



**STATEMENT OF JOHN E. HIDLE, P.E.  
IN SUPPORT OF AN APPLICATION FOR  
CONSTRUCTION PERMIT  
WABC-TV - NEW YORK, NEW YORK  
CH. 7 - 34.0 kW - 405 meters HAAT**

Prepared for: AMERICAN BROADCASTING COMPANIES, INC.

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Licensed Professional Engineer in the Commonwealth of Virginia, License No. 7418, and in the State of New York, License No. 63418.

**GENERAL**

This office has been authorized by AMERICAN BROADCASTING COMPANIES, INC. ("ABC"), licensee of station WABC-TV, channel 7, New York, New York, to prepare this statement, FCC Form 301, Section III-D, and the associated exhibits, in support of an application for construction permit. It is proposed herein only to increase WABC-TV's authorized Effective Radiated Power (ERP) from 26.9 kW to 34.0 kW. No other change is proposed.

**PURPOSE OF APPLICATION**

WABC-TV seeks the proposed increase in ERP in order to assist in its efforts to overcome serious reception problems that its viewers have suffered, and continue even to this day to suffer, since June 12, 2009, the DTV transition date. A very substantial body of serious reception problems suffered by digital television stations broadcasting on the VHF channels is well documented, both before and, especially after June 12, 2009.

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Immediately after the June 12, 2009 transition to digital broadcasting on channel 7 significant numbers of viewers who were accustomed to watching WABC-TV analog signal over-the-air called the WABC DTV Help Center or the FCC's DTV Help Center to report difficulties in receiving WABC-TV's digital signal on channel 7. There might be several possible causes for the documented viewer difficulties. ABC is convinced that the major cause for these difficulties is a significantly weaker digital signal.

Two weeks after the DTV transition on June 12, 2009, in an attempt to restore service to those former analog viewers who were unable to receive a usable digital signal, ABC filed an application for construction permit, BPCDT-20090626ABL, to increase WABC-TV's ERP from 11.69 kW to 27 kW. Eventually, following months of planning, design work and negotiation of an interference acceptance agreement with two other stations, ABC requested a Special Temporary Authorization, BDSTA-20100108ACK, to increase WABC-TV's ERP to 26.9 kW. That STA request was granted on January 28, 2010. Subsequently the construction permit which authorized an ERP of 26.9 kW was granted on March 7, 2011, and WABC-TV's current license, BLCDT-20110503ACF, was granted on September 2, 2011.

Even though WABC-TV has, for the past two years, been broadcasting using the increased ERP of 26.9 kW, it has become evident that the former ERP increase has not solved all of the reception difficulties experienced by WABC-TV's former analog viewers. Searching for more effective solutions ABC has diligently pursued negotiations with three other TV stations, which operate on channel 7 in New York State, to secure a joint

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interference acceptance agreement pursuant to which all four stations agree to accept any interference which is predicted to result from a mutual ERP increase which is intended to benefit the viewers of all four stations. The signed agreement among WABC-TV, channel 7, New York, New York; WBNG-TV, channel 7, Binghamton, New York; WWNY-TV, channel 7, Carthage, New York; and WXXA-TV, channel 7, Albany, New York, is included herein. Significantly ABC's instant proposal seeking an ERP of 34 kW for WABC-TV also complies with the terms of a previous interference acceptance agreement among WABC-TV, WNJB, channel 8, New Brunswick, New Jersey, and WGAL, channel 8, Lancaster, Pennsylvania.

**AUTHORIZED FACILITY**

WABC-TV's current authorization permits a facility with an ERP of 26.9 kW at a Height Above Average Terrain (HAAT) of 405 meters. WABC-TV's authorized antenna is a Dielectric Model THA-O4-2H/8UD2SP-2-HM channel 7 omni-directional horizontally polarized antenna. The antenna is mounted on the Empire State Building in New York City, FCC registration number 1007048, with its radiation center line located 403 meters above ground level. The authorized antenna employs an electrical beam-tilt of 3 degrees below the horizontal plane. The manufacturer's elevation plane radiation pattern is shown in exhibits 1 and 2, and is tabulated in exhibit 3.

**ALLOCATION CONSIDERATIONS**

An allocation study was performed using the Commission's revised application processing and interference analysis software, the results of which are shown in Appendix B. Of the potentially affected stations listed, only the stations that are the subjects of the interference acceptance agreements are predicted to receive new interference in excess of the 0.5% new interference, permitted in Section 73.616(e) of the Commission's Rules.

**Class A Television Allocation Considerations**

The allocation study, shown in Appendix B, revealed contour overlap to Class A station W07BV, channel 7, Wilkes-Barre, Pennsylvania, BLTVL-19930202IE. However, the study predicts no new interference from WABC-TV's instant proposal to W07BV, nor to any other authorized Class A LPTV station, as required in Section 73.616(f) of the FCC's Rules. The instant proposal is, therefore, in compliance with Section 73.616(f).

**AM Radio Station Considerations**

The study shows that WABC-TV's "proposed station is OK toward AM broadcast stations".

**WAIVER REQUEST & JUSTIFICATION**

The ERP of 34 kW, as proposed herein, exceeds the maximum permitted ERP for stations that are located in Zone I, and operate on VHF channels 7 - 13, as set forth in Section 73.622(f)(7)(ii). Additionally, WABC-TV's current authorization, 26.9 kW @ 405 meters HAAT, is currently the station with the largest geographic coverage area in the market. The proposed increase in ERP to 34 kW is necessary in order to attempt to

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restore and provide adequate service to those former analog viewers whose reception difficulties have not yet been satisfactorily resolved. ABC therefore requests a waiver of Section 73.622(f)(7)(ii), and also to the extent necessary, Section 73.622(f)(5) of the Commission's Rules.

In a related matter, the FCC has proposed<sup>1</sup> to increase the maximum permitted ERP for all VHF stations that are located in Zone I by a factor of four (6dB). In paragraph 48 in the NPRM it is stated in part: "...We are specifically proposing to raise the nominal maximum allowed ERP for low-VHF stations in Zones I to 40 kW and for high-VHF stations in Zone I to 120 kW ..." Given WABC-TV's HAAT of 405 meters, the formula in the proposed Section 73.622(f)(7)(i) would allow WABC-TV a maximum ERP of 46.5 kW.

Considering the urgency to restore acceptable service to former analog viewers who have been unable to resolve their reception difficulties, ABC urges the Commission to waive the pertinent rules and grant the instant application.

**PREDICTED COVERAGE CONTOURS**

The predicted coverage contours were calculated in accordance with the method described in Section 73.684 of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site was determined using the National

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<sup>1</sup> See *Innovation in the Broadcast Television Bands: Allocations, Channel Sharing and Improvements to VHF*, Notice of Proposed Rule Making in ET Docket No. 10-235, FCC 10-196 (2010) paragraph 48.

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Geophysical Data Center Thirty Second Point Database (TPG-0050) as prescribed in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 4 contains the predicted DTV Noise Limited (36 dBu) contour and the predicted principal community (43 dBu) contour. The predicted 43 dBu contour entirely encompasses the principal community, New York City, New York.

**BLANKETING AND INTERMODULATION INTERFERENCE**

Other broadcast and non-broadcast technical facilities are co-located with, or located within 10 km of the proposed WABC-TV transmitter/antenna site. The applicant recognizes its responsibility to remedy complaints of interference which might result from this proposal in accordance with applicable Rules.

**RADIO FREQUENCY IMPACT**

Effective October 15, 1997, the FCC adopted modified guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions. The guidelines are generally based on recommendations by the National Council on Radiation Protection and Measurements (NCRP) in NCRP Report No. 86 (1986) and by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, LLC (IEEE) in ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The guidelines establish maximum permissible exposure (MPE) levels for both occupational or "controlled" environments, as well as for "uncontrolled" environments such that apply in cases that could affect the general public. The FCC Office of Engineering and Technology's technical bulletin No. 65 entitled,

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"Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields" (DA 04-319, February 6, 2004), provides assistance in the determination of whether FCC-regulated transmitting facilities, operations or devices comply with guideline limits for human exposure to radio frequency electromagnetic fields as adopted by the Commission in 1996. Bulletin No. 65 provides the technical data required to evaluate compliance with the FCC's policies and guidelines.

The FCC's Maximum Permitted Exposure (MPE) level established for "uncontrolled" environments is 0.2 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) when applied to broadcast facilities operating between 30 MHz and 300 MHz, and for broadcast facilities operating between 300 MHz and 1500 MHz, primarily UHF TV stations, the MPE is derived from the formula,  $(\text{frequency (MHz)}/1500)$ . The MPE level that is established for occupational, or "controlled" environments is 1.0 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) for operations between 30 MHz and 300 MHz, and for broadcast stations operating between 300 MHz and 1500 MHz the MPE is derived from the formula,  $(\text{frequency (MHz)}/300)$ .

The proposed WABC-TV operation at the Empire State Building will comply with the FCC's rules and guidelines pertaining to human exposure to electromagnetic energy. The Empire State Building has established policies and procedures and has defined certain areas as controlled areas where access by all persons is restricted unless certain facilities cease operation, change antennas or reduce power. A procedure to notify tenants of a required shutdown has been developed. As a lessee, ABC is subject to the Empire State Building's RF Safety Program which is modified periodically as facility modifications occur.

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The predicted emissions of WABC-TV operating on channel 7 must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WABC-TV, which will operate on television channel 7 (174-180 MHz), the MPE is 0.200 milliwatts per centimeter squared ( $\text{mW}/\text{cm}^2$ ) in an “uncontrolled” environment and 1.000  $\text{mW}/\text{cm}^2$  in a “controlled” environment. The proposed WABC-TV facility will operate with a maximum ERP of 34 kW using a horizontally polarized omni-directional transmitting antenna with a centerline height of 403 meters above ground level (AGL). Considering the antenna’s vertical plane relative field factor of 0.2, the WABC-TV facility is predicted to produce a power density at two meters above ground level of  $0.00028 \text{ mW}/\text{cm}^2$ , which is 0.14% of the FCC guideline value for an “uncontrolled” environment, and 0.028% of the FCC’s guideline value for “controlled” environments. (See Appendix A)

There are eleven other full-service DTV stations, and eighteen FM radio stations that are authorized to be located at the site, or within the relevant proximity of 315 meters. The total percentage of the ANSI value at the proposed site, including the cumulative radiation, based on a field factor of 0.3 for TV stations and 1.0 for FM stations, from all post-transition television and FM radio broadcast stations within the relevant proximity is 48.83% of the limit for “uncontrolled” environments, and 9.77% of the limit for “controlled” environments.

**OCCUPATIONAL SAFETY**

In accordance with its obligations as a lessee at the Empire State Building to comply with the building’s RF Safety Program, the applicant is committed to the protection of



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station personnel and/or tower contractors working on the tower support structure, or in the vicinity of the proposed WABC-TV antenna, by reducing power and/or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure the proper protection of persons who might be required to perform their assigned tasks in this "controlled" environment.

**SUMMARY**

It is submitted that the instant application for construction permit for WABC-TV seeking to increase its authorized ERP from 26.9 kW to 34.0 kW, as described herein, except in the instance(s) where waiver(s) exist, and/or are requested, complies with the Rules, Regulations, and Policies of the Federal Communications Commission. This statement, FCC Form 301, Section III-D, and the attached exhibits were prepared by me, or under my direct supervision, and are believed to be true and correct to the best of my knowledge and belief.

DATED: February 10, 2012

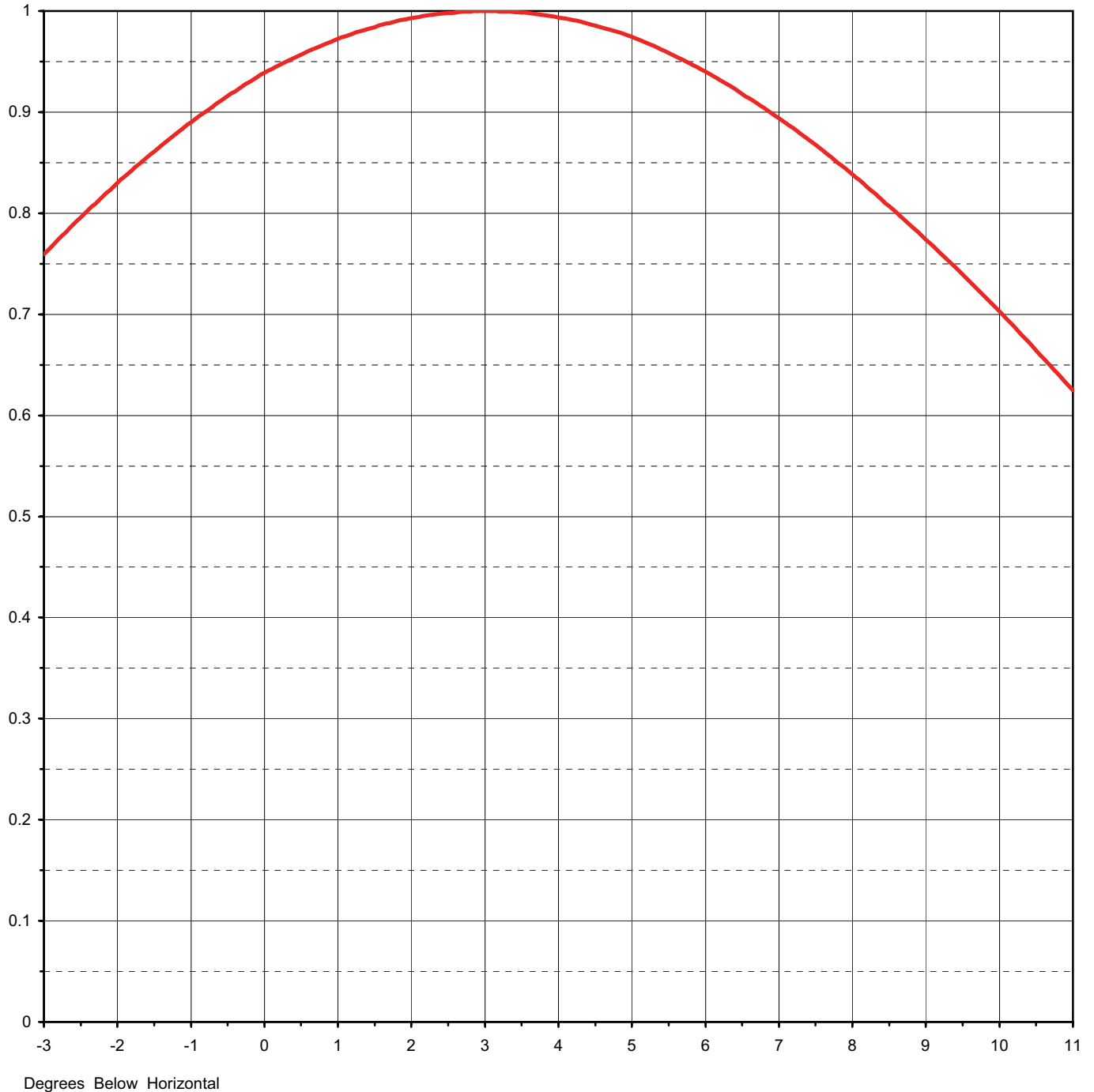




Proposal Number	<b>DCA-10218</b>	Revision:	<b>4</b>
Date	<b>20-Dec-04</b>	<b>Exhibit 1</b>	
Call Letters		Channel	<b>7</b>
Location	<b>New York, NY</b>		
Customer			
Antenna Type	<b>THA-O4-2H/8UD2SP-2-HM</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>4.10</b>	<b>( 6.13 dB )</b>	Beam Tilt	<b>3.00 deg</b>
RMS Gain at Horizontal	<b>3.60</b>	<b>( 5.56 dB )</b>	Frequency	<b>177.00 MHz</b>
Calculated / Measured	<b>Calculated</b>		Drawing #	<b>04H041300</b>

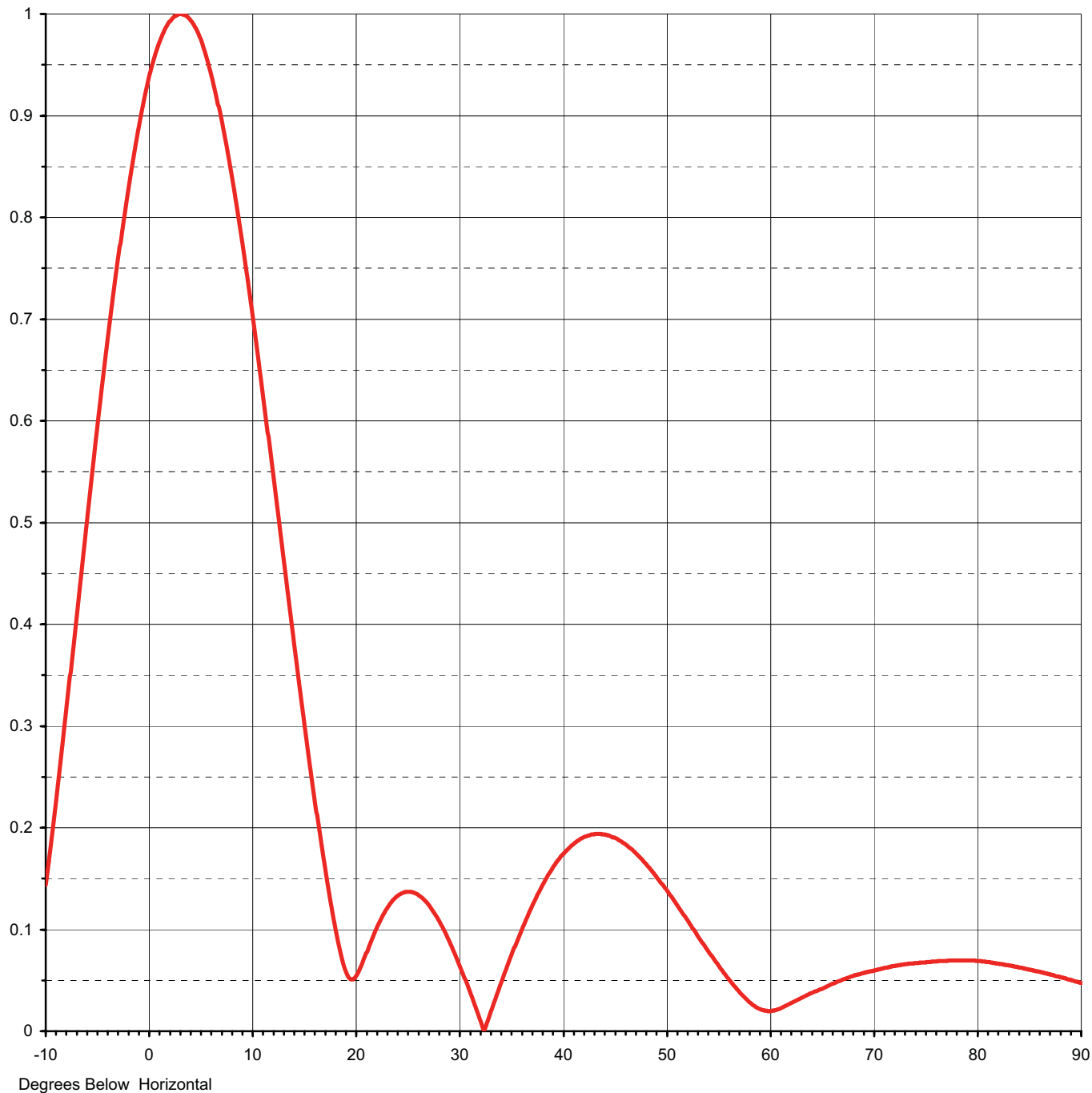




Proposal Number	<b>DCA-10218</b>	Revision:	<b>4</b>
Date	<b>20-Dec-04</b>	<b>Exhibit 2</b>	
Call Letters		Channel	<b>7</b>
Location	<b>New York, NY</b>		
Customer			
Antenna Type	<b>THA-O4-2H/8UD2SP-2-HM</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>4.10</b>	<b>( 6.13 dB )</b>	Beam Tilt	<b>3.00 deg</b>
RMS Gain at Horizontal	<b>3.60</b>	<b>( 5.56 dB )</b>	Frequency	<b>177.00 MHz</b>
Calculated / Measured	<b>Calculated</b>		Drawing #	<b>04H041300-90</b>



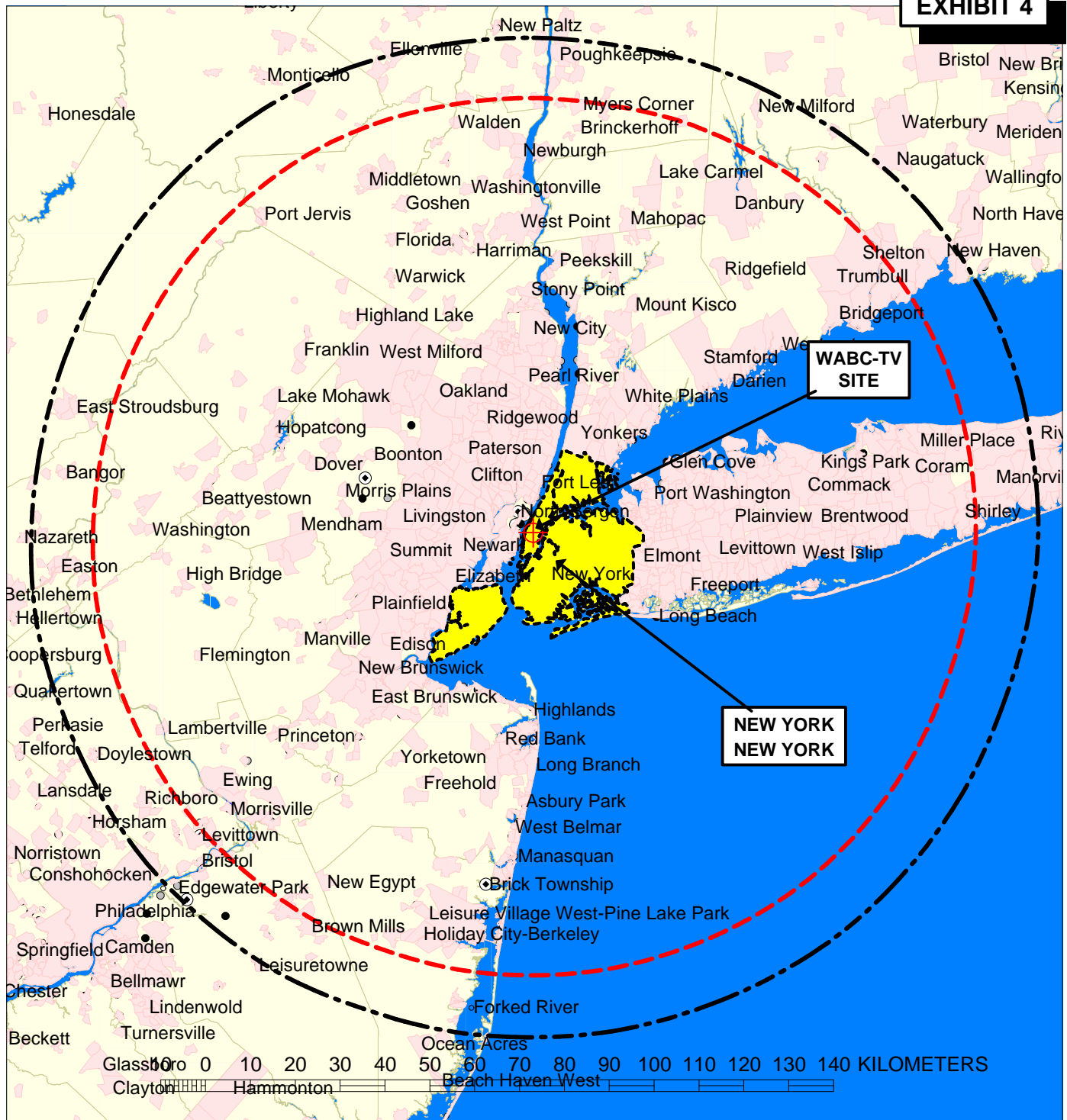


Proposal Number **DCA-10218** Revision: **4**  
Date **20-Dec-04** **Exhibit 3**  
Call Letters Channel **7**  
Location **New York, NY**  
Customer  
Antenna Type **THA-O4-2H/8UD2SP-2-HM**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **04H041300-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.144	2.4	0.997	10.6	0.664	30.5	0.054	51.0	0.125	71.5	0.063
-9.5	0.183	2.6	0.999	10.8	0.649	31.0	0.040	51.5	0.118	72.0	0.064
-9.0	0.225	2.8	1.000	11.0	0.633	31.5	0.026	52.0	0.110	72.5	0.065
-8.5	0.270	3.0	1.000	11.5	0.592	32.0	0.012	52.5	0.102	73.0	0.066
-8.0	0.316	3.2	1.000	12.0	0.552	32.5	0.002	53.0	0.095	73.5	0.066
-7.5	0.363	3.4	0.999	12.5	0.511	33.0	0.016	53.5	0.087	74.0	0.067
-7.0	0.410	3.6	0.998	13.0	0.470	33.5	0.031	54.0	0.080	74.5	0.067
-6.5	0.457	3.8	0.996	13.5	0.429	34.0	0.045	54.5	0.072	75.0	0.068
-6.0	0.504	4.0	0.994	14.0	0.388	34.5	0.059	55.0	0.065	75.5	0.068
-5.5	0.550	4.2	0.991	14.5	0.348	35.0	0.073	55.5	0.058	76.0	0.069
-5.0	0.596	4.4	0.988	15.0	0.309	35.5	0.086	56.0	0.052	76.5	0.069
-4.5	0.639	4.6	0.984	15.5	0.271	36.0	0.098	56.5	0.045	77.0	0.069
-4.0	0.681	4.8	0.979	16.0	0.234	36.5	0.110	57.0	0.040	77.5	0.069
-3.5	0.721	5.0	0.975	16.5	0.198	37.0	0.122	57.5	0.034	78.0	0.069
-3.0	0.760	5.2	0.969	17.0	0.164	37.5	0.132	58.0	0.029	78.5	0.069
-2.8	0.774	5.4	0.962	17.5	0.133	38.0	0.142	58.5	0.025	79.0	0.069
-2.6	0.789	5.6	0.955	18.0	0.105	38.5	0.151	59.0	0.022	79.5	0.069
-2.4	0.803	5.8	0.948	18.5	0.080	39.0	0.159	59.5	0.020	80.0	0.069
-2.2	0.817	6.0	0.940	19.0	0.061	39.5	0.167	60.0	0.020	80.5	0.068
-2.0	0.830	6.2	0.932	19.5	0.051	40.0	0.173	60.5	0.021	81.0	0.068
-1.8	0.843	6.4	0.923	20.0	0.053	40.5	0.179	61.0	0.022	81.5	0.067
-1.6	0.855	6.6	0.914	20.5	0.062	41.0	0.184	61.5	0.024	82.0	0.066
-1.4	0.867	6.8	0.904	21.0	0.075	41.5	0.187	62.0	0.027	82.5	0.066
-1.2	0.879	7.0	0.894	21.5	0.088	42.0	0.190	62.5	0.030	83.0	0.065
-1.0	0.890	7.2	0.884	22.0	0.100	42.5	0.192	63.0	0.032	83.5	0.064
-0.8	0.901	7.4	0.873	22.5	0.111	43.0	0.193	63.5	0.035	84.0	0.063
-0.6	0.911	7.6	0.862	23.0	0.120	43.5	0.194	64.0	0.037	84.5	0.062
-0.4	0.921	7.8	0.850	23.5	0.127	44.0	0.193	64.5	0.040	85.0	0.060
-0.2	0.930	8.0	0.838	24.0	0.132	44.5	0.192	65.0	0.042	85.5	0.059
0.0	0.939	8.2	0.826	24.5	0.136	45.0	0.190	65.5	0.044	86.0	0.058
0.2	0.947	8.4	0.813	25.0	0.137	45.5	0.188	66.0	0.047	86.5	0.057
0.4	0.954	8.6	0.801	25.5	0.137	46.0	0.184	66.5	0.049	87.0	0.056
0.6	0.961	8.8	0.788	26.0	0.134	46.5	0.180	67.0	0.051	87.5	0.054
0.8	0.967	9.0	0.774	26.5	0.130	47.0	0.176	67.5	0.053	88.0	0.053
1.0	0.972	9.2	0.760	27.0	0.125	47.5	0.171	68.0	0.054	88.5	0.052
1.2	0.978	9.4	0.746	27.5	0.118	48.0	0.165	68.5	0.056	89.0	0.050
1.4	0.982	9.6	0.732	28.0	0.110	48.5	0.159	69.0	0.057	89.5	0.049
1.6	0.986	9.8	0.725	28.5	0.101	49.0	0.153	69.5	0.058	90.0	0.047
1.8	0.990	10.0	0.710	29.0	0.090	49.5	0.146	70.0	0.060		
2.0	0.993	10.2	0.695	29.5	0.079	50.0	0.139	70.5	0.061		
2.2	0.995	10.4	0.680	30.0	0.067	50.5	0.132	71.0	0.062		



## PREDICTED COVERAGE CONTOURS

**WABC-TV, NEW YORK, NEW YORK**

**DTV - CH. 7 - 34.0 kW - 405 m HAAT**

**Predicted Principal Community Contour**

**F(50,90) - 43 dBu**

**Area = 29,425 sq km**

**Population = 19,936,833**

**FEBRUARY 2012**



**Predicted Noise Limited Contour**

**F(50,90) - 36 dBu**

**Area = 38,275 sq km**

**Population = 21,286,632**

APPENDIX A  
**SUMMARY OF RADIOFREQUENCY RADIATION STUDY**  
**WABC-TV, NEW YORK, NEW YORK**  
**CHANNEL 7, 34 kW ERP, 405 m HAAT**  
FEBRUARY, 2012

CALL	SERVICE	CHANNEL	FREQUENCY	POLARIZATION	ANTENNA HEIGHT ** mAGL	ERP (kW)	VERT. RELATIVE FIELD FACTOR	PREDICTED POWER DENSITY (mW/cm <sup>2</sup> )	FCC UNCONTROLLED LIMIT (mW/cm <sup>2</sup> )	PERCENT OF UNCONTROLLED LIMIT
WABC-TV	DT	7	177	H	401	34.000	0.200	0.00028	0.200	0.14%
WPIX	DT	11	201	H	401	7.500	0.200	0.00006	0.200	0.03%
WNET	DT	13	213	H	401	9.300	0.200	0.00008	0.200	0.04%
WMBC-TV	DT	18	497	H	305	90.000	0.300	0.00291	0.331	0.88%
WNBC	DT	28	557	H & V	393	200.200	0.300	0.00779	0.371	2.10%
WFUT-DT	DT	30	569	H	425	200.000	0.300	0.00333	0.379	0.88%
WPXN-TV	DT	31	575	H & V	356	180.000	0.300	0.00854	0.383	2.23%
WCBS-TV	DT	33	587	H & V	393	426.000	0.300	0.01658	0.391	4.24%
WNJU	DT	36	605	H	436	650.000	0.300	0.01028	0.403	2.55%
WWOR-TV	DT	38	617	H & V	435	355.000	0.300	0.01128	0.411	2.74%
WXTV-DT	DT	40	629	H & V	425	360.000	0.300	0.01198	0.419	2.86%
WNYW	DT	44	653	H & V	363	990.000	0.300	0.04517	0.435	10.38%
WXRK	FM	222	92.3	H & V	411	6.000	1.000	0.00237	0.200	1.19%
WNYC-FM	FM	230	93.9	H & V	411	5.200	1.000	0.00206	0.200	1.03%
WPLJ	FM	238	95.5	H & V	404	6.700	1.000	0.00274	0.200	1.37%
WXNY-FM	FM	242	96.3	H & V	369	4.600	1.000	0.00226	0.200	1.13%
WQHT	FM	246	97.1	H & V	404	6.700	1.000	0.00274	0.200	1.37%
WSKQ-FM	FM	250	97.9	H & V	369	4.600	1.000	0.00226	0.200	1.13%
WRKS	FM	254	98.7	H & V	411	6.000	1.000	0.00237	0.200	1.19%
WBAI	FM	258	99.5	H & V	369	3.300	1.000	0.00162	0.200	0.81%
WHTZ	FM	262	100.3	H & V	411	6.000	1.000	0.00237	0.200	1.19%
WCBS-FM	FM	266	101.1	H & V	404	6.700	1.000	0.00274	0.200	1.37%
WEMP	FM	270	101.9	H & V	409	6.200	1.000	0.00248	0.200	1.24%
WWFS	FM	274	102.7	H & V	369	4.600	1.000	0.00226	0.200	1.13%
WKTU	FM	278	103.5	H & V	411	6.000	1.000	0.00237	0.200	1.19%
WAXO	FM	282	104.3	H & V	411	6.000	1.000	0.00237	0.200	1.19%
WWPR-FM	FM	286	105.1	H & V	411	6.000	1.000	0.00237	0.200	1.19%
WQXR-FM	FM	290	105.9	H & V	412	0.610	1.000	0.00024	0.200	0.12%
WLTW	FM	294	106.7	H & V	369	4.700	1.000	0.00231	0.200	1.15%
WBLS	FM	298	107.5	H & V	369	3.300	1.000	0.00162	0.200	0.81%

**TOTAL PERCENTAGE OF ANSI VALUE= 48.83%**

*\*\* The antenna heights indicated above are 2 meters less than the actual antenna heights  
so that the predicted power densities consider the 2 meter human height allowance.  
This evaluation includes facilities collocated at the site, and facilities located within 315 meters.*



**WABC-TV - APPENDIX B  
LONGLEY-RICE INTERFERENCE ANALYSIS  
FEBRUARY 2011**

Percent allowed new interference: 0.500  
Percent allowed new interference to non Class A LPTV: 2.000  
Census data selected 2000  
Data Base Selected  
./data/tvdb.sff  
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 01-16-2012 Time: 13:49:44

Record Selected for Analysis

WABC-TV BLCDT -NEWWABC34 NEW YORK NY US  
Channel 07 ERP 34.0 kW HAAT 405. m RCAMSL 418.5 m  
Latitude 040-44-54 Longitude 0073-59-10  
Status LIC Zone 1 Border C Site number: 01  
Last update 00000000 Cutoff date 20110902 Docket  
Comments  
Applicant AMERICAN BROADCASTING COMPANIES, INC

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) does not meet maximum height/power limits  
Channel 7 ERP = 34.00 HAAT = 405.

Site number 1			
Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	34.000	382.9	108.6
45.0	34.000	409.2	110.8
90.0	34.000	406.1	110.5
135.0	34.000	407.5	110.7
180.0	34.000	403.6	110.3
225.0	34.000	418.5	111.7
270.0	34.000	407.8	110.7
315.0	34.000	404.8	110.4

Evaluation toward Class A Stations from site # 01  
Contour overlap to Class A station  
W07BV 7 WILKES-BARRE, ETC. PA BLTVL 19930202IE  
Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WABC-TV 07 NEW YORK NY BLCDT NEWWABC34 Site # 01  
and station

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SHORT TO: WXXA-TV 07 ALBANY NY BLCDT NEWWXXA15  
042-37-31 0074-00-38

Req. separation 244.6 Actual separation 208.5 Short 36.1 km

SHORT TO: WBNG-TV 07 BINGHAMTON NY BLCDT NEWWBNG34  
042-03-31 0075-57- 6

Req. separation 244.6 Actual separation 219.5 Short 25.1 km

SHORT TO: W07BV 07 WILKESBARRE/PITTSTON PA BDFCDVA 20070607ACJ  
041-11-54 0075-49-12

Req. separation 244.6 Actual separation 162.2 Short 82.4 km

SHORT TO: WNJB 08 NEW BRUNSWICK NJ BLEDT 20110427ABF  
040-37-17 0074-30-15

Req. separation => 20.0 <= 110.0 Actual separation 46.0 Short 64.0 ( 26.0) km

SHORT TO: WABC-TV 07 NEW YORK NY DTVPLN DTVP0087  
040-42-43 0074-00-49

Req. separation 244.6 Actual separation 4.7 Short 239.9 km

### Checks to Site Number 01

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 = 395.7km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

\*\*\*\*\*

### Start of Interference Analysis

Channel	Call	City/State	ARN
07	WABC-TV	NEW YORK NY	BLCDT NEWWABC34

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	331.1	LIC	BLCDT	20110706ABC
07	WXXA-TV	ALBANY NY	208.6	LIC	BLCDT	NEWWXXA15
07	WBNG-TV	BINGHAMTON NY	219.2	LIC	BLCDT	NEWWBNG34
07	WWNY-TV	CARTHAGE NY	384.0	LIC	BLCDT	NEWWWNY42
07	W07BV	WILKES-BARRE, ETC. PA	161.8	LIC	BLTVL	19930202IE
07	W07BV	WILKESBARRE/PITTSTON PA	161.8	APP	BDFCDVA	20070607ACJ
08	WNJB	NEW BRUNSWICK NJ	45.9	LIC	BLEDT	20110427ABF
08	WICZ-TV	BINGHAMTON NY	218.6	LIC	BLCDT	20060320AFC

%%%



# WABC-TV - Appendix B

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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	BLCDT	-20110706ABC

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	358.4	LIC	BLCDT	-NEWWBNG34
07	WABC-TV	NEW YORK NY	331.1	LIC	BLCDT	-NEWWABC34
07	WBBZ-TV	SPRINGVILLE NY	425.2	LIC	BLCDT	-20100525AEW
07	WTPC-TV	VIRGINIA BEACH VA	243.4	LIC	BLCDT	-20090615ADP
07	WTRF-TV	WHEELING WV	338.3	LIC	BLCDT	-20090227ABV
08	WWCP-TV	JOHNSTOWN PA	224.1	LIC	BLCDT	-20090413AEM
08	WGAL	LANCASTER PA	126.8	APP	BPCDT	-20110516ACI
08	WGAL	LANCASTER PA	126.8	LIC	BLCDT	-20110323ABF
07	WABC-TV	NEW YORK NY	326.8	PLN	DTVPLN	-DTVP0087

Total scenarios = 2

Result key: 1

Scenario 1 Affected station 1  
Before Analysis

Results for: 7A DC WASHINGTON BLCDT 20110706ABC LIC

HAAT 235.0 m, ATV ERP 52.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7915401	32792.1
not affected by terrain losses	7627629	30383.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	52605	860.1
lost to ATV IX only	52605	860.1
lost to all IX	52605	860.1

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	NEWWBNG34	LIC
7A VA VIRGINIA BEACH	BLCDT	20090615ADP	LIC
7A WV WHEELING	BLCDT	20090227ABV	LIC
8A PA LANCASTER	BLCDT	20110323ABF	LIC
7A NY NEW YORK	DTVPLN	DTVP0087	PLN

#### After Analysis

Results for: 7A DC WASHINGTON BLCDT 20110706ABC LIC

HAAT 235.0 m, ATV ERP 52.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7915401	32792.1
not affected by terrain losses	7627629	30383.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	63437	956.1
lost to ATV IX only	63437	956.1
lost to all IX	63437	956.1

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Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	NEWWBNG34	LIC
7A VA VIRGINIA BEACH	BLCDT	20090615ADP	LIC
7A WV WHEELING	BLCDT	20090227ABV	LIC
8A PA LANCASTER	BLCDT	20110323ABF	LIC
7A NY NEW YORK	BLCDT	NEWWABC34	LIC

Percent new IX = 0.1430%

Result key: 2  
Scenario 2 Affected station 1  
Before Analysis

Results for: 7A DC WASHINGTON BLCDT 20110706ABC LIC

HAAT 235.0 m, ATV ERP 52.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7915401	32792.1
not affected by terrain losses	7627629	30383.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	61754	956.1
lost to ATV IX only	61754	956.1
lost to all IX	61754	956.1

Potential Interfering Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	NEWWBNG34	LIC
7A VA VIRGINIA BEACH	BLCDT	20090615ADP	LIC
7A WV WHEELING	BLCDT	20090227ABV	LIC
8A PA LANCASTER	BPCDT	20110516ACI	APP
7A NY NEW YORK	DTVPLN	DTVP0087	PLN

After Analysis

Results for: 7A DC WASHINGTON BLCDT 20110706ABC LIC

HAAT 235.0 m, ATV ERP 52.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7915401	32792.1
not affected by terrain losses	7627629	30383.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	72177	1044.1
lost to ATV IX only	72177	1044.1
lost to all IX	72177	1044.1

Potential Interfering Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	NEWWBNG34	LIC
7A VA VIRGINIA BEACH	BLCDT	20090615ADP	LIC
7A WV WHEELING	BLCDT	20090227ABV	LIC
8A PA LANCASTER	BPCDT	20110516ACI	APP
7A NY NEW YORK	BLCDT	NEWWABC34	LIC

Percent new IX = 0.1378%

Worst case new IX 0.1430% Scenario 1

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# WABC-TV - Appendix B

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### Analysis of Interference to Affected Station 2

#### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WXXA-TV	ALBANY NY	BLCDT	-NEWWXXA15

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	171.5	LIC	BLCDT	-NEWWBNG34
07	WWNY-TV	CARTHAGE NY	202.8	LIC	BLCDT	-NEWWWNY42
07	WABC-TV	NEW YORK NY	208.6	LIC	BLCDT	-NEWWABC34
07	WBBZ-TV	SPRINGVILLE NY	385.6	LIC	BLCDT	-20100525AEW
08	WNJB	NEW BRUNSWICK NJ	226.5	LIC	BLEDT	-20110427ABF
08	WICZ-TV	BINGHAMTON NY	171.0	LIC	BLCDT	-20060320AFC
07	WABC-TV	NEW YORK NY	212.7	PLN	DTVPLN	-DTVP0087

Total scenarios = 1

Result key: 3  
 Scenario 1 Affected station 2  
 Before Analysis

Results for: 7A NY ALBANY BLCDT NEWWXXA15 LIC  
 HAAT 434.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1729029	34978.1
not affected by terrain losses	1562645	29279.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	22435	1639.1
lost to ATV IX only	22435	1639.1
lost to all IX	22435	1639.1

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	NEWWBNG34	LIC
7A NY CARTHAGE	BLCDT	NEWWWNY42	LIC
7A NY NEW YORK	DTVPLN	DTVP0087	PLN

#### After Analysis

Results for: 7A NY ALBANY BLCDT NEWWXXA15 LIC  
 HAAT 434.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1729029	34978.1
not affected by terrain losses	1562645	29279.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	32585	1959.7
lost to ATV IX only	32585	1959.7
lost to all IX	32585	1959.7

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	NEWWBNG34	LIC
7A NY CARTHAGE	BLCDT	NEWWWNY42	LIC

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7A NY NEW YORK                      BLCDT              NEWWABC34              LIC

The following station failed the de minimis interference criteria.

7D NY NEW YORK                      BLCDT              NEWWABC34  
ERP    34.00 kW   HAAT    405.0 m   RCAMSL    418.5 m  
Antenna            9999999999999999

Due to interference to the following station and scenario:              1

7D NY ALBANY                      BLCDT              NEWWXXA15  
ERP    15.00 kW   HAAT    434.0 m   RCAMSL    692.0 m  
Antenna            9999999999999999

Percent new interference from proposal:              0.6590 to BLCDT              NEWWXXA15

Worst case new IX              0.6590% Scenario              1

#####

### Analysis of Interference to Affected Station              3

#### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	BLCDT	-NEWWBNG34

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	358.4	LIC	BLCDT	-20110706ABC
07	WXXA-TV	ALBANY NY	171.5	LIC	BLCDT	-NEWWXXA15
07	WWNY-TV	CARTHAGE NY	211.5	LIC	BLCDT	-NEWWWNY42
07	WABC-TV	NEW YORK NY	219.2	LIC	BLCDT	-NEWWABC34
07	WBBZ-TV	SPRINGVILLE NY	234.7	LIC	BLCDT	-20100525AEW
08	WNJB	NEW BRUNSWICK NJ	200.3	LIC	BLEDT	-20110427ABF
08	WICZ-TV	BINGHAMTON NY	0.7	LIC	BLCDT	-20060320AFC
07	WABC-TV	NEW YORK NY	220.3	PLN	DTVPLN	-DTVP0087

Total scenarios =              1

Result key:              4  
Scenario              1    Affected station              3  
Before Analysis

Results for:    7A NY BINGHAMTON                      BLCDT              NEWWBNG34              LIC

	POPULATION	AREA (sq km)
HAAT    342.0 m, ATV ERP    34.0 kW		
within Noise Limited Contour	1615919	35189.4
not affected by terrain losses	1102857	30374.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	39898	1483.6
lost to ATV IX only	39898	1483.6
lost to all IX	39898	1483.6

Potential Interfering Stations Included in above Scenario              1

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7A DC WASHINGTON	BLCDT	20110706ABC	LIC
7A NY ALBANY	BLCDT	NEWXXA15	LIC
7A NY CARTHAGE	BLCDT	NEWWWNY42	LIC
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
7A NY NEW YORK	DTVPLN	DTVP0087	PLN

## After Analysis

Results for: 7A NY BINGHAMTON BLCDT NEWWBNG34 LIC  
HAAT 342.0 m, ATV ERP 34.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1615919	35189.4
not affected by terrain losses	1102857	30374.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	48230	1795.5
lost to ATV IX only	48230	1795.5
lost to all IX	48230	1795.5

Potential Interfering Stations Included in above Scenario 1

7A DC WASHINGTON	BLCDT	20110706ABC	LIC
7A NY ALBANY	BLCDT	NEWXXA15	LIC
7A NY CARTHAGE	BLCDT	NEWWWNY42	LIC
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
7A NY NEW YORK	BLCDT	NEWWABC34	LIC

The following station failed the de minimis interference criteria.

7D NY NEW YORK BLCDT NEWWABC34  
ERP 34.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 1

7D NY BINGHAMTON BLCDT NEWWBNG34  
ERP 34.00 kW HAAT 342.0 m RCAMSL 739.2 m  
Antenna 9999999999999999

Percent new interference from proposal: 0.7838 to BLCDT NEWWBNG34

Worst case new IX 0.7838% Scenario 1

#####

## Analysis of Interference to Affected Station 4

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
07	WWNY-TV	CARTHAGE NY	BLCDT -NEWWWNY42

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WXXA-TV	ALBANY NY	202.8	LIC	BLCDT -NEWXXA15
07	WBNG-TV	BINGHAMTON NY	211.5	LIC	BLCDT -NEWWBNG34
07	WABC-TV	NEW YORK NY	384.0	LIC	BLCDT -NEWWABC34
07	WBBZ-TV	SPRINGVILLE NY	287.2	LIC	BLCDT -20100525AEW
08	WICZ-TV	BINGHAMTON NY	211.7	LIC	BLCDT -20060320AFC

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07 WABC-TV NEW YORK NY 386.9 PLN DTVPLN -DTVP0087  
Proposal causes no interference

#####

### Analysis of Interference to Affected Station 5

#### Analysis of current record

Channel	Call	City/State	Application Ref. No.
07	W07BV	WILKES-BARRE, ETC. PA	BLTVL -19930202IE

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WJLA-TV	WASHINGTON DC	271.9	LIC	BLCDT -20110706ABC
07	WXXA-TV	ALBANY NY	218.1	LIC	BLCDT -NEWWXXA15
07	WBNG-TV	BINGHAMTON NY	96.2	LIC	BLCDT -NEWWBNG34
07	WWNY-TV	CARTHAGE NY	306.4	LIC	BLCDT -NEWWWNY42
07	WABC-TV	NEW YORK NY	161.8	LIC	BLCDT -NEWWABC34
07	WBBZ-TV	SPRINGVILLE NY	284.4	LIC	BLCDT -20100525AEW
08	WNJB	NEW BRUNSWICK NJ	127.8	LIC	BLEDT -20110427ABF
08	WICZ-TV	BINGHAMTON NY	95.9	LIC	BLCDT -20060320AFC
07	WABC-TV	NEW YORK NY	161.0	PLN	DTVPLN -DTVP0087

Proposal causes no interference

#####

### Analysis of Interference to Affected Station 6

#### 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	LIC	BLCDT -20110706ABC
07	WXXA-TV	ALBANY NY	218.1	LIC	BLCDT -NEWWXXA15
07	WBNG-TV	BINGHAMTON NY	96.2	LIC	BLCDT -NEWWBNG34
07	WWNY-TV	CARTHAGE NY	306.4	LIC	BLCDT -NEWWWNY42
07	WABC-TV	NEW YORK NY	161.8	LIC	BLCDT -NEWWABC34
07	WBBZ-TV	SPRINGVILLE NY	284.4	LIC	BLCDT -20100525AEW
08	WNJB	NEW BRUNSWICK NJ	127.8	LIC	BLEDT -20110427ABF
08	WICZ-TV	BINGHAMTON NY	95.9	LIC	BLCDT -20060320AFC
07	WABC-TV	NEW YORK NY	161.0	PLN	DTVPLN -DTVP0087

Total scenarios = 1

Result key: 5  
Scenario 1 Affected station 6  
Before Analysis

Results for: 7A PA WILKESBARRE/PITTSTON BDFCDVA 20070607ACJ APP  
HAAT 0.0 m, ATV ERP 0.0 kW  
POPULATION AREA (sq km)

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within Noise Limited Contour	206792	897.3
not affected by terrain losses	205509	877.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10464	140.2
lost to ATV IX only	10464	140.2
lost to all IX	10464	140.2

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	NEWWBNG34	LIC
7A NY NEW YORK	DTVPLN	DTVP0087	PLN

## After Analysis

Results for: 7A PA WILKESBARRE/PITTSTON BDFCDVA 20070607ACJ APP  
 HAAT 0.0 m, ATV ERP 0.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	206792	897.3
not affected by terrain losses	205509	877.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10464	140.2
lost to ATV IX only	10464	140.2
lost to all IX	10464	140.2

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	NEWWBNG34	LIC
7A NY NEW YORK	BLCDT	NEWWABC34	LIC

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

#####

## Analysis of Interference to Affected Station 7

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	BLEDT	-20110427ABF

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WXXA-TV	ALBANY NY	226.5	LIC	BLCDT	-NEWWXXA15
07	WBNG-TV	BINGHAMTON NY	200.3	LIC	BLCDT	-NEWWBNG34
07	WABC-TV	NEW YORK NY	45.9	LIC	BLCDT	-NEWWABC34
08	WICZ-TV	BINGHAMTON NY	199.7	LIC	BLCDT	-20060320AFC
08	WWCP-TV	JOHNSTOWN PA	396.3	LIC	BLCDT	-20090413AEM
08	WGAL	LANCASTER PA	190.7	APP	BPCDT	-20110516ACI
08	WGAL	LANCASTER PA	190.7	LIC	BLCDT	-20110323ABF
09	WEDN	NORWICH CT	219.8	LIC	BLEDT	-20090618ACB
09	WBPH-TV	BETHLEHEM PA	78.8	CP MOD	BMPCDT	-20110330AAN
09	WBPH-DT	BETHLEHEM PA	79.2	LIC	BPRM	-20011130AHC
09	WBPH-TV	BETHLEHEM PA	79.2	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	78.8	APP	BPCDT	-20110518ADP
07	WABC-TV	NEW YORK NY	42.6	PLN	DTVPLN	-DTVP0087

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Total scenarios = 6

Result key: 6  
Scenario 1 Affected station 7  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2195089	3340.6
lost to ATV IX only	2195089	3340.6
lost to all IX	2195089	3340.6

Potential Interfering Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BLCDT	20110323ABF	LIC
9A PA BETHLEHEM	BMPCDT	20110330AAN	CP
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	DTVPLN	DTVP0087	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4958495	4559.4
lost to ATV IX only	4958495	4559.4
lost to all IX	4958495	4559.4

Potential Interfering Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BLCDT	20110323ABF	LIC
9A PA BETHLEHEM	BMPCDT	20110330AAN	CP
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	BLCDT	NEWWABC34	LIC

The following station failed the de minimis interference criteria.

7D NY NEW YORK BLCDT NEWWABC34  
ERP 34.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 1

8D NJ NEW BRUNSWICK BLEDT 20110427ABF  
ERP 40.82 kW HAAT 218.0 m RCAMSL 281.0 m  
Antenna CDB 00000000104545

Percent new interference from proposal: 15.5934 to BLEDT 20110427ABF



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Result key: 7  
Scenario 2 Affected station 7  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2126958	2873.1
lost to ATV IX only	2126958	2873.1
lost to all IX	2126958	2873.1

Potential Interfering Stations Included in above Scenario 2

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BLCDT	20110323ABF	LIC
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	DTVPLN	DTVP0087	PLN

### After Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4890364	4091.8
lost to ATV IX only	4890364	4091.8
lost to all IX	4890364	4091.8

Potential Interfering Stations Included in above Scenario 2

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BLCDT	20110323ABF	LIC
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	BLCDT	NEWWABC34	LIC

The following station failed the de minimis interference criteria.

7D NY NEW YORK BLCDT NEWWABC34  
ERP 34.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 2

8D NJ NEW BRUNSWICK BLEDT 20110427ABF  
ERP 40.82 kW HAAT 218.0 m RCAMSL 281.0 m  
Antenna CDB 00000000104545

Percent new interference from proposal: 15.5336 to BLEDT 20110427ABF

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Result key: 8  
Scenario 3 Affected station 7  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2391552	3844.1
lost to ATV IX only	2391552	3844.1
lost to all IX	2391552	3844.1

Potential Interfering Stations Included in above Scenario 3

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20110516ACI	APP
9A PA BETHLEHEM	BMPCDT	20110330AAN	CP
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	DTVPLN	DTVP0087	PLN

### After Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5141457	5026.9
lost to ATV IX only	5141457	5026.9
lost to all IX	5141457	5026.9

Potential Interfering Stations Included in above Scenario 3

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20110516ACI	APP
9A PA BETHLEHEM	BMPCDT	20110330AAN	CP
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	BLCDT	NEWWABC34	LIC

The following station failed the de minimis interference criteria.

7D NY NEW YORK BLCDT NEWWABC34  
ERP 34.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 3

8D NJ NEW BRUNSWICK BLEDT 20110427ABF  
ERP 40.82 kW HAAT 218.0 m RCAMSL 281.0 m  
Antenna CDB 00000000104545

Percent new interference from proposal: 15.6911 to BLEDT 20110427ABF

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Result key: 9  
Scenario 4 Affected station 7  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2339806	3468.5
lost to ATV IX only	2339806	3468.5
lost to all IX	2339806	3468.5

Potential Interfering Stations Included in above Scenario 4

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20110516ACI	APP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	DTVPLN	DTVP0087	PLN

### After Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5089711	4651.3
lost to ATV IX only	5089711	4651.3
lost to all IX	5089711	4651.3

Potential Interfering Stations Included in above Scenario 4

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20110516ACI	APP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	BLCDT	NEWWABC34	LIC

The following station failed the de minimis interference criteria.

7D NY NEW YORK BLCDT NEWWABC34  
ERP 34.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 4

8D NJ NEW BRUNSWICK BLEDT 20110427ABF  
ERP 40.82 kW HAAT 218.0 m RCAMSL 281.0 m  
Antenna CDB 00000000104545

Percent new interference from proposal: 15.6449 to BLEDT 20110427ABF

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Result key: 10  
Scenario 5 Affected station 7  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2408609	3916.0
lost to ATV IX only	2408609	3916.0
lost to all IX	2408609	3916.0

Potential Interfering Stations Included in above Scenario 5

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20110516ACI	APP
9A PA BETHLEHEM	BPCDT	20110518ADP	APP
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	DTVPLN	DTVP0087	PLN

### After Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5158514	5098.8
lost to ATV IX only	5158514	5098.8
lost to all IX	5158514	5098.8

Potential Interfering Stations Included in above Scenario 5

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20110516ACI	APP
9A PA BETHLEHEM	BPCDT	20110518ADP	APP
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	BLCDT	NEWWABC34	LIC

The following station failed the de minimis interference criteria.

7D NY NEW YORK BLCDT NEWWABC34  
ERP 34.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 5

8D NJ NEW BRUNSWICK BLEDT 20110427ABF  
ERP 40.82 kW HAAT 218.0 m RCAMSL 281.0 m  
Antenna CDB 00000000104545

Percent new interference from proposal: 15.7064 to BLEDT 20110427ABF

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Result key: 11  
Scenario 6 Affected station 7  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2213751	3416.5
lost to ATV IX only	2213751	3416.5
lost to all IX	2213751	3416.5

Potential Interfering Stations Included in above Scenario 6

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BLCDT	20110323ABF	LIC
9A PA BETHLEHEM	BPCDT	20110518ADP	APP
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	DTVPLN	DTVP0087	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BLEDT 20110427ABF LIC  
HAAT 218.0 m, ATV ERP 40.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20668171	26517.0
not affected by terrain losses	19916767	24007.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4977157	4635.3
lost to ATV IX only	4977157	4635.3
lost to all IX	4977157	4635.3

Potential Interfering Stations Included in above Scenario 6

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BLCDT	20110323ABF	LIC
9A PA BETHLEHEM	BPCDT	20110518ADP	APP
9A PA BETHLEHEM	BPRM	20011130AHC	LIC
7A NY NEW YORK	BLCDT	NEWWABC34	LIC

The following station failed the de minimis interference criteria.

7D NY NEW YORK BLCDT NEWWABC34  
ERP 34.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 6

8D NJ NEW BRUNSWICK BLEDT 20110427ABF  
ERP 40.82 kW HAAT 218.0 m RCAMSL 281.0 m  
Antenna CDB 00000000104545

Percent new interference from proposal: 15.6098 to BLEDT 20110427ABF

Worst case new IX 15.7064% Scenario 5

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Analysis of Interference to Affected Station 8

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	-NEWWXXA15
07	WBNG-TV	BINGHAMTON NY	0.7	LIC	BLCDT	-NEWWBNG34
07	WWNY-TV	CARTHAGE NY	211.7	LIC	BLCDT	-NEWWWNY42
07	WABC-TV	NEW YORK NY	218.6	LIC	BLCDT	-NEWWABC34
08	WNJB	NEW BRUNSWICK NJ	199.7	LIC	BLEDT	-20110427ABF
08	WWCP-TV	JOHNSTOWN PA	339.9	LIC	BLCDT	-20090413AEM
08	WGAL	LANCASTER PA	231.7	APP	BPCDT	-20110516ACI
08	WGAL	LANCASTER PA	231.7	LIC	BLCDT	-20110323ABF
09	WBPH-TV	BETHLEHEM PA	170.9	CP MOD	BMPCDT	-20110330AAN
09	WBPH-DT	BETHLEHEM PA	171.1	LIC	BPRM	-20011130AHC
09	WBPH-TV	BETHLEHEM PA	171.1	LIC	BLCDT	-20060609AAH
09	WBPH-TV	BETHLEHEM PA	170.9	APP	BPCDT	-20110518ADP
07	WABC-TV	NEW YORK NY	219.6	PLN	DTVPLN	-DTVP0087

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WABC-TV	NEW YORK NY	BLCDT	-NEWWABC34

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	331.1	LIC	BLCDT	-20110706ABC
07	WXXA-TV	ALBANY NY	208.6	LIC	BLCDT	-NEWWXXA15
07	WBNG-TV	BINGHAMTON NY	219.2	LIC	BLCDT	-NEWWBNG34
07	WWNY-TV	CARTHAGE NY	384.0	LIC	BLCDT	-NEWWWNY42
08	WNJB	NEW BRUNSWICK NJ	45.9	LIC	BLEDT	-20110427ABF
08	WICZ-TV	BINGHAMTON NY	218.6	LIC	BLCDT	-20060320AFC

Total scenarios = 1

Result key: 12

Scenario 1 Affected station 9

Before Analysis

Results for: 7A NY NEW YORK BLCDT NEWWABC34 LIC

HAAT 405.0 m, ATV ERP 34.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	21299737	38336.7
not affected by terrain losses	20768993	35858.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	266006	1412.6

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lost to ATV IX only	266006	1412.6
lost to all IX	266006	1412.6

Potential Interfering Stations Included in above Scenario 1

7A DC WASHINGTON	BLCDT	20110706ABC	LIC
7A NY ALBANY	BLCDT	NEWXXA15	LIC
7A NY BINGHAMTON	BLCDT	NEWWBNG34	LIC
7A NY CARTHAGE	BLCDT	NEWWWNY42	LIC
8A NJ NEW BRUNSWICK	BLEDT	20110427ABF	LIC

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