new CP to increase the ERP to 14.1 kW while maintaining the authorized antenna location and height.

The transmitting antenna (RCA model TW-9A8-R) is located on an antenna supporting structure having FCC Antenna Structure Registration 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 dBμ contour.

The proposed WGAL-DT facility's predicted service population provides a 127.1 percent match of the Appendix B facility, as detailed in the following table.

Post-Transition Population Summary

Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	5,089,460	6,104,744
Not affected by terrain losses	4,241,096	5,418,701
Lost to all interference	152,951	224,097
Net DTV Service	**4,088,145**	**5,194,604**
Match of Appendix B	---	**127.07%**

A detailed interference study per OET Bulletin 69[1] 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, except for the Appendix B facility for WNJB(DT) (Ch. 8 New Brunswick, NJ). WNJB's Appendix B CP facility would receive 1.51 percent interference, however only 0.25 percent interference would be caused to the WBJB Construction Permit facility (BMPEDT-20070125ACC). Thus it is believed that the proposal complies with FCC requirements,[2] as it has been over one year since the contour extension (maximization) filing freeze has been lifted, WNJB has been granted an expansion Construction Permit, and the proposal does not cause impermissible interference to the WNJB authorized facility. The interference study output report is provided as **Table 1**. Protection requirements towards authorized Class A stations are also satisfied.

The proposed 14.1 kW ERP exceeds the maximum allowed in Zone I for the proposed antenna HAAT of 419 meters currently permitted by §73.622(f)(7)(ii). Section 73.622(f)(5) permits the maximum ERP to be exceeded in order to provide the same geographic coverage area as the largest station within the same market. The total area within the proposed WGAL 36 dBμ contour is 33,914 square kilometers, which does not exceed the 33,925 square kilometers within the post-transition Construction Permit for station WPMT(DT) (Ch. 47, York, PA, BPCDT-20080620AFE). A coverage contour comparison map is provided as **Figure 2**. Thus, the ERP specified herein is in compliance with §73.622(f)(5) of the Commission's Rules.

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

[2] ¶155 and 162, *"Third Periodic Review of the Commission's Rules and Policies Affecting the Conversion to Digital Television,"* Report and Order, MB Docket 07-91, FCC 07-228, released December 31, 2007.

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 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.

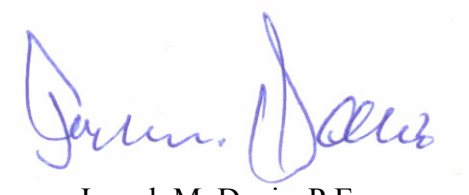
The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and assuming the worst-case of 100% antenna relative field in downward elevations, the calculated power density attributable to the proposed facility at locations near the transmitter site at a height of two meters above ground level is 8.4 $\mu W/cm^2$, which is 4.2 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.
July 10, 2009

Chesapeake RF Consultants, LLC
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Manassas, VA 20112
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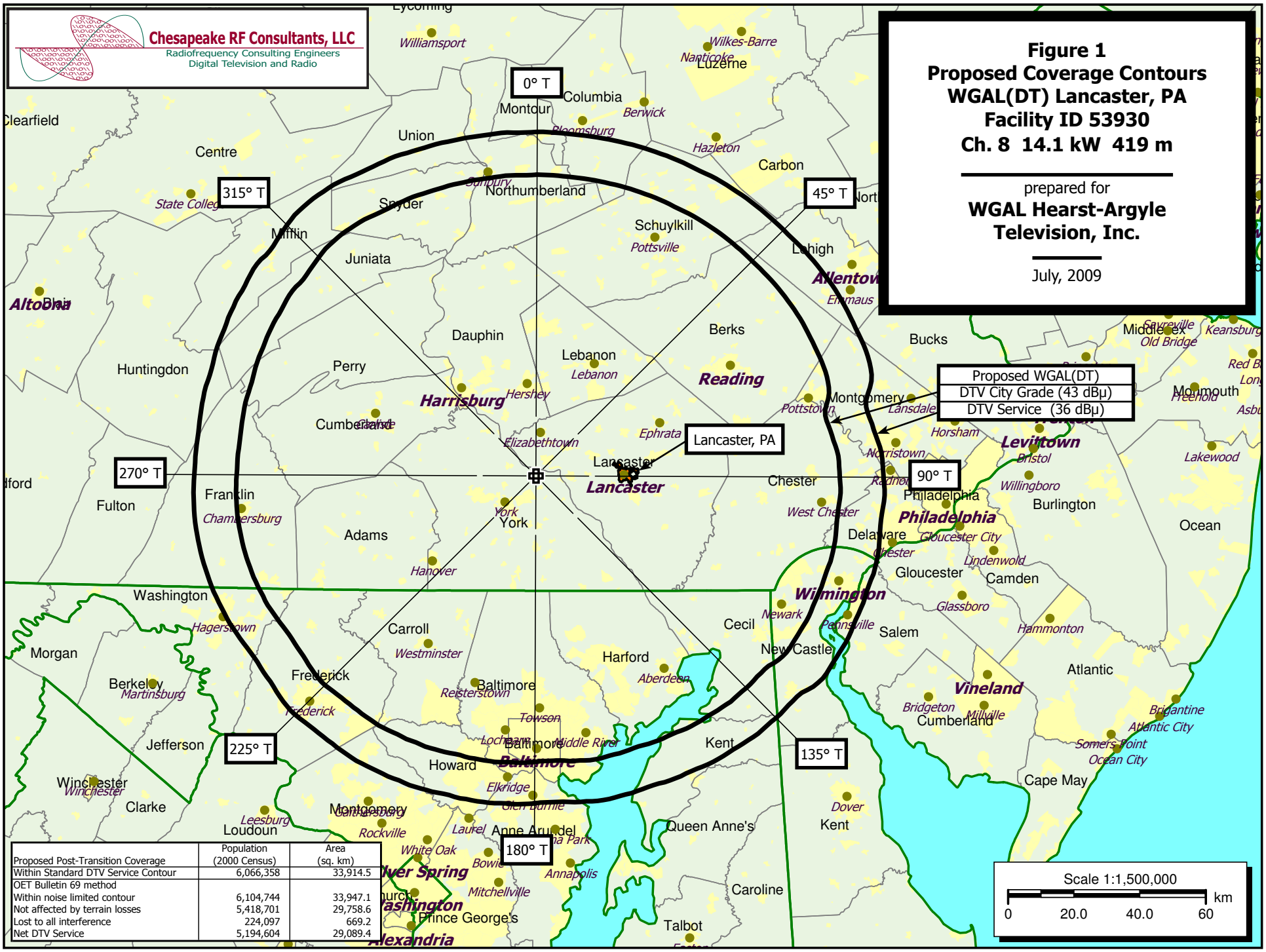
List of Attachments

Figure 1	Proposed Coverage Contours
Figure 2	Maximum ERP per §73.622(f)
Table 1	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload



Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	6,066,358	33,914.5
OET Bulletin 69 method		
Within noise limited contour	6,104,744	33,947.1
Not affected by terrain losses	5,418,701	29,758.6
Lost to all interference	224,097	669.2
Net DTV Service	5,194,604	29,089.4

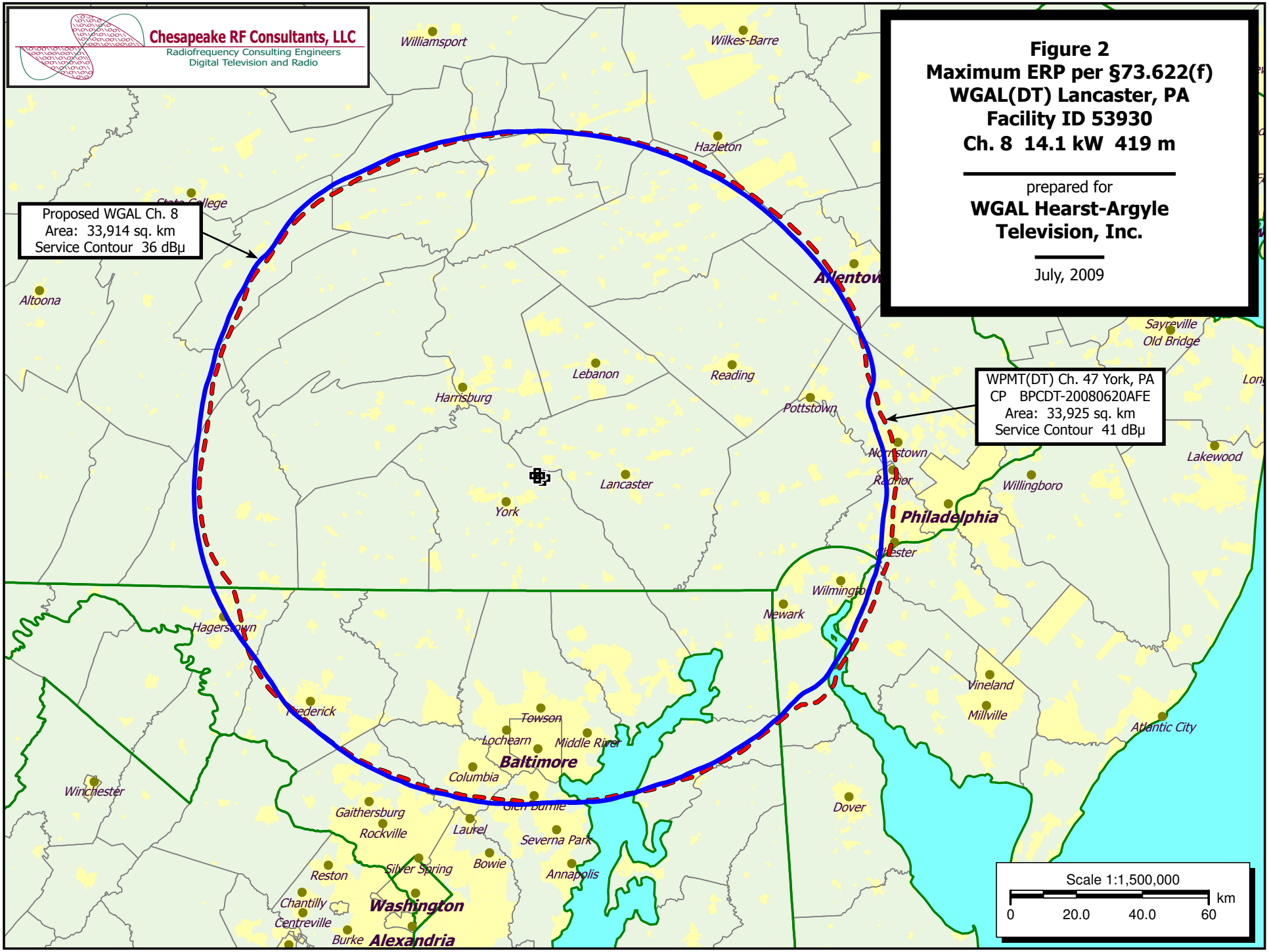

Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio
Figure 2
Maximum ERP per §73.622(f)
WGAL(DT) Lancaster, PA
Facility ID 53930
Ch. 8 14.1 kW 419 m
prepared for
WGAL Hearst-Argyle Television, Inc.
July, 2009
Proposed WGAL Ch. 8
Area: 33,914 sq. km
Service Contour 36 dBµ
WPMT(DT) Ch. 47 York, PA
CP BPCDT-20080620AFE
Area: 33,925 sq. km
Service Contour 41 dBµ
Williamsport
Wilkes-Barre
Hazleton
State College
Altoona
Allentown
Sayreville
Old Bridge
Lebanon
Reading
Harrisburg
Pottstown
Norristown
Lakewood
Lancaster
Radnor
Willingboro
York
Philadelphia
Chester
Wilmington
Newark
Hagerstown
Vineland
Millville
Atlantic City
Frederick
Towson
Lochearn
Middle River
Baltimore
Columbia
Winchester
Glen Burnie
Dover
Gaithersburg
Rockville
Laurel
Severna Park
Silver Spring
Bowie
Annapolis
Reston
Chantilly
Centreville
Washington
Burke
Alexandria
Scale 1:1,500,000
km
0
20.0
40.0
60

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

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

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 07-09-2009 Time: 19:50:32

Record Selected for Analysis

WGAL-DT USERRECORD-01 LANCASTER PA US
Channel 08 ERP 14.1 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 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility does not meet maximum height/power limits
Channel 8 ERP = 14.10 HAAT = 419.

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	14.100	424.8	104.3
45.0	14.100	444.3	105.8
90.0	14.100	440.0	105.5
135.0	14.100	411.9	103.3
180.0	14.100	355.3	99.2
225.0	14.100	404.1	102.7
270.0	14.100	415.4	103.6
315.0	14.100	459.1	106.9

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)

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Proposed Station

Channel	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	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	236.8	CP MOD	BMPEDT	-20070125ACC
08	WNJB	NEW BRUNSWICK NJ	190.7	PLN	DTVPLN	-DTVP0149
08	WICZ-TV	BINGHAMTON NY	231.7	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	231.7	PLN	DTVPLN	-DTVP0153
08	WWCP-TV	JOHNSTOWN PA	215.9	CP MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	215.9	PLN	DTVPLN	-DTVP0160
09	WUSA	WASHINGTON DC	126.8	CP MOD	BMPCDT	-20080425ABL
09	WUSA	WASHINGTON DC	126.8	PLN	DTVPLN	-DTVP0188
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	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	-DTVP0088
07	WABC-TV	NEW YORK NY	326.7	APP	BMPCDT	-20080620AMV
07	WABC-TV	NEW YORK NY	326.8	PLN	DTVPLN	-DTVP0090
07	WABC-TV	NEW YORK NY	331.1	CP	BPCDT	-20080529AJT
07	WABC-TV	NEW YORK NY	331.1	APP	BPCDT	-20090626ABL
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	-DTVP0109
08	WWCP-TV	JOHNSTOWN PA	224.1	CP MOD	BMPCDT	-20080620AIX
08	WWCP-TV	JOHNSTOWN PA	224.1	PLN	DTVPLN	-DTVP0160
08	WGAL	LANCASTER PA	126.8	PLN	DTVPLN	-DTVP0161
08	WGAL-DT	LANCASTER PA	126.8	APP	USERRECORD-01	

Total scenarios = 32

Result key: 21
Scenario 21 Affected station 1
Before Analysis

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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       42503        548.1
   lost to ATV IX only                42503        548.1
   lost to all IX                     42503        548.1

 Potential Interfering Stations Included in above Scenario    21

 7A NY BINGHAMTON           BLCDT     20060329ACH  LIC
 7A NY NEW YORK             BPCDT     20090626ABL  APP
 7A VA VIRGINIA BEACH       BMPCDT    20080821ADP  CP
 7A WV WHEELING             BMPCDT    20080620ALK  CP
 8A PA LANCASTER            DTVPLN    DTVP0161     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       46215        576.1
   lost to ATV IX only                46215        576.1
   lost to all IX                     46215        576.1

 Potential Interfering Stations Included in above Scenario    21

 7A NY BINGHAMTON           BLCDT     20060329ACH  LIC
 7A NY NEW YORK             BPCDT     20090626ABL  APP
 7A VA VIRGINIA BEACH       BMPCDT    20080821ADP  CP
 7A WV WHEELING             BMPCDT    20080620ALK  CP
 8A PA LANCASTER            USERRECORD01           APP

Percent new IX =    0.0500%

Worst case new IX    0.0500% Scenario     21

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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    -DTVP0088
 07   WABC-TV  NEW YORK NY              326.7  APP    BMPCDT    -20080620AMV
 07   WABC-TV  NEW YORK NY              326.8  PLN    DTVPLN    -DTVP0090
 07   WABC-TV  NEW YORK NY              331.1  CP     BPCDT     -20080529AJT
 07   WABC-TV  NEW YORK NY              331.1  APP    BPCDT     -20090626ABL
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 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    -DTVP0109
 08   WWCP-TV  JOHNSTOWN PA             224.1  CP MOD BMPCDT    -20080620AIX
 08   WWCP-TV  JOHNSTOWN PA             224.1  PLN    DTVPLN    -DTVP0160
 08   WGAL     LANCASTER PA             126.8  PLN    DTVPLN    -DTVP0161
 08   WGAL-DT  LANCASTER PA             126.8  APP    USERRECORD-01

 Total scenarios =   32

Result key:       53
Scenario       21  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       39726        436.1
   lost to ATV IX only                39726        436.1
   lost to all IX                     39726        436.1

 Potential Interfering Stations Included in above Scenario    21

 7A NY BINGHAMTON           BLCDT     20060329ACH  LIC
 7A NY NEW YORK             BPCDT     20090626ABL  APP
 7A VA VIRGINIA BEACH       BMPCDT    20080821ADP  CP
 7A WV WHEELING             BMPCDT    20080620ALK  CP
 8A PA LANCASTER            DTVPLN    DTVP0161     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       40780        460.1
   lost to ATV IX only                40780        460.1
   lost to all IX                     40780        460.1

 Potential Interfering Stations Included in above Scenario    21

 7A NY BINGHAMTON           BLCDT     20060329ACH  LIC
 7A NY NEW YORK             BPCDT     20090626ABL  APP
 7A VA VIRGINIA BEACH       BMPCDT    20080821ADP  CP
 7A WV WHEELING             BMPCDT    20080620ALK  CP
 8A PA LANCASTER            USERRECORD01           APP

Percent new IX =    0.0146%

Worst case new IX    0.0146% Scenario     21

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     Analysis of Interference to Affected Station   3
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Table 1 WGAL(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 20)

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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   WHDH-TV  BOSTON MA                401.2  CP MOD BMPCDT    -20080618AAE
 07   WHDH-TV  BOSTON MA                401.2  PLN    DTVPLN    -DTVP0068
 07   WXXA-TV  ALBANY NY                218.1  LIC    BLCDT     -20051222AAQ
 07   WXXA-TV  ALBANY NY                218.1  PLN    DTVPLN    -DTVP0087
 07   WBNG-TV  BINGHAMTON NY             96.2  LIC    BLCDT     -20060329ACH
 07   WBNG-TV  BINGHAMTON NY             96.2  PLN    DTVPLN    -DTVP0088
 07   WWNY-TV  CARTHAGE NY              306.4  CP MOD BMPCDT    -20080620AIE
 07   WWNY-TV  CARTHAGE NY              306.4  PLN    DTVPLN    -DTVP0089
 07   WABC-TV  NEW YORK NY              161.1  APP    BMPCDT    -20080620AMV
 07   WABC-TV  NEW YORK NY              161.0  PLN    DTVPLN    -DTVP0090
 07   WABC-TV  NEW YORK NY              161.8  CP     BPCDT     -20080529AJT
 07   WABC-TV  NEW YORK NY              161.8  APP    BPCDT     -20090626ABL
 07   WNGS     SPRINGVILLE NY           281.4  CP     BPCDT     -20080328AFD
 07   WNGS     SPRINGVILLE NY           281.4  PLN    DTVPLN    -DTVP0091
 08   WNJB     NEW BRUNSWICK NJ         161.5  CP MOD BMPEDT    -20070125ACC
 08   WNJB     NEW BRUNSWICK NJ         127.8  PLN    DTVPLN    -DTVP0149
 08   WICZ-TV  BINGHAMTON NY             95.9  LIC    BLCDT     -20060320AFC
 08   WICZ-TV  BINGHAMTON NY             95.9  PLN    DTVPLN    -DTVP0153
 08   WGAL     LANCASTER PA             145.9  PLN    DTVPLN    -DTVP0161
 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    -DTVP0087
 07   WBNG-TV  BINGHAMTON NY            218.6  LIC    BLCDT     -20060329ACH
 07   WBNG-TV  BINGHAMTON NY            218.6  PLN    DTVPLN    -DTVP0088
 07   WABC-TV  NEW YORK NY                5.6  APP    BMPCDT    -20080620AMV
 07   WABC-TV  NEW YORK NY                5.4  PLN    DTVPLN    -DTVP0090
 07   WABC-TV  NEW YORK NY                0.9  CP     BPCDT     -20080529AJT
 07   WABC-TV  NEW YORK NY                0.9  APP    BPCDT     -20090626ABL
 08   WICZ-TV  BINGHAMTON NY            218.0  LIC    BLCDT     -20060320AFC
 08   WICZ-TV  BINGHAMTON NY            218.0  PLN    DTVPLN    -DTVP0153
 08   WGAL     LANCASTER PA             236.8  PLN    DTVPLN    -DTVP0161
 09   WEDN     NORWICH CT               174.4  CP     BPEDT     -20080619AFA
 09   WEDN     NORWICH CT               174.4  PLN    DTVPLN    -DTVP0187
 09   WBPH-TV  BETHLEHEM PA             124.4  LIC    BLCDT     -20060609AAH
 09   WBPH-TV  BETHLEHEM PA             124.4  PLN    DTVPLN    -DTVP0216
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Table 1 WGAL(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 20)

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 09   WBPH-TV  BETHLEHEM PA             124.4  CP     BPCDT     -20080619ALA
 08   WGAL-DT  LANCASTER PA             236.8  APP    USERRECORD-01

 Total scenarios =   24

Result key:       83
Scenario       19  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    19632567      27219.8
   not affected by terrain losses  19273758      25358.9
   lost to NTSC IX                         0          0.0
   lost to additional IX by ATV       26506        238.2
   lost to ATV IX only                26506        238.2
   lost to all IX                     26506        238.2

 Potential Interfering Stations Included in above Scenario    19

 7A NY NEW YORK             BPCDT     20090626ABL  APP
 8A NY BINGHAMTON           BLCDT     20060320AFC  LIC
 9A PA BETHLEHEM            BLCDT     20060609AAH  LIC
 8A PA LANCASTER            DTVPLN    DTVP0161     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    19632567      27219.8
   not affected by terrain losses  19273758      25358.9
   lost to NTSC IX                         0          0.0
   lost to additional IX by ATV       74341        516.7
   lost to ATV IX only                74341        516.7
   lost to all IX                     74341        516.7

 Potential Interfering Stations Included in above Scenario    19

 7A NY NEW YORK             BPCDT     20090626ABL  APP
 8A NY BINGHAMTON           BLCDT     20060320AFC  LIC
 9A PA BETHLEHEM            BLCDT     20060609AAH  LIC
 8A PA LANCASTER            USERRECORD01           APP

Percent new IX =    0.2485%

Worst case new IX    0.2485% Scenario     19

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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    -DTVP0149

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
```

Table 1 WGAL(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 7 of 20)

```
 07   WXXA-TV  ALBANY NY                226.5  LIC     BLCDT     -20051222AAQ
 07   WXXA-TV  ALBANY NY                226.5  PLN     DTVPLN    -DTVP0087
 07   WBNG-TV  BINGHAMTON NY            200.3  LIC     BLCDT     -20060329ACH
 07   WBNG-TV  BINGHAMTON NY            200.3  PLN     DTVPLN    -DTVP0088
 07   WABC-TV  NEW YORK NY               42.5  APP     BMPCDT    -20080620AMV
 07   WABC-TV  NEW YORK NY               42.6  PLN     DTVPLN    -DTVP0090
 07   WABC-TV  NEW YORK NY               45.9  CP      BPCDT     -20080529AJT
 07   WABC-TV  NEW YORK NY               45.9  APP     BPCDT     -20090626ABL
 08   WICZ-TV  BINGHAMTON NY            199.7  LIC     BLCDT     -20060320AFC
 08   WICZ-TV  BINGHAMTON NY            199.7  PLN     DTVPLN    -DTVP0153
 08   WWCP-TV  JOHNSTOWN PA             396.3  CP MOD  BMPCDT    -20080620AIX
 08   WWCP-TV  JOHNSTOWN PA             396.3  PLN     DTVPLN    -DTVP0160
 08   WGAL     LANCASTER PA             190.7  PLN     DTVPLN    -DTVP0161
 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 =   24

Result key:      107
Scenario       19  Affected station        5
Before Analysis

Results for:  8A NJ NEW BRUNSWICK        DTVPLN    DTVP0149     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     5302265       2842.6
   lost to ATV IX only              5302265       2842.6
   lost to all IX                   5302265       2842.6

 Potential Interfering Stations Included in above Scenario    19

 7A NY NEW YORK             BPCDT     20090626ABL  APP
 8A NY BINGHAMTON           BLCDT     20060320AFC  LIC
 9A PA BETHLEHEM            BLCDT     20060609AAH  LIC
 8A PA LANCASTER            DTVPLN    DTVP0161     PLN

After Analysis

Results for:  8A NJ NEW BRUNSWICK        DTVPLN    DTVP0149     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     5507290       3202.4
   lost to ATV IX only              5507290       3202.4
   lost to all IX                   5507290       3202.4

 Potential Interfering Stations Included in above Scenario    19

 7A NY NEW YORK             BPCDT     20090626ABL  APP
 8A NY BINGHAMTON           BLCDT     20060320AFC  LIC
 9A PA BETHLEHEM            BLCDT     20060609AAH  LIC
 8A PA LANCASTER            USERRECORD01           APP
```

Table 1 WGAL(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 8 of 20)

```
 The following station failed the de minimis interference criteria.
  8D PA LANCASTER            USERRECORD01
 ERP   14.10 kW  HAAT   419.0 m  RCAMSL   557.0 m
 Antenna     none

 Due to interference to the following station and scenario:    19
  8D NJ NEW BRUNSWICK        DTVPLN    DTVP0149
 ERP   20.20 kW  HAAT   212.0 m  RCAMSL   278.0 m
 Antenna CDB 00000000032754

 Percent new interference from proposal:       1.5070 to DTVPLN    DTVP0149

Worst case new IX    1.5070% Scenario     19

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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    -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             219.8  APP     BMPCDT    -20080620AMV
 07   WABC-TV  NEW YORK NY             219.6  PLN     DTVPLN    -DTVP0090
 07   WABC-TV  NEW YORK NY             218.6  CP      BPCDT     -20080529AJT
 07   WABC-TV  NEW YORK NY             218.6  APP     BPCDT     -20090626ABL
 08   WNJB     NEW BRUNSWICK NJ        218.0  CP MOD  BMPEDT    -20070125ACC
 08   WNJB     NEW BRUNSWICK NJ        199.7  PLN     DTVPLN    -DTVP0149
 08   WWCP-TV  JOHNSTOWN PA            339.9  CP MOD  BMPCDT    -20080620AIX
 08   WWCP-TV  JOHNSTOWN PA            339.9  PLN     DTVPLN    -DTVP0160
 08   WGAL     LANCASTER PA            231.7  PLN     DTVPLN    -DTVP0161
 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:      113
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      962229      24331.0
   not affected by terrain losses    762023      21627.6
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV        7951        295.9
   lost to ATV IX only                 7951        295.9
```

```
   lost to all IX                       7951        295.9

 Potential Interfering Stations Included in above Scenario     1

 7A NY BINGHAMTON           BLCDT     20060329ACH  LIC
 8A NJ NEW BRUNSWICK        BMPEDT    20070125ACC  CP
 8A PA LANCASTER            DTVPLN    DTVP0161     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       11108        323.9
   lost to ATV IX only                11108        323.9
   lost to all IX                     11108        323.9

 Potential Interfering Stations Included in above Scenario     1

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

Percent new IX =    0.4187%

Worst case new IX    0.4187% Scenario      1

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


     Analysis of Interference to Affected Station   7


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   08      WICZ-TV    BINGHAMTON NY             DTVPLN    -DTVP0153

     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              219.8  APP    BMPCDT    -20080620AMV
 07   WABC-TV  NEW YORK NY              219.6  PLN    DTVPLN    -DTVP0090
 07   WABC-TV  NEW YORK NY              218.6  CP     BPCDT     -20080529AJT
 07   WABC-TV  NEW YORK NY              218.6  APP    BPCDT     -20090626ABL
 08   WNJB     NEW BRUNSWICK NJ         218.0  CP MOD BMPEDT    -20070125ACC
 08   WNJB     NEW BRUNSWICK NJ         199.7  PLN    DTVPLN    -DTVP0149
 08   WWCP-TV  JOHNSTOWN PA             339.9  CP MOD BMPCDT    -20080620AIX
 08   WWCP-TV  JOHNSTOWN PA             339.9  PLN    DTVPLN    -DTVP0160
 08   WGAL     LANCASTER PA             231.7  PLN    DTVPLN    -DTVP0161
 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:      117
Scenario        1  Affected station        7
Before Analysis

Results for:  8A NY BINGHAMTON           DTVPLN    DTVP0153     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        7951        295.9
   lost to ATV IX only                 7951        295.9
   lost to all IX                      7951        295.9

 Potential Interfering Stations Included in above Scenario     1

 7A NY BINGHAMTON           BLCDT     20060329ACH  LIC
 8A NJ NEW BRUNSWICK        BMPEDT    20070125ACC  CP
 8A PA LANCASTER            DTVPLN    DTVP0161     PLN

After Analysis

Results for:  8A NY BINGHAMTON           DTVPLN    DTVP0153     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       11108        323.9
   lost to ATV IX only                11108        323.9
   lost to all IX                     11108        323.9

 Potential Interfering Stations Included in above Scenario     1

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

Percent new IX =    0.4187%

Worst case new IX    0.4187% Scenario      1

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


     Analysis of Interference to Affected Station   8


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    -20080620AIH
 07   WJLA-TV  WASHINGTON DC            224.1  PLN    DTVPLN    -DTVP0053
 07   WTRF-TV  WHEELING WV              136.7  CP MOD BMPCDT    -20080620ALK
```

Table 1 WGAL(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 11 of 20)

07	WTRF-TV	WHEELING WV	136.7	PLN	DTVPLN	-DTVP0109
08	WNJB	NEW BRUNSWICK NJ	396.3	PLN	DTVPLN	-DTVP0149
08	WICZ-TV	BINGHAMTON NY	339.9	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	339.9	PLN	DTVPLN	-DTVP0153
08	WJW	CLEVELAND OH	252.7	CP MOD	BMPCDT	-20080620AHI
08	WJW	CLEVELAND OH	252.7	PLN	DTVPLN	-DTVP0154
08	WLIO	LIMA OH	425.8	CP MOD	BMPCDT	-20060517ABE
08	WLIO	LIMA OH	425.8	PLN	DTVPLN	-DTVP0155
08	WGAL	LANCASTER PA	215.9	PLN	DTVPLN	-DTVP0161
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	CP MOD	BMPCDT	-20080425ABL
09	WUSA	WASHINGTON DC	224.1	PLN	DTVPLN	-DTVP0188
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: 125
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	DTVP0154	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	DTVPLN	DTVP0161	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
not affected by terrain losses	2625311	22984.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	21523	293.4
lost to ATV IX only	21523	293.4
lost to all IX	21523	293.4

Potential Interfering Stations Included in above Scenario 5

7A WV WHEELING	BMPCDT	20080620ALK	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A OH CLEVELAND	DTVPLN	DTVP0154	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	USERRECORD01		APP

Table 1 WGAL(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 12 of 20)

Percent new IX = 0.0739%

Worst case new IX 0.0739% Scenario 5

##

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WWCP-TV	JOHNSTOWN PA	DTVPLN	-DTVP0160

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	-20080620AIH
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	-DTVP0109
08	WNJB	NEW BRUNSWICK NJ	396.3	PLN	DTVPLN	-DTVP0149
08	WICZ-TV	BINGHAMTON NY	339.9	LIC	BLCDT	-20060320AFC
08	WICZ-TV	BINGHAMTON NY	339.9	PLN	DTVPLN	-DTVP0153
08	WJW	CLEVELAND OH	252.7	CP MOD	BMPCDT	-20080620AHI
08	WJW	CLEVELAND OH	252.7	PLN	DTVPLN	-DTVP0154
08	WLIO	LIMA OH	425.8	CP MOD	BMPCDT	-20060517ABE
08	WLIO	LIMA OH	425.8	PLN	DTVPLN	-DTVP0155
08	WGAL	LANCASTER PA	215.9	PLN	DTVPLN	-DTVP0161
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	CP MOD	BMPCDT	-20080425ABL
09	WUSA	WASHINGTON DC	224.1	PLN	DTVPLN	-DTVP0188
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 = 8

Result key: 157
Scenario 5 Affected station 9
Before Analysis

Results for: 8A PA JOHNSTOWN DTVPLN DTVP0160 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	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	DTVP0154	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	DTVPLN	DTVP0161	PLN

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

After Analysis

Results for: 8A PA JOHNSTOWN DTVPLN DTVP0160 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	27846	273.3
lost to ATV IX only	27846	273.3
lost to all IX	27846	273.3

Potential Interfering Stations Included in above Scenario 5

7A WV WHEELING	BMPCDT	20080620ALK	CP
8A OH CLEVELAND	DTVPLN	DTVP0154	PLN
8A WV LEWISBURG	BMPCDT	20040608ABO	CP
9A OH STEUBENVILLE	BMPCDT	20080619ABG	CP
8A PA LANCASTER	USERRECORD01		APP

Percent new IX = 0.0892%

Worst case new IX 0.0892% Scenario 5

##

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

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 -DTVP0160
08	WGAL	LANCASTER PA	126.8	PLN	DTVPLN -DTVP0161
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: 161
Scenario 1 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 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	DTVP0161	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	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 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 = 0.0000%

Worst case new IX 0.0000% Scenario 1

##

Analysis of Interference to Affected Station 11

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 -DTVP0160
08	WGAL	LANCASTER PA	126.8	PLN	DTVPLN -DTVP0161
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

Table 1 WGAL(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 15 of 20)

```
 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:      173
Scenario        1  Affected station       11
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     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     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    DTVP0161     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     7351660      26015.6
   not affected by terrain losses   7251458      24259.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       52817        772.1
   lost to ATV IX only                52817        772.1
   lost to all IX                     52817        772.1

 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            USERRECORD01           APP

Percent new IX =    0.0029%

Worst case new IX    0.0029% Scenario      1

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     Analysis of Interference to Affected Station  12


Analysis of current record
Channel     Call          City/State        Application Ref. No.
```

Table 1 WGAL(DT) OET Bulletin 69 Interference Study
(worst-case scenarios shown page 16 of 20)

```
   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    -DTVP0149
 08   WICZ-TV  BINGHAMTON NY             171.1  LIC    BLCDT     -20060320AFC
 08   WICZ-TV  BINGHAMTON NY             171.1  PLN    DTVPLN    -DTVP0153
 08   WGAL     LANCASTER PA              116.0  PLN    DTVPLN    -DTVP0161
 09   WEDN     NORWICH CT                294.2  CP     BPEDT     -20080619AFA
 09   WEDN     NORWICH CT                294.2  PLN    DTVPLN    -DTVP0187
 09   WUSA     WASHINGTON DC             227.6  CP MOD BMPCDT    -20080425ABL
 09   WUSA     WASHINGTON DC             227.6  PLN    DTVPLN    -DTVP0188
 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 =   4

Result key:      187
Scenario        3  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     6449446      18459.0
   not affected by terrain losses   5831102      16686.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       620081       1004.6
   lost to ATV IX only                620081       1004.6
   lost to all IX                     620081       1004.6

 Potential Interfering Stations Included in above Scenario     3

 8A NJ NEW BRUNSWICK        DTVPLN    DTVP0149     PLN
 9A CT NORWICH              BPEDT     20080619AFA  CP
 9A DC WASHINGTON           BMPCDT    20080425ABL  CP
10A PA HARRISBURG           BPCDT     20080620AGL  CP
 8A PA LANCASTER            DTVPLN    DTVP0161     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     6449446      18459.0
   not affected by terrain losses   5831102      16686.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       625351       1028.6
   lost to ATV IX only                625351       1028.6
   lost to all IX                     625351       1028.6

 Potential Interfering Stations Included in above Scenario     3

 8A NJ NEW BRUNSWICK        DTVPLN    DTVP0149     PLN
```

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

```
 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 =    0.1011%

Worst case new IX    0.1011% Scenario      3

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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    -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    -DTVP0149
 08   WICZ-TV  BINGHAMTON NY             171.1  LIC    BLCDT     -20060320AFC
 08   WICZ-TV  BINGHAMTON NY             171.1  PLN    DTVPLN    -DTVP0153
 08   WGAL     LANCASTER PA              116.0  PLN    DTVPLN    -DTVP0161
 09   WEDN     NORWICH CT                294.2  CP     BPEDT     -20080619AFA
 09   WEDN     NORWICH CT                294.2  PLN    DTVPLN    -DTVP0187
 09   WUSA     WASHINGTON DC             227.6  CP MOD BMPCDT    -20080425ABL
 09   WUSA     WASHINGTON DC             227.6  PLN    DTVPLN    -DTVP0188
 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 =   4

Result key:      191
Scenario       3  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     6449446      18459.0
   not affected by terrain losses   5831102      16686.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      620081       1004.6
   lost to ATV IX only               620081       1004.6
   lost to all IX                    620081       1004.6

 Potential Interfering Stations Included in above Scenario     3

 8A NJ NEW BRUNSWICK        DTVPLN    DTVP0149     PLN
 9A CT NORWICH              BPEDT     20080619AFA  CP
 9A DC WASHINGTON           BMPCDT    20080425ABL  CP
10A PA HARRISBURG           BPCDT     20080620AGL  CP
```

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

```
 8A PA LANCASTER            DTVPLN    DTVP0161     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     6449446      18459.0
   not affected by terrain losses   5831102      16686.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      625351       1028.6
   lost to ATV IX only               625351       1028.6
   lost to all IX                    625351       1028.6

 Potential Interfering Stations Included in above Scenario     3

 8A NJ NEW BRUNSWICK        DTVPLN    DTVP0149     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 =    0.1011%

Worst case new IX    0.1011% Scenario      3

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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    -DTVP0149
 08   WICZ-TV  BINGHAMTON NY             171.1  LIC    BLCDT     -20060320AFC
 08   WICZ-TV  BINGHAMTON NY             171.1  PLN    DTVPLN    -DTVP0153
 08   WGAL     LANCASTER PA              116.0  PLN    DTVPLN    -DTVP0161
 09   WEDN     NORWICH CT                294.2  CP     BPEDT     -20080619AFA
 09   WEDN     NORWICH CT                294.2  PLN    DTVPLN    -DTVP0187
 09   WUSA     WASHINGTON DC             227.6  CP MOD BMPCDT    -20080425ABL
 09   WUSA     WASHINGTON DC             227.6  PLN    DTVPLN    -DTVP0188
 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 =   24

Result key:      205
Scenario       13  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    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    13

 8A NJ NEW BRUNSWICK        DTVPLN    DTVP0149     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    DTVP0161     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     1598620       2154.2
   lost to ATV IX only              1598620       2154.2
   lost to all IX                   1598620       2154.2

 Potential Interfering Stations Included in above Scenario    13

 8A NJ NEW BRUNSWICK        DTVPLN    DTVP0149     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            USERRECORD01           APP

Percent new IX =    0.3127%

Worst case new IX    0.3127% Scenario     13

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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  CP MOD BMPCDT    -20080620AIH
 07   WJLA-TV  WASHINGTON DC            126.8  PLN    DTVPLN    -DTVP0053
 08   WNJB     NEW BRUNSWICK NJ         236.8  CP MOD BMPEDT    -20070125ACC
 08   WNJB     NEW BRUNSWICK NJ         190.7  PLN    DTVPLN    -DTVP0149
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 08   WICZ-TV  BINGHAMTON NY            231.7  LIC    BLCDT     -20060320AFC
 08   WICZ-TV  BINGHAMTON NY            231.7  PLN    DTVPLN    -DTVP0153
 08   WWCP-TV  JOHNSTOWN PA             215.9  CP MOD BMPCDT    -20080620AIX
 08   WWCP-TV  JOHNSTOWN PA             215.9  PLN    DTVPLN    -DTVP0160
 09   WUSA     WASHINGTON DC            126.8  CP MOD BMPCDT    -20080425ABL
 09   WUSA     WASHINGTON DC            126.8  PLN    DTVPLN    -DTVP0188
 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:      217
Scenario        1  Affected station       15
Before Analysis

Results for:  8A PA LANCASTER            USERRECORD01           APP
   HAAT  419.0 m, ATV ERP   14.1 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour     6104744      33947.1
   not affected by terrain losses   5418701      29758.6
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      224097        669.2
   lost to ATV IX only               224097        669.2
   lost to all IX                    224097        669.2

 Potential Interfering Stations Included in above Scenario     1

 7A DC WASHINGTON           BMPCDT    20080620AIH  CP
 8A NJ NEW BRUNSWICK        BMPEDT    20070125ACC  CP
 8A NY BINGHAMTON           BLCDT     20060320AFC  LIC
 8A PA JOHNSTOWN            BMPCDT    20080620AIX  CP
 9A DC WASHINGTON           BMPCDT    20080425ABL  CP
 9A PA BETHLEHEM            BLCDT     20060609AAH  LIC

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

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

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

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

1.	The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:	
	(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	(•) Yes ( ) No
	(b) It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622.	( ) Yes ( ) No
	(c) It will operate a pre-transition facility with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622.	( ) Yes ( ) No
	(d) It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B").	( ) Yes (•) No ( ) N/A
	(e) It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B.	(•) Yes ( ) No ( ) N/A
2.	The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Applicant must **submit the Exhibit** called for in Item 13.	(•) Yes ( ) No
3.	Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community.	(•) Yes ( ) No
4.	The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable.	(•) Yes ( ) No
5.	The antenna structure to be used by this facility has been registered by the Commission and will not require registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	(•) Yes ( ) No

SECTION III-D - DTV Engineering

TECHNICAL SPECIFICATIONS
Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1.	Channel Number: DTV 8 Analog TV, if any	
2.	Zone: (•) I ( ) II ( ) III	
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 40 Minutes 02 Seconds 04 (•) North ( ) South Longitude: Degrees 76 Minutes 37 Seconds 08 (•) West ( ) East	
4.	Antenna Structure Registration Number: 1031756 ☐ Not Applicable ☐ 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):	14.1 kW

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

PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.

SECTION III - PREPARER'S CERTIFICATION

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

Name JOSEPH M. DAVIS, P.E.	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature	Date 7/10/2009	
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	