

**ENGINEERING EXHIBIT  
IN SUPPORT OF AN REQUEST FOR  
SPECIAL TEMPORARY AUTHORIZATION  
WABC-DT – NEW YORK, NEW YORK  
FACILITY ID NUMBER 1328  
CHANNEL 7 – 17.0 KW – 405.0 M HAAT**

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**ENGINEERING STATEMENT  
IN SUPPORT OF AN REQUEST FOR  
SPECIAL TEMPORARY AUTHORIZATION  
WABC-DT – NEW YORK, NEW YORK  
FACILITY ID NUMBER 1328  
CHANNEL 7 – 17.0 KW – 405.0 M HAAT**

Applicant: American Broadcasting Companies, Inc

I am a consulting engineer, an employee of the Carl T. Jones Corporation, with offices in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Registered Professional Engineer in the Commonwealth of Pennsylvania, Registration Number PE-027589E.

**Introduction**

American Broadcasting Companies, Inc., is the licensee/permittee of channel 7 television station WABC-TV/WABC-DT, New York, New York (WABC). WABC has authorized this office to prepare this statement, the technical portions of this request for special temporary authority (STA) and associated exhibits. Through this request, WABC seeks authority to increase effective radiated power. The presently permitted antenna at the Empire State Building is described in the outstanding post-transition construction permit, BPCDT-20080529AJT. No construction is required to implement the requested facilities beyond adjustment of equipment in the WABC transmitter room.

In the channel election process, VHF channel 7 was designated for post-transition use by WABC, Facility ID 1328. This channel is designated for use by WABC in Section 73.622 and in Appendix B (FCC 08-72). The WABC Appendix B facility bears geographic coordinates of the former location of the World Trade Center Building. The WABC channel 7 NTSC facilities and Initial Allotment DTV facilities were lost in the attacks of September 11, 2001.

Present WABC DTV operation utilizes an ERP of 11.69 kW from an antenna atop the Empire State building in mid-town Manhattan. WABC began DTV transmission on channel 7 on June 12, 2009 under automatic program test authority as described in BLCDDT-20090612ADK which covers the facilities described in BPCDT-20080529AJT.

In June 2009, WABC filed an application to increase ERP to 27.0 kW. At the time of filing, this application did not cause any impermissible interference to any application, license or granted construction permit.. It did cause impermissible interference to the Appendix B facilities of WNJB, New Brunswick, NJ.

WNJB modified its earlier construction permit, BMPEDT-20070125ACC, which specifies a transmitting location at the 4 Times Square Building, to specify facilities which do not exceed the WNJB Appendix B facility. This application to modify specifies a location in New Jersey and bears FCC File Number BMPEDT-20090729ACO and was on granted July 31, 2009. Shortly after the grant of the modified Construction Permit, WNJB filed an application for license, BLEDT-20090820AAL, which was accepted for filing on August 21, 2009. The instant STA request to increase ERP to 17 kW creates impermissible interference to the WNJB modified construction permit captioned above. Because of this, WABC, WGAL and WNJB have negotiated an Interference Acceptance Agreement, the details of which are outlined below.

### **June 12, 2009 Transition to Digital Television**

WABC and other full-service television broadcasters transitioned to digital television on June 12, 2009. Shortly after the transition, some viewers who were accustomed to watching WABC over-the-air, called the WABC DTV Help Center and the FCC's DTV Help Center to report difficulties in receiving WABC. Several causes are possible, but in many instances, the weaker DTV signal is part of the problem.

Through this request, WABC seeks to increase its ERP to 17.0 KW. This ERP does not exceed the maximum ERP allowed for DTV stations in Television Zone I.

The proposed ERP will provide stronger signals to over-the-air viewers, particularly those who reside relatively close to the Empire State Building. Most of the population of the five boroughs of New York City falls into this category.

### **Requested ERP**

WABC presently operates with 11.69 KW at 405 meters above average terrain. The formula in Section 73.622(f)(7)(ii), will yield 10.68 dBK, or 11.69 KW when the HAAT of 405 meters is entered in the equation.

The ERP that is requested in the instant request is 17.0 KW. This ERP is approximately 1.63 dB higher than the ERP in use presently by WABC. An ERP of 17.0 KW is expected to enable restoration of service to over-the-air viewers who have reception difficulties or lost the ability to receive WABC on the day of the transition. For this reason, Special Temporary authority is respectfully requested to operate with an ERP of 17 kW as part of WABC's continuing effort to restore over the air reception to former analog viewers.

WABC presently operates under automatic program test authority with 11.69 kW. Through this STA request, WABC seeks authority to operate with an ERP of 17.0 kW on channel 7 with the antenna that is described in the outstanding application for license, BLCDDT-20090612ADK which covers BPCDDT-20080529AJT. This STA is being requested as a part of the continuing efforts by WABC to improve off the air reception for those viewers who were able to receive the WABC NTSC transmissions prior to the transition to DTV, but have been unable to receive WABC or have experienced difficulties in receiving WABC since the transition to digital only broadcasting on channel 7 on June 12, 2009.

The proposed ERP of 17.0 KW will not cause impermissible interference to any authorized DTV facilities except WNJB, New Brunswick, NJ. An interference study was conducted, and the impermissible interference created to WNJB was calculated and is included in the Interference Acceptance Agreement that is attached and is part of this application. The complete results of the interference studies are contained in the TV Process output which is included in this engineering exhibit as the figure that is labeled Exhibit 2.

#### **The WABC-DT Appendix B Facility**

The WABC channel 7 post-transition Appendix B facility bears the coordinates of the World Trade Center. The WABC DTV channel 45 facility which was built at the World Trade Center is described in the construction permit BMPCDDT-20000508AAS. This permit was granted on October 23, 2000. The application for license to cover the World Trade Center facilities bears FCC File Number BLCDDT-20010710ABU. The WABC DTV initial allotment also contains World Trade Center coordinates. The construction permit and the application for license captioned above describe the facilities that form the basis of the WABC post-transition Appendix B facilities.

### **Licensed Facility**

The WABC-TV license bears FCC File Number BLCT-19800730KG and specified an ERP of 64.6 KW at 491.0 m HAAT. These facilities were lost in the attack on the World Trade Center of September 11, 2001. Since shortly after that time and until the transition of full service television stations to DTV only operation, WABC-TV operated with a Special Temporary Authorization from the Empire State Building. Since 2001, through the efforts of the broadcasters involved and the Empire State Building, electrical service, antenna systems, associated transmission line components and the combining system now being used by the high VHF channel stations were installed. The newly installed antenna systems changed the mechanical requirements of the antenna supporting structure and the television stations working with the Empire State Building management and engineering accomplished the addition of structural reinforcement of the building's antenna supporting structure.

Historical records show WABC-TV operation commenced on August 10, 1948. By the early 1950's, WABC-TV was operating from the Empire State Building from the newly erected mast and a channel 7 antenna system. This operation continued until the transmitting facilities at the World Trade Center were completed in 1980. Although the Empire State Building is historically important, much of the history of the Building is associated with the early FM radio and television experiments to present day broadcasting operations. This location is recognized as a site that is very well suited for television and FM radio transmission. The Empire State Building bears Antenna Structure Registration number 1007048.

### **The WABC Main License Expiration Date**

The WABC-DT/TV Main License bears an expiration date of June 1, 2007. A timely application for renewal of the WABC license was filed with the Commission and bears FCC File number BRCT-20070201BHD and was accepted for filing on February 9, 2007 and remains in pending status as of this writing. The instant request is acceptable for filing pending a final determination by the Commission on the outstanding application for renewal of the WABC main license.

### **Proposed Facility**

The pertinent technical parameters for the proposed post-transition WABC facility at the Empire State Building are shown in the associated STA technical parameter entries. The details of the antenna elevation pattern are shown in the attached figure that is labeled Exhibit 3. The 43 dBu F(50:90) principal community contour and the 36 dBu F(50:90) noise limited contour are shown in the attached figure that is labeled Exhibit 1. This Exhibit clearly shows the limits of New York City and also shows that New York City is completely contained within the proposed WABC predicted 43 dBu F(50:90) contour.

The severe lack of suitable antenna aperture in New York City has prompted three high VHF channel DTV stations to implement a common VHF antenna and combiner system for use on channels 7, 11, and 13 at the Empire State Building. Prior to the transition to DTV, the shared antenna operated in NTSC service for several years. The proposed antenna is the existing Dielectric model THA-O4-2H/8UD2SP-2-HM antenna, which according to the manufacturer's specifications, produces 3.0 degrees of electrical beam tilt and has a gain of 4.1 (6.13 dB) at channel 7. This antenna was selected because of its ability to develop the necessary ERP with three high VHF stations presently sharing the antenna and operating simultaneously. This antenna was also selected because its impedance and pattern bandwidth characteristics make it suitable for multi-station use.

The combiner has the capacity to accommodate the transmitter output power of each of the three high-channel VHF TV stations' present and proposed DTV operation. The manufacturer states that the combiner has sufficient port-to-port isolation and power handling capability to enable simultaneous operation of the three high-channel VHF DTV stations and also meet the Commission's requirements for suppression of spurious and harmonic emissions. The combiner has been in service for several years. Measurements have been made to verify the proper operation of this combiner and no instance of unstable operation or spurious, intermodulation or harmonic emissions has been observed. The manufacturer's rating of the combiner and antenna components are well suited for the proposed post-transition operation of channels 7, 11, and 13.

The proposed WABC post-transition STA facility will produce an ERP of 17.0 kilowatts at an HAAT of 405 meters from the Dielectric VHF antenna and combiner system described above.

**Requirements of Section 73.625 and Section 73.685**

Section 73.625(a) requires that any proposed DTV facility supply a sufficient signal to cover the principal community. For channel 7, the required coverage is shown if the predicted 43 dBu contour encompasses the community of license. The proposed facilities satisfy this requirement, as shown in Exhibit 1.

Section 73.685 requires that special attention be given to unwanted effects from antenna coupling when a television stations operate within 20 percent of the proposed channel's frequencies with an antenna within 61 meters (approximately 200 feet) of the proposed station's antenna. For the proposed WABC channel 7 DTV operation, this includes frequencies above channel 7 through channel 13.

The proposed antenna and combining system has been operating for several years on the Empire State Building. The present combined antenna system was used for more than 4 years in NTSC service. Since June 12, 2009, the combiner and antenna system has been used by channels 7, 11, and 13. During this time, no adverse intermodulation product has been noted or observed nor have spurious emission difficulties or complaints been received. Because of this experience and the attention to the design and adjustment of the combiner, no adverse effect from intermodulation products is expected from the instant proposal. Measurements have been made prior to commencement of operation with this combiner to assure compliance with the Commission's Rules regarding harmonic, spurious and out of band emissions.

**Allocation Considerations**

The Predicted Noise-Limited contour and Required City contour of the proposed 17.0 kW ERP WABC facilities on the Empire State Building were plotted using methods described in the Rules. The contours described in this paragraph are shown in the figure which is labeled Exhibit 1 and is included as part of this engineering statement.

The proposed WABC DTV facility is expected to improve over the air service by improving signal strength to those viewers who primarily reside within the Principal City Contour and also those who reside within the Noise Limited Contour.

The figure that is labeled Exhibit 1 shows the location of the noise limited contour and the required city contour. The city of license, New York, New York, is clearly contained within the predicted 43 dBu contour.

The higher 17.0 KW ERP will serve a second, very important purpose to improve service to viewers in the immediate vicinity of the transmitter – areas that are well within the limits of the city of license. The urban environment that is created by a multitude of high-rise buildings which contain steel and concrete can cause severe attenuation of signals as well as multi-path effects. In addition, these buildings usually do not lend themselves to outdoor antenna installations by individual tenants. It has become obvious that, prior to the transition to DTV on channel 7 on June 12, many of these residents were able to receive a satisfactory NTSC signal from WABC on channel 7, and were not able to receive WABC, if at all, after the transition to DTV.

The proposed facility meets the requirements of Section 73.616 in all cases except one. The complete results of the interference study in TV Process output format are contained in the figure that is labeled Exhibit 2.

### **Protection to DTV Post-Transition Facilities**

The Commission's TV\_Process program was run with the proposed parameters for operation at the Empire State Building. The program identified post-transition facilities of seven stations that are potentially affected by this proposal.

TV\_Process was run on a Sun workstation and with this hardware, it is expected that the results obtained demonstrate accuracy in calculation that are in close agreement with results that the Commission obtains from TV Process software when running on a Sun workstation platform.

The proposed WABC operation from the Empire State Building was studied for additional interference to the Post-Transition facilities contained in Appendix B (FCC 08-72). The interference study identified seven stations as potentially affected by the proposed WABC post-transition Empire State Building operation. The proposed post-transition operation of WABC-DT from the Empire State Building meets all the Commission's requirements for a minor change to an existing station by a comfortable margin with the single exception of the increased interference to WNJB-DT, channel 8, New Brunswick, New Jersey.

The use of 17.0 KW with the shared Dielectric high VHF channel antenna system at the Empire State Building in place of the WABC Appendix B facilities identified seven stations and one Class A station and the study shows the following results:

07 WJLA, Washington, DC	0.130% Additional Interference
07 WBNG-TV, Binghamton, NY	0.355% Additional Interference
07 WXXA-TV, Albany, NY	0.241% Additional Interference
07 WWNV-TV, Carthage, NY	Proposal Causes No Interference
08 WICZ-TV Binghamton, NY	Proposal Causes No Interference
08 WNJB, New Brunswick, NJ	As Shown in Interference Agreement
08 WICZ, Binghamton, NY	Proposal Causes No Interference
07 W07BV, Wilkes-Barre, PA	Proposal Causes No Interference

The complete interference study in TV Process output format is attached as Exhibit 2.

### **Protection of AM Stations and Protected Receiving Locations**

The Commission's database contains no AM station within 3.2 kilometers of the Empire State Building. This situation satisfies the requirements of Section 73.1692 of the Rules with regard to AM stations.

The nearest FCC Monitoring Station is located in Laurel Maryland, and is several hundred kilometers distant, well beyond the distance specified in Section 73.1030(c) of the Rules. Other receiving and Quiet Zone facilities are more distant and because of this, the requirements of Section 73.1030 which protect these facilities are satisfied.

### **Compliance with Radiofrequency Energy Exposure Limits**

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, WABC is subject to the Empire State Building's RF Safety Program which is revised periodically as modification of facilities occurs. The RF Safety Program revisions are a collaborative effort between the broadcaster tenants and the building management. Data concerning the proposed WABC-DT operation will be supplied for inclusion in the next revision of the RF Safety Procedures that is in the preparation stages.

The RF Safety Procedures at the Empire State Building include restricted access to areas where calculation or measurement indicate levels of radiofrequency energy in excess of those defined in Section 1.1310 of the Rules may be present during normal broadcast operations. The RF Safety Procedures include restricted access by lock and key to the tower structure above the mooring mast area during normal broadcast operations, and the use of on-site personnel to verify continuous shutdown of those operations that contribute to fields in areas where workers must be present while work is being done.

When work is being done in the vicinity of any broadcast antenna, remote control operation is disabled to prevent accidental exposure of personnel from inadvertent activation of transmitters. Each facility is observed to be compliant with procedures to shut-down or operate at reduced power as required by the location of work. These RF Safety Procedures also define the requirement for personnel to use personal RF exposure monitors and participate in appropriate RF safety awareness training. As new licensees begin or change operations on the Empire State Building, the RF Safety Procedures are updated to reflect the current RF exposure levels and define the areas which are restricted to prevent accidental exposure of personnel.

The nearest uncontrolled area which is unshielded by the building structure is located on Floor 86. The slant distance from the channel 7 shared antenna and a point approximately two meters above this floor is at least 84.4 meters. The angle below horizontal is approximately 78 degrees or more, and the relative field for angles of depression between 53 and 90 degrees is less than 0.082. Calculations were performed in accordance with OET Bulletin 65, Edition 97-01. The result of these calculations made with Equation 2 of Supplement A in Section 3 predict the contribution from the proposed WABC-DT post-transition channel 7 operation to the 86<sup>th</sup> floor to two meters above the 86<sup>th</sup> floor is less than 0.000244 mW/cm<sup>2</sup> which is less than 0.122 percent of the 0.2 mW/cm<sup>2</sup> limit for uncontrolled areas at the channel 7 operating frequency in the former NTSC service with 123 KW ERP. The contribution of 17.0 KW DTV service will be less than the contribution of the former NTSC facility.

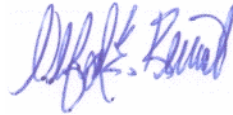
The calculation above compares results of the former simultaneous operation of WABC-TV on channel 7 with 123 KW, and the operation of WABC-DT on channel 45. Since the DTV Transition, the WABC channel 45 DTV transmitter has been shut down, and the DTV signal has been transferred to physical channel 7. As a consequence, the net contribution from WABC has been reduced as described above when considering the proposed DTV operation on channel 7 utilizing an ERP of 17.0 kW DTV Average.

### **Conclusion**

The Empire State Building is well suited as a site for television transmission. WABC has persistently used its best efforts to improve television service to New York through cooperative efforts with the Empire State Building management and their mechanical and electrical engineers, and collaborative efforts with other broadcaster's engineering representatives and equipment manufacturers to optimize the service that can be provided from the limited facilities at the Empire State Building. The proposed post-transition operation of WABC-DT from the Empire State Building meets all the Commission's requirements for a minor change to an existing station with the single exception of the interference to WNJB-DT, channel 8, New Brunswick, New Jersey, and with respect to WNJB, the parties have entered into an Interference Acceptance Agreement. When placed in the context of available transmission locations in New York City, the terrible and unpredictable loss of the WABC-TV and WABC-DT facilities at the World Trade Center in the attacks of September 11, 2001, including the circumstances that resulted from the aftermath of these attacks and consideration of the characteristics of the Empire State Building as a location that is well suited for television transmission, a grant of this request would be in the public interest.

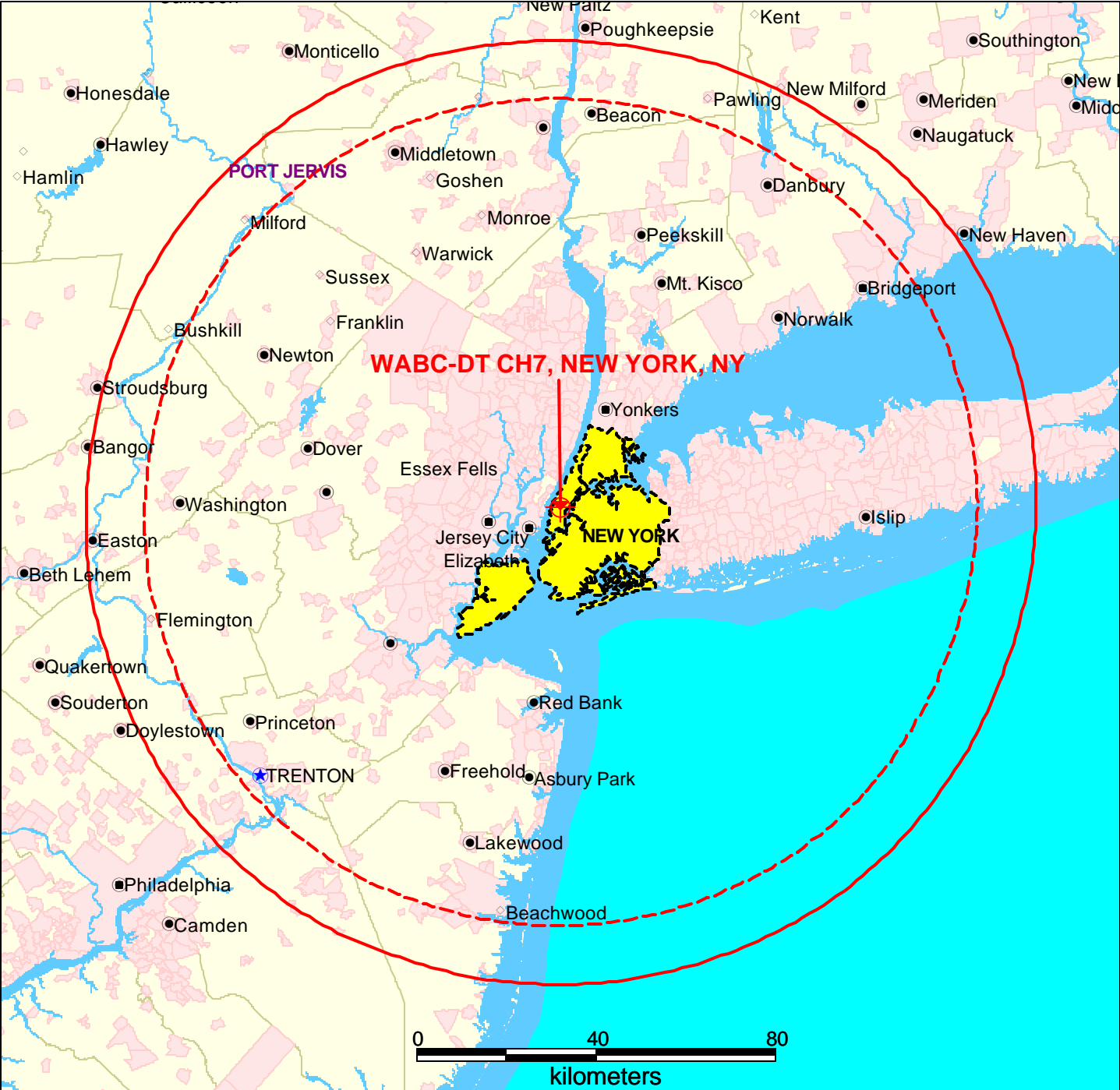
**Certification**

I certify that, on behalf of American Broadcasting Companies, Inc., permittee of WABC-DT, the information that is contained in this statement was prepared by me or under my immediate supervision. Zar B. Aung, EIT provided assistance with the preparation of the exhibits. On behalf of American Broadcasting Companies, Inc., I have reviewed the information that is contained in this Statement, and that after such review and examination have found it to be accurate and true to the best of my knowledge and belief.



Signed: \_\_\_\_\_  
Alfred E. Resnick, P. E.

Dated: December 14, 2009



**PREDICTED COVERAGE CONTOUR**

**WABC-DT CH. 7, NEW YORK, NY( Empire St. Building)  
17 kW, 405 m HAAT, 418.5 m RCMSL, NON D-ANT**

**Predicted Noise Limited Coverage Contour  
F(50,90), 36 dBu**

**Predicted Principal Community Coverage Contour  
F(50,90), 43 dBu**

OCTOBER 2009

**CARL T. JONES  
CORPORATION**

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 10-28-2009 Time: 12:09:04

Record Selected for Analysis

WABC-TV BPCDT -WABCDT7APPB NEW YORK NY US  
Channel 07 ERP 17.000 kW HAAT 405.0 m RCMSL 418.5 m  
Latitude 040-44-54 Longitude 0073-59-10  
Status APP Zone 1 Border C  
Last update Cutoff date 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 does not meet maximum height/power limits  
Channel 7 ERP = 17.00 HAAT = 405.

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	17.000	382.9	102.8
45.0	17.000	409.2	104.7
90.0	17.000	406.1	104.5
135.0	17.000	407.5	104.6
180.0	17.000	403.6	104.3
225.0	17.000	418.5	105.4
270.0	17.000	407.8	104.6
315.0	17.000	404.8	104.4

Evaluation toward Class A Stations

Moved to the end of the TV Process Output  
Affected Station 7 shows no predicted interference (see page 21)

SPACING VIOLATION FOUND BETWEEN STATION

WABC-TV 07 NEW YORK NY BPCDT WABCDT7APPB

and station

SHORT TO: WXXA-TV 07 ALBANY NY BLCDT 20051222AAQ  
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 20060329ACH  
042-03-31 0075-57-06  
Req. separation 244.6 Actual separation 219.5 Short 25.1 km

SHORT TO: WABC-TV 07 NEW YORK NY BPCDT 20080529AJT  
040-44-54 0073-59-10  
Req. separation 244.6 Actual separation 0.0 Short 244.6 km

SHORT TO: WABC-TV 07 NEW YORK NY DTVPLN DTPV0350  
040-42-43 0074-00-49  
Req. separation 244.6 Actual separation 4.7 Short 239.9 km

SHORT TO: WNJB      08 NEW BRUNSWICK      NJ BMPEDT      20090729ACO  
040-37-17    0074-30-15  
Req. separation => 20.0 <= 110.0 Actual separation    46.0 Short    64.0( 26.0) km

SHORT TO: WNJB 08 NEW BRUNSWICK NJ BPCDT WNJBBDT2172  
040-37-17 0074-30-15  
Req. separation => 20.0 <= 110.0 Actual separation 46.0 Short 64.0( 26.0) km

SHORT TO: WNJB 08 NEW BRUNSWICK NJ BPCDT WNJBBDT4091  
040-37-17 0074-30-15  
Req. separation => 20.0 <= 110.0 Actual separation 46.0 Short 64.0( 26.0) km

SHORT TO: WNJB 08 NEW BRUNSWICK NJ BPCDT WNJBAPPB202  
040-37-17 0074-30-15  
Req. separation => 20.0 <= 110.0 Actual separation 46.0 Short 64.0( 26.0) km

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite 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	Proposed Station Call	City/State	ARN	
07	WABC-TV	NEW YORK NY	BPCDT	WABCDT7APPB

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	331.1	CP MOD	BMPCDT	-20080620AIH
07	WJLA-TV	WASHINGTON DC	331.1	CP	BPCDT	-WJLA-APPB
07	WXXA-TV	ALBANY NY	208.6	LIC	BLCDDT	-20051222AAQ
07	WBNG-TV	BINGHAMTON NY	219.2	LIC	BLCDDT	-20060329ACH
07	WWNY-TV	CARTHAGE NY	384.0	CP MOD	BMPCDT	-20080620AIE
07	WWNY-TV	CARTHAGE NY	384.0	CP	BPCDT	-WWNY-APPB
07	W07BV	WILKES-BARRE PA	161.8	LIC	BLTVL	-19930202IE
08	WNJB	NEW BRUNSWICK NJ	45.9	CP MOD	BMPEDT	-20090729ACO
08	WNJB	NEW BRUNSWICK NJ	45.9	APP	BPCDT	-WNJBBDT2172
08	WNJB	NEW BRUNSWICK NJ	45.9	APP	BPCDT	-WNJBBDT4091
08	WNJB	NEW BRUNSWICK NJ	45.9	LIC	BPCDT	-WNJBAPPB202
08	WICZ-TV	BINGHAMTON NY	218.6	LIC	BLCDDT	-20060320AFC

%%%

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	BLCDDT	-20060329ACH
07	WABC-TV	NEW YORK NY	331.1	APP	BPCDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	326.8	PLN	DTVPLN	-DTVP0350
07	WHRE	VIRGINIA BEACH VA	243.4	CP	BPCDT	-20080303AJG
07	WTRF-TV	WHEELING WV	338.3	CP MOD	BMPCDT	-20080317AGD
07	WTRF-TV	WHEELING WV	338.3	APP	BPCDT	-20080620ALK
08	WWCP-TV	JOHNSTOWN PA	224.1	CP	BPCDT	-20080408ABF
08	WWCP-TV	JOHNSTOWN PA	224.1	LIC	BFRCTT	-WWCPAPPB
08	WWCP-TV	JOHNSTOWN PA	224.1	CP MOD	BMPCDT	-20080620AIX
08	WGAL	LANCASTER PA	126.8	LIC	BPCDT	-WGALAPPB
08	WGAL	LANCASTER PA	126.8	APP	BPCDT	-WGAL322KW
08	WGAL	LANCASTER PA	126.8	CP	BPCDT	-20090710AKB

Total scenarios = 6

Result key: 1  
Scenario 1 Affected station 1  
Before Analysis

Results for: 7A DC WASHINGTON BMPCDT 20080620AIH CP

HAAT 235.0 m, ATV ERP 30.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3250	64.0
lost to ATV IX only	3250	64.0
lost to all IX	3250	64.0

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BMPCDT	20080317AGD	CP
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	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	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6382	84.0
lost to ATV IX only	6382	84.0
lost to all IX	6382	84.0

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BMPCDT	20080317AGD	CP
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

Result key: 2  
Scenario 2 Affected station 1  
Before Analysis

Results for: 7A DC WASHINGTON BMPCDT 20080620AIH CP  
HAAT 235.0 m, ATV ERP 30.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	7049	92.0
lost to ATV IX only	7049	92.0
lost to all IX	7049	92.0

Potential Interferring Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BMPCDT	20080317AGD	CP
8A PA LANCASTER	BPCDT	20090710AKB	CP
7A NY NEW YORK	DTVPLN	DTVP0350	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	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10181	112.0
lost to ATV IX only	10181	112.0
lost to all IX	10181	112.0

Potential Interferring Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BMPCDT	20080317AGD	CP
8A PA LANCASTER	BPCDT	20090710AKB	CP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

Result key: 3  
Scenario 3 Affected station 1  
Before Analysis

Results for: 7A DC WASHINGTON BMPCDT 20080620AIH CP  
HAAT 235.0 m, ATV ERP 30.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10805	140.0
lost to ATV IX only	10805	140.0
lost to all IX	10805	140.0

Potential Interfering Stations Included in above Scenario 3

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BMPCDT	20080317AGD	CP
8A PA LANCASTER	BPCDT	WGAL322KW	APP
7A NY NEW YORK	DTVPLN	DTVP0350	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	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	13937	160.0
lost to ATV IX only	13937	160.0
lost to all IX	13937	160.0

Potential Interfering Stations Included in above Scenario 3

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BMPCDT	20080317AGD	CP
8A PA LANCASTER	BPCDT	WGAL322KW	APP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

Result key: 4  
Scenario 4 Affected station 1  
Before Analysis

Results for: 7A DC WASHINGTON BMPCDT 20080620AIH CP  
HAAT 235.0 m, ATV ERP 30.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9787	88.0
lost to ATV IX only	9787	88.0
lost to all IX	9787	88.0

Potential Interfering Stations Included in above Scenario 4

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BPCDT	20080620ALK	APP
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	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	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	12919	108.0
lost to ATV IX only	12919	108.0
lost to all IX	12919	108.0

Potential Interfering Stations Included in above Scenario 4

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BPCDT	20080620ALK	APP
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

Result key: 5  
Scenario 5 Affected station 1  
Before Analysis

Results for: 7A DC WASHINGTON BMPCDT 20080620AIH CP  
HAAT 235.0 m, ATV ERP 30.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	17342	164.0
lost to ATV IX only	17342	164.0
lost to all IX	17342	164.0

Potential Interfering Stations Included in above Scenario 5

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BPCDT	20080620ALK	APP
8A PA LANCASTER	BPCDT	WGAL322KW	APP
7A NY NEW YORK	DTVPLN	DTVP0350	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	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20474	184.0
lost to ATV IX only	20474	184.0
lost to all IX	20474	184.0

Potential Interfering Stations Included in above Scenario 5

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BPCDT	20080620ALK	APP
8A PA LANCASTER	BPCDT	WGAL322KW	APP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

Result key: 6  
Scenario 6 Affected station 1  
Before Analysis

Results for: 7A DC WASHINGTON BMPCDT 20080620AIH CP  
HAAT 235.0 m, ATV ERP 30.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	13586	116.0
lost to ATV IX only	13586	116.0
lost to all IX	13586	116.0

Potential Interfering Stations Included in above Scenario 6

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BPCDT	20080620ALK	APP
8A PA LANCASTER	BPCDT	20090710AKB	CP
7A NY NEW YORK	DTVPLN	DTVP0350	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	7732162	30007.6
not affected by terrain losses	7473493	27739.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	16718	136.0
lost to ATV IX only	16718	136.0
lost to all IX	16718	136.0

Potential Interfering Stations Included in above Scenario 6

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BPCDT	20080620ALK	APP
8A PA LANCASTER	BPCDT	20090710AKB	CP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

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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	BPCDT	-WJLA-APPB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	358.4	LIC	BLCDDT	-20060329ACH
07	WABC-TV	NEW YORK NY	331.1	APP	BPCDDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	326.8	PLN	DTVPLN	-DTVP0350
07	WHRE	VIRGINIA BEACH VA	243.4	CP	BPCDDT	-20080303AJG
07	WTRF-TV	WHEELING WV	338.3	CP MOD	BMPCDDT	-20080317AGD
07	WTRF-TV	WHEELING WV	338.3	APP	BPCDDT	-20080620ALK
08	WWCP-TV	JOHNSTOWN PA	224.1	CP	BPCDDT	-20080408ABF
08	WWCP-TV	JOHNSTOWN PA	224.1	LIC	BFRCCD	-WWCPAPPB
08	WWCP-TV	JOHNSTOWN PA	224.1	CP MOD	BMPCDDT	-20080620AIX
08	WGAL	LANCASTER PA	126.8	LIC	BPCDDT	-WGALAPPB
08	WGAL	LANCASTER PA	126.8	APP	BPCDDT	-WGAL322KW
08	WGAL	LANCASTER PA	126.8	CP	BPCDDT	-20090710AKB

Total scenarios = 3

Result key: 7  
Scenario 1 Affected station 2  
Before Analysis

Results for: 7A DC WASHINGTON BPCDDT WJLA-APPB CP  
HAAT 254.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7155265	23728.9
not affected by terrain losses	7065417	22312.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	504	20.0
lost to ATV IX only	504	20.0
lost to all IX	504	20.0

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDDT	20080303AJG	CP
8A PA LANCASTER	BPCDDT	20090710AKB	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 7A DC WASHINGTON BPCDT WJLA-APPB CP  
HAAT 254.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7155265	23728.9
not affected by terrain losses	7065417	22312.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9687	36.0
lost to ATV IX only	9687	36.0
lost to all IX	9687	36.0

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
8A PA LANCASTER	BPCDT	20090710AKB	CP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 999999999999999

Due to interference to the following station and scenario: 1

7D DC WASHINGTON BPCDT WJLA-APPB  
ERP 14.98 kW HAAT 254.0 m RCAMSL 327.0 m  
Antenna CDB 00000000074539

Percent Service lost without proposal:	0.0	to BPCDT	WJLA-APPB
Percent Service lost with proposal:	0.1	to BPCDT	WJLA-APPB

Result key: 8  
Scenario 2 Affected station 2  
Before Analysis

Results for: 7A DC WASHINGTON BPCDT WJLA-APPB CP  
HAAT 254.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7155265	23728.9
not affected by terrain losses	7065417	22312.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1691	40.0
lost to ATV IX only	1691	40.0
lost to all IX	1691	40.0

Potential Interfering Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BPCDT	20080620ALK	APP
8A PA LANCASTER	BPCDT	WGAL322KW	APP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 7A DC WASHINGTON BPCDT WJLA-APPB CP  
HAAT 254.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7155265	23728.9
not affected by terrain losses	7065417	22312.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10874	56.0
lost to ATV IX only	10874	56.0
lost to all IX	10874	56.0

Potential Interfering Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BPCDT	20080620ALK	APP
8A PA LANCASTER	BPCDT	WGAL322KW	APP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 2

7D DC WASHINGTON BPCDT WJLA-APPB  
ERP 14.98 kW HAAT 254.0 m RCAMSL 327.0 m  
Antenna CDB 00000000074539

Percent Service lost without proposal:	0.0	to BPCDT	WJLA-APPB
Percent Service lost with proposal:	0.1	to BPCDT	WJLA-APPB

Result key: 9  
Scenario 3 Affected station 2  
Before Analysis

Results for: 7A DC WASHINGTON BPCDT WJLA-APPB CP  
HAAT 254.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7155265	23728.9
not affected by terrain losses	7065417	22312.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	845	28.0
lost to ATV IX only	845	28.0
lost to all IX	845	28.0

Potential Interfering Stations Included in above Scenario 3

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDT	20080303AJG	CP
7A WV WHEELING	BPCDT	20080620ALK	APP
8A PA LANCASTER	BPCDT	20090710AKB	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 7A DC WASHINGTON BPCDT WJLA-APPB CP  
HAAT 254.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7155265	23728.9
not affected by terrain losses	7065417	22312.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10028	44.0
lost to ATV IX only	10028	44.0
lost to all IX	10028	44.0

Potential Interfering Stations Included in above Scenario 3

7A NY BINGHAMTON	BLCDDT	20060329ACH	LIC
7A VA VIRGINIA BEACH	BPCDDT	20080303AJG	CP
7A WV WHEELING	BPCDDT	20080620ALK	APP
8A PA LANCASTER	BPCDDT	20090710AKB	CP
7A NY NEW YORK	BPCDDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 3

7D DC WASHINGTON BPCDDT WJLA-APPB  
ERP 14.98 kW HAAT 254.0 m RCAMSL 327.0 m  
Antenna CDB 00000000074539

Percent Service lost without proposal:	0.0	to BPCDDT	WJLA-APPB
Percent Service lost with proposal:	0.1	to BPCDDT	WJLA-APPB

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WXXA-TV	ALBANY NY	BLCDDT	-20051222AAQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	171.5	LIC	BLCDDT	-20060329ACH
07	WWNY-TV	CARTHAGE NY	202.8	CP MOD	BMPCDDT	-20080620AIE
07	WWNY-TV	CARTHAGE NY	202.8	CP	BPCDDT	-WWNY-APPB
07	WABC-TV	NEW YORK NY	208.6	APP	BPCDDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	212.7	PLN	DTVPLN	-DTVP0350
07	WNGS	SPRINGVILLE NY	376.9	CP	BPCDDT	-20080328AFD
08	WNJB	NEW BRUNSWICK NJ	226.5	CP MOD	BMPEDT	-20090729ACO
08	WNJB	NEW BRUNSWICK NJ	226.5	APP	BPCDDT	-WNJBBDT2172
08	WNJB	NEW BRUNSWICK NJ	226.5	APP	BPCDDT	-WNJBBDT4091
08	WNJB	NEW BRUNSWICK NJ	226.5	LIC	BPCDDT	-WNJBAPPB202
08	WICZ-TV	BINGHAMTON NY	171.0	LIC	BLCDDT	-20060320AFC

Total scenarios = 2

Result key: 10  
Scenario 1 Affected station 3  
Before Analysis

Results for: 7A NY ALBANY BLC DT 20051222AAQ LIC  
HAAT 434.0 m, ATV ERP 10.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1642431	32762.3
not affected by terrain losses	1505243	27588.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	14774	1286.4
lost to ATV IX only	14774	1286.4
lost to all IX	14774	1286.4

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLC DT	20060329ACH	LIC
7A NY CARTHAGE	BMPCDT	20080620AIE	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 7A NY ALBANY BLC DT 20051222AAQ LIC  
HAAT 434.0 m, ATV ERP 10.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1642431	32762.3
not affected by terrain losses	1505243	27588.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	18280	1458.8
lost to ATV IX only	18280	1458.8
lost to all IX	18280	1458.8

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BLC DT	20060329ACH	LIC
7A NY CARTHAGE	BMPCDT	20080620AIE	CP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 99999999999999

Due to interference to the following station and scenario: 1

7D NY ALBANY BLC DT 20051222AAQ  
ERP 10.00 kW HAAT 434.0 m RCAMSL 692.0 m  
Antenna 99999999999999

Percent Service lost without proposal:	0.0	to BLC DT	20051222AAQ
Percent Service lost with proposal:	0.2	to BLC DT	20051222AAQ

Result key: 11  
Scenario 2 Affected station 3  
Before Analysis

Results for: 7A NY ALBANY BLCDT 20051222AAQ LIC  
HAAT 434.0 m, ATV ERP 10.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1642431	32762.3
not affected by terrain losses	1505243	27588.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	13673	1214.3
lost to ATV IX only	13673	1214.3
lost to all IX	13673	1214.3

Potential Interfering Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A NY CARTHAGE	BPCDT	WWNY-APPB	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 7A NY ALBANY BLCDT 20051222AAQ LIC  
HAAT 434.0 m, ATV ERP 10.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1642431	32762.3
not affected by terrain losses	1505243	27588.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	17270	1398.7
lost to ATV IX only	17270	1398.7
lost to all IX	17270	1398.7

Potential Interfering Stations Included in above Scenario 2

7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
7A NY CARTHAGE	BPCDT	WWNY-APPB	CP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 2

7D NY ALBANY BLCDT 20051222AAQ  
ERP 10.00 kW HAAT 434.0 m RCAMSL 692.0 m  
Antenna 9999999999999999

Percent Service lost without proposal: 0.0 to BLCDT 20051222AAQ  
Percent Service lost with proposal: 0.2 to BLCDT 20051222AAQ

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	BLCDT	-20060329ACH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	358.4	CP MOD	BMPCDT	-20080620AIH
07	WJLA-TV	WASHINGTON DC	358.4	CP	BPCDT	-WJLA-APPB
07	WXXA-TV	ALBANY NY	171.5	LIC	BLCDT	-20051222AAQ
07	WWNY-TV	CARTHAGE NY	211.5	CP MOD	BMPCDT	-20080620AIE
07	WWNY-TV	CARTHAGE NY	211.5	CP	BPCDT	-WWNY-APPB
07	WABC-TV	NEW YORK NY	219.2	APP	BPCDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	220.3	PLN	DTVPLN	-DTVP0350
07	WNGS	SPRINGVILLE NY	228.4	CP	BPCDT	-20080328AFD
08	WNJB	NEW BRUNSWICK NJ	200.3	CP MOD	BMPEDT	-20090729ACO
08	WNJB	NEW BRUNSWICK NJ	200.3	APP	BPCDT	-WNJBBDT2172
08	WNJB	NEW BRUNSWICK NJ	200.3	APP	BPCDT	-WNJBBDT4091
08	WNJB	NEW BRUNSWICK NJ	200.3	LIC	BPCDT	-WNJBAPPB202
08	WICZ-TV	BINGHAMTON NY	0.7	LIC	BLCDT	-20060320AFC

Total scenarios = 4

Result key: 12  
Scenario 1 Affected station 4  
Before Analysis

Results for: 7A NY BINGHAMTON BLCDT 20060329ACH LIC  
HAAT 342.0 m, ATV ERP 20.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1412333	32375.5
not affected by terrain losses	1021191	28092.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	22318	1003.7
lost to ATV IX only	22318	1003.7
lost to all IX	22318	1003.7

Potential Interfering Stations Included in above Scenario 1

7A DC WASHINGTON	BMPCDT	20080620AIH	CP
7A NY ALBANY	BLCDT	20051222AAQ	LIC
7A NY CARTHAGE	BMPCDT	20080620AIE	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 7A NY BINGHAMTON BLCDT 20060329ACH LIC

HAAT 342.0 m, ATV ERP 20.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1412333	32375.5
not affected by terrain losses	1021191	28092.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	25865	1127.7
lost to ATV IX only	25865	1127.7
lost to all IX	25865	1127.7

Potential Interfering Stations Included in above Scenario 1

7A DC WASHINGTON	BMPCDT	20080620AIH	CP
7A NY ALBANY	BLCDT	20051222AAQ	LIC
7A NY CARTHAGE	BMPCDT	20080620AIE	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 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 20060329ACH  
ERP 20.40 kW HAAT 342.0 m RCAMSL 739.2 m  
Antenna 9999999999999999

Percent Service lost without proposal:	0.0	to BLCDT	20060329ACH
Percent Service lost with proposal:	0.4	to BLCDT	20060329ACH

Result key: 13  
Scenario 2 Affected station 4  
Before Analysis

Results for: 7A NY BINGHAMTON BLCDT 20060329ACH LIC

HAAT 342.0 m, ATV ERP 20.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1412333	32375.5
not affected by terrain losses	1021191	28092.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	19492	847.8
lost to ATV IX only	19492	847.8
lost to all IX	19492	847.8

Potential Interfering Stations Included in above Scenario 2

7A DC WASHINGTON	BMPCDT	20080620AIH	CP
7A NY ALBANY	BLCDT	20051222AAQ	LIC
7A NY CARTHAGE	BPCDT	WWNY-APPB	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 7A NY BINGHAMTON BLC DT 20060329ACH LIC

HAAT 342.0 m, ATV ERP 20.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1412333	32375.5
not affected by terrain losses	1021191	28092.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	23039	971.7
lost to ATV IX only	23039	971.7
lost to all IX	23039	971.7

Potential Interfering Stations Included in above Scenario 2

7A DC WASHINGTON	BMPCDT	20080620AIH	CP
7A NY ALBANY	BLC DT	20051222AAQ	LIC
7A NY CARTHAGE	BPCDT	WWNY-APPB	CP
8A NY BINGHAMTON	BLC DT	20060320AFC	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 2

7D NY BINGHAMTON BLC DT 20060329ACH  
ERP 20.40 kW HAAT 342.0 m RCAMSL 739.2 m  
Antenna 9999999999999999

Percent Service lost without proposal:	0.0	to BLC DT	20060329ACH
Percent Service lost with proposal:	0.4	to BLC DT	20060329ACH

Result key: 14  
Scenario 3 Affected station 4  
Before Analysis

Results for: 7A NY BINGHAMTON BLC DT 20060329ACH LIC

HAAT 342.0 m, ATV ERP 20.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1412333	32375.5
not affected by terrain losses	1021191	28092.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	22296	999.7
lost to ATV IX only	22296	999.7
lost to all IX	22296	999.7

Potential Interfering Stations Included in above Scenario 3

7A DC WASHINGTON	BPCDT	WJLA-APPB	CP
7A NY ALBANY	BLC DT	20051222AAQ	LIC
7A NY CARTHAGE	BMPCDT	20080620AIE	CP
8A NY BINGHAMTON	BLC DT	20060320AFC	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 7A NY BINGHAMTON BLC DT 20060329ACH LIC

HAAT 342.0 m, ATV ERP 20.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1412333	32375.5
not affected by terrain losses	1021191	28092.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	25843	1123.7
lost to ATV IX only	25843	1123.7
lost to all IX	25843	1123.7

Potential Interfering Stations Included in above Scenario 3

7A DC WASHINGTON	BPCDT	WJLA-APPB	CP
7A NY ALBANY	BLC DT	20051222AAQ	LIC
7A NY CARTHAGE	BMPCDT	20080620AIE	CP
8A NY BINGHAMTON	BLC DT	20060320AFC	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 3

7D NY BINGHAMTON BLC DT 20060329ACH  
ERP 20.40 kW HAAT 342.0 m RCAMSL 739.2 m  
Antenna 9999999999999999

Percent Service lost without proposal:	0.0	to BLC DT	20060329ACH
Percent Service lost with proposal:	0.4	to BLC DT	20060329ACH

Result key: 15  
Scenario 4 Affected station 4  
Before Analysis

Results for: 7A NY BINGHAMTON BLC DT 20060329ACH LIC

HAAT 342.0 m, ATV ERP 20.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1412333	32375.5
not affected by terrain losses	1021191	28092.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	19470	843.8
lost to ATV IX only	19470	843.8
lost to all IX	19470	843.8

Potential Interfering Stations Included in above Scenario 4

7A DC WASHINGTON	BPCDT	WJLA-APPB	CP
7A NY ALBANY	BLC DT	20051222AAQ	LIC
7A NY CARTHAGE	BPCDT	WWNY-APPB	CP
8A NY BINGHAMTON	BLC DT	20060320AFC	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 7A NY BINGHAMTON BLCDT 20060329ACH LIC  
HAAT 342.0 m, ATV ERP 20.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1412333	32375.5
not affected by terrain losses	1021191	28092.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	23017	967.7
lost to ATV IX only	23017	967.7
lost to all IX	23017	967.7

Potential Interferring Stations Included in above Scenario 4

7A DC WASHINGTON	BPCDT	WJLA-APPB	CP
7A NY ALBANY	BLCDT	20051222AAQ	LIC
7A NY CARTHAGE	BPCDT	WWNY-APPB	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 99999999999999

Due to interference to the following station and scenario: 4

7D NY BINGHAMTON BLCDT 20060329ACH  
ERP 20.40 kW HAAT 342.0 m RCAMSL 739.2 m  
Antenna 99999999999999

Percent Service lost without proposal: 0.0 to BLCDT 20060329ACH  
Percent Service lost with proposal: 0.4 to BLCDT 20060329ACH

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WWNY-TV	CARTHAGE NY	BMPCDT	-20080620AIE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WXXA-TV	ALBANY NY	202.8	LIC	BLCDT	-20051222AAQ
07	WBNG-TV	BINGHAMTON NY	211.5	LIC	BLCDT	-20060329ACH
07	WABC-TV	NEW YORK NY	384.0	APP	BPCDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	386.9	PLN	DTVPLN	-DTVP0350
07	WNGS	SPRINGVILLE NY	275.9	CP	BPCDT	-20080328AFD
08	WICZ-TV	BINGHAMTON NY	211.7	LIC	BLCDT	-20060320AFC

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WWNY-TV	CARTHAGE NY	BPCDT	-WWNY-APPB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WXXA-TV	ALBANY NY	202.8	LIC	BLCDDT	-20051222AAQ
07	WBNG-TV	BINGHAMTON NY	211.5	LIC	BLCDDT	-20060329ACH
07	WABC-TV	NEW YORK NY	384.0	APP	BPCDDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	386.9	PLN	DTVPLN	-DTVP0350
07	WNGS	SPRINGVILLE NY	275.9	CP	BPCDDT	-20080328AFD
08	WICZ-TV	BINGHAMTON NY	211.7	LIC	BLCDDT	-20060320AFC

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	W07BV	WILKES-BARRE 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	CP MOD	BMPCDDT	-20080620AIH
07	WJLA-TV	WASHINGTON DC	271.9	CP	BPCDDT	-WJLA-APPB
07	WXXA-TV	ALBANY NY	218.1	LIC	BLCDDT	-20051222AAQ
07	WBNG-TV	BINGHAMTON NY	96.2	LIC	BLCDDT	-20060329ACH
07	WWNY-TV	CARTHAGE NY	306.4	CP MOD	BMPCDDT	-20080620AIE
07	WWNY-TV	CARTHAGE NY	306.4	CP	BPCDDT	-WWNY-APPB
07	WABC-TV	NEW YORK NY	161.8	CP	BPCDDT	-20080529AJT
07	WABC-TV	NEW YORK NY	161.8	APP	BPCDDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	161.0	PLN	DTVPLN	-DTVP0350
07	WNGS	SPRINGVILLE NY	281.4	CP	BPCDDT	-20080328AFD
08	WNJB	NEW BRUNSWICK NJ	127.8	CP MOD	BMPEDT	-20090729ACO
08	WNJB	NEW BRUNSWICK NJ	127.8	APP	BPCDDT	-WNJBBDT2172
08	WNJB	NEW BRUNSWICK NJ	127.8	APP	BPCDDT	-WNJBBDT4091
08	WNJB	NEW BRUNSWICK NJ	127.8	LIC	BPCDDT	-WNJBAPPB202
08	WICZ-TV	BINGHAMTON NY	95.9	LIC	BLCDDT	-20060320AFC

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	BMPEDT	-20090729ACO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WXXA-TV	ALBANY NY	226.5	LIC	BLCDDT	-20051222AAQ
07	WBNG-TV	BINGHAMTON NY	200.3	LIC	BLCDDT	-20060329ACH
07	WABC-TV	NEW YORK NY	45.9	APP	BPCDDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	42.6	PLN	DTVPLN	-DTVP0350
08	WICZ-TV	BINGHAMTON NY	199.7	LIC	BLCDDT	-20060320AFC
08	WWCP-TV	JOHNSTOWN PA	396.3	CP	BPCDDT	-20080408ABF
08	WWCP-TV	JOHNSTOWN PA	396.3	LIC	BFRCDT	-WWCPAPPB
08	WWCP-TV	JOHNSTOWN PA	396.3	CP MOD	BMPCDT	-20080620AIX
08	WGAL	LANCASTER PA	190.7	LIC	BPCDDT	-WGALAPPB
08	WGAL	LANCASTER PA	190.7	APP	BPCDDT	-WGAL322KW
08	WGAL	LANCASTER PA	190.7	CP	BPCDDT	-20090710AKB
09	WEDN	NORWICH CT	219.8	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	219.8	CP	BPEDT	-20080206AAH
09	WBPH-TV	BETHLEHEM PA	79.2	CP	BPCDDT	-20080619ALA
09	WBPH-TV	BETHLEHEM PA	79.2	LIC	BLCDDT	-20060609AAH

Total scenarios = 6

Result key: 16  
Scenario 1 Affected station 8  
Before Analysis

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

	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2206025	2241.6
lost to ATV IX only	2206025	2241.6
lost to all IX	2206025	2241.6

Potential Interfering Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	WGALAPPB	LIC
9A PA BETHLEHEM	BPCDDT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

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

	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4202737	2885.0
lost to ATV IX only	4202737	2885.0
lost to all IX	4202737	2885.0

Potential Interferring Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
9A PA BETHLEHEM	BPCDT	20080619ALA	CP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 999999999999999

Due to interference to the following station and scenario: 1

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

Percent Service lost without proposal:	0.0	to BMPEDT	20090729ACO
Percent Service lost with proposal:	12.1	to BMPEDT	20090729ACO

Result key: 17  
Scenario 2 Affected station 8  
Before Analysis

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

	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2117701	1698.2
lost to ATV IX only	2117701	1698.2
lost to all IX	2117701	1698.2

Potential Interferring Stations Included in above Scenario 2

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20090729ACO CP

HAAT 215.0 m, ATV ERP 17.9 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4114413	2341.5
lost to ATV IX only	4114413	2341.5
lost to all IX	4114413	2341.5

Potential Interferring Stations Included in above Scenario 2

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 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 BMPEDT 20090729ACO  
ERP 17.90 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000094321

Percent Service lost without proposal:	0.0	to BMPEDT	20090729ACO
Percent Service lost with proposal:	12.0	to BMPEDT	20090729ACO

Result key: 18  
Scenario 3 Affected station 8  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20090729ACO CP

HAAT 215.0 m, ATV ERP 17.9 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2434479	2529.3
lost to ATV IX only	2434479	2529.3
lost to all IX	2434479	2529.3

Potential Interfering Stations Included in above Scenario 3

8A NY BINGHAMTON	BLC DT	20060320AFC	LIC
8A PA LANCASTER	BPC DT	20090710AKB	CP
9A PA BETHLEHEM	BPC DT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20090729ACO CP

HAAT 215.0 m, ATV ERP 17.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4427217	3156.7
lost to ATV IX only	4427217	3156.7
lost to all IX	4427217	3156.7

Potential Interfering Stations Included in above Scenario 3

8A NY BINGHAMTON	BLC DT	20060320AFC	LIC
8A PA LANCASTER	BPC DT	20090710AKB	CP
9A PA BETHLEHEM	BPC DT	20080619ALA	CP
7A NY NEW YORK	BPC DT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPC DT WABCDT7APPB  
ERP 17.00 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 BMPEDT 20090729ACO  
ERP 17.90 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000094321

Percent Service lost without proposal:	0.0	to BMPEDT	20090729ACO
Percent Service lost with proposal:	12.2	to BMPEDT	20090729ACO

Result key: 19  
Scenario 4 Affected station 8  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20090729ACO CP

HAAT 215.0 m, ATV ERP 17.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2364686	2081.8
lost to ATV IX only	2364686	2081.8
lost to all IX	2364686	2081.8

Potential Interfering Stations Included in above Scenario 4

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20090710AKB	CP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

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

	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4357424	2709.2
lost to ATV IX only	4357424	2709.2
lost to all IX	4357424	2709.2

Potential Interfering Stations Included in above Scenario 4

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20090710AKB	CP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 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 BMPEDT 20090729ACO  
ERP 17.90 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000094321

Percent Service lost without proposal:	0.0	to BMPEDT	20090729ACO
Percent Service lost with proposal:	12.2	to BMPEDT	20090729ACO

Result key: 20  
Scenario 5 Affected station 8  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20090729ACO CP

HAAT 215.0 m, ATV ERP 17.9 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2721751	2964.9
lost to ATV IX only	2721751	2964.9
lost to all IX	2721751	2964.9

Potential Interferring Stations Included in above Scenario 5

8A NY BINGHAMTON	BLC DT	20060320AFC	LIC
8A PA LANCASTER	BPC DT	WGAL322KW	APP
9A PA BETHLEHEM	BPC DT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20090729ACO CP

HAAT 215.0 m, ATV ERP 17.9 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4711817	3588.2
lost to ATV IX only	4711817	3588.2
lost to all IX	4711817	3588.2

Potential Interferring Stations Included in above Scenario 5

8A NY BINGHAMTON	BLC DT	20060320AFC	LIC
8A PA LANCASTER	BPC DT	WGAL322KW	APP
9A PA BETHLEHEM	BPC DT	20080619ALA	CP
7A NY NEW YORK	BPC DT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPC DT WABCDT7APPB  
ERP 17.00 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 BMPEDT 20090729ACO  
ERP 17.90 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 0000000094321

Percent Service lost without proposal:	0.0	to BMPEDT	20090729ACO
Percent Service lost with proposal:	12.4	to BMPEDT	20090729ACO

Result key: 21  
Scenario 6 Affected station 8  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20090729ACO CP

HAAT 215.0 m, ATV ERP 17.9 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2676030	2609.3
lost to ATV IX only	2676030	2609.3
lost to all IX	2676030	2609.3

Potential Interfering Stations Included in above Scenario 6

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGAL322KW	APP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20090729ACO CP

HAAT 215.0 m, ATV ERP 17.9 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	19286829	23123.7
not affected by terrain losses	18741287	20950.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4666096	3232.6
lost to ATV IX only	4666096	3232.6
lost to all IX	4666096	3232.6

Potential Interfering Stations Included in above Scenario 6

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGAL322KW	APP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCMSL 418.5 m  
Antenna 9999999999999999

Due to interference to the following station and scenario: 6

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

Percent Service lost without proposal: 0.0 to BMPEDT 20090729ACO  
Percent Service lost with proposal: 12.4 to BMPEDT 20090729ACO

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	BPCDT	-WNJBDT2172

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WXXA-TV	ALBANY NY	226.5	LIC	BLCDT	-20051222AAQ
07	WBNG-TV	BINGHAMTON NY	200.3	LIC	BLCDT	-20060329ACH
07	WABC-TV	NEW YORK NY	45.9	APP	BPCDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	42.6	PLN	DTVPLN	-DTVP0350
08	WICZ-TV	BINGHAMTON NY	199.7	LIC	BLCDT	-20060320AFC
08	WWCP-TV	JOHNSTOWN PA	396.3	CP	BPCDT	-20080408ABF
08	WWCP-TV	JOHNSTOWN PA	396.3	LIC	BFRCTT	-WWCPAPPB
08	WWCP-TV	JOHNSTOWN PA	396.3	CP MOD	BMPCDT	-20080620AIX
08	WGAL	LANCASTER PA	190.7	LIC	BPCDT	-WGALAPPB
08	WGAL	LANCASTER PA	190.7	APP	BPCDT	-WGAL322KW
08	WGAL	LANCASTER PA	190.7	CP	BPCDT	-20090710AKB
09	WEDN	NORWICH CT	219.8	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	219.8	CP	BPEDT	-20080206AAH
09	WBPH-TV	BETHLEHEM PA	79.2	CP	BPCDT	-20080619ALA
09	WBPH-TV	BETHLEHEM PA	79.2	LIC	BLCDT	-20060609AAH

Total scenarios = 6

Result key: 22  
Scenario 1 Affected station 9  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2046643	2253.7
lost to ATV IX only	2046643	2253.7
lost to all IX	2046643	2253.7

Potential Interfering Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
9A PA BETHLEHEM	BPCDT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3677505	2885.0
lost to ATV IX only	3677505	2885.0
lost to all IX	3677505	2885.0

Potential Interfering Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	WGALAPPB	LIC
9A PA BETHLEHEM	BPCDDT	20080619ALA	CP
7A NY NEW YORK	BPCDDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 999999999999999

Due to interference to the following station and scenario: 1

8D NJ NEW BRUNSWICK BPCDDT WNJBBDT2172  
ERP 21.72 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal:	0.0	to BPCDDT	WNJBBDT2172
Percent Service lost with proposal:	9.7	to BPCDDT	WNJBBDT2172

Result key: 23  
Scenario 2 Affected station 9  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDDT WNJBBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1955056	1682.2
lost to ATV IX only	1955056	1682.2
lost to all IX	1955056	1682.2

Potential Interfering Stations Included in above Scenario 2

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	WGALAPPB	LIC
9A PA BETHLEHEM	BLCDDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3585918	2313.6
lost to ATV IX only	3585918	2313.6
lost to all IX	3585918	2313.6

Potential Interfering Stations Included in above Scenario 2

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 999999999999999

Due to interference to the following station and scenario: 2

8D NJ NEW BRUNSWICK BPCDT WNJBBDT2172  
ERP 21.72 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal:	0.0	to BPCDT	WNJBBDT2172
Percent Service lost with proposal:	9.6	to BPCDT	WNJBBDT2172

Result key: 24  
Scenario 3 Affected station 9  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2307499	2541.4
lost to ATV IX only	2307499	2541.4
lost to all IX	2307499	2541.4

Potential Interfering Stations Included in above Scenario 3

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20090710AKB	CP
9A PA BETHLEHEM	BPCDT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3918396	3164.7
lost to ATV IX only	3918396	3164.7
lost to all IX	3918396	3164.7

Potential Interfering Stations Included in above Scenario 3

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	20090710AKB	CP
9A PA BETHLEHEM	BPCDDT	20080619ALA	CP
7A NY NEW YORK	BPCDDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDDT WABCDT7APPB  
ERP 17.00 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 BPCDDT WNJBBDT2172  
ERP 21.72 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal:	0.0	to BPCDDT	WNJBBDT2172
Percent Service lost with proposal:	9.7	to BPCDDT	WNJBBDT2172

Result key: 25  
Scenario 4 Affected station 9  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDDT WNJBBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2236431	2081.8
lost to ATV IX only	2236431	2081.8
lost to all IX	2236431	2081.8

Potential Interfering Stations Included in above Scenario 4

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	20090710AKB	CP
9A PA BETHLEHEM	BLCDDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3847328	2705.2
lost to ATV IX only	3847328	2705.2
lost to all IX	3847328	2705.2

Potential Interfering Stations Included in above Scenario 4

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20090710AKB	CP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 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 BPCDT WNJBBDT2172  
ERP 21.72 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal:	0.0	to BPCDT	WNJBBDT2172
Percent Service lost with proposal:	9.6	to BPCDT	WNJBBDT2172

Result key: 26  
Scenario 5 Affected station 9  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2606979	2956.9
lost to ATV IX only	2606979	2956.9
lost to all IX	2606979	2956.9

Potential Interfering Stations Included in above Scenario 5

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGAL322KW	APP
9A PA BETHLEHEM	BPCDT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4221536	3568.3
lost to ATV IX only	4221536	3568.3
lost to all IX	4221536	3568.3

Potential Interfering Stations Included in above Scenario 5

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	WGAL322KW	APP
9A PA BETHLEHEM	BPCDDT	20080619ALA	CP
7A NY NEW YORK	BPCDDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDDT WABCDT7APPB  
ERP 17.00 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 BPCDDT WNJBBDT2172  
ERP 21.72 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal:	0.0	to BPCDDT	WNJBBDT2172
Percent Service lost with proposal:	9.9	to BPCDDT	WNJBBDT2172

Result key: 27  
Scenario 6 Affected station 9  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDDT WNJBBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2560889	2589.3
lost to ATV IX only	2560889	2589.3
lost to all IX	2560889	2589.3

Potential Interfering Stations Included in above Scenario 6

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	WGAL322KW	APP
9A PA BETHLEHEM	BLCDDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT2172 APP  
HAAT 215.0 m, ATV ERP 21.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19509672	23795.2
not affected by terrain losses	18936450	21517.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4175446	3200.7
lost to ATV IX only	4175446	3200.7
lost to all IX	4175446	3200.7

Potential Interfering Stations Included in above Scenario 6

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGAL322KW	APP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 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 BPCDT WNJBBDT2172  
ERP 21.72 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal: 0.0 to BPCDT WNJBBDT2172  
Percent Service lost with proposal: 9.9 to BPCDT WNJBBDT2172

Proposed station is MX

7A NY NEW YORK	BPCDT	WABCDT7APPB	APP
8A NJ NEW BRUNSWICK	BPCDT	WNJBBDT2172	APP

Proposal MX with BPCDT WNJBBDT2172 scenario 1 of station 9

Proposed station is MX

7A NY NEW YORK	BPCDT	WABCDT7APPB	APP
8A NJ NEW BRUNSWICK	BPCDT	WNJBBDT2172	APP

Proposal MX with BPCDT WNJBBDT2172 scenario 2 of station 9

Proposed station is MX

7A NY NEW YORK	BPCDT	WABCDT7APPB	APP
8A NJ NEW BRUNSWICK	BPCDT	WNJBBDT2172	APP

Proposal MX with BPCDT WNJBBDT2172 scenario 3 of station 9

Proposed station is MX

7A NY NEW YORK	BPCDT	WABCDT7APPB	APP
8A NJ NEW BRUNSWICK	BPCDT	WNJBBDT2172	APP

Proposal MX with BPCDT WNJBBDT2172 scenario 4 of station 9

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	BPCDT	-WNJBDT4091

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WXXA-TV	ALBANY NY	226.5	LIC	BLCDDT	-20051222AAQ
07	WBNG-TV	BINGHAMTON NY	200.3	LIC	BLCDDT	-20060329ACH
07	WABC-TV	NEW YORK NY	45.9	APP	BPCDDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	42.6	PLN	DTVPLN	-DTVP0350
08	WICZ-TV	BINGHAMTON NY	199.7	LIC	BLCDDT	-20060320AFC
08	WWCP-TV	JOHNSTOWN PA	396.3	CP	BPCDDT	-20080408ABF
08	WWCP-TV	JOHNSTOWN PA	396.3	LIC	BFRCDT	-WWCPAPPB
08	WWCP-TV	JOHNSTOWN PA	396.3	CP MOD	BMPCDDT	-20080620AIX
08	WGAL	LANCASTER PA	190.7	LIC	BPCDDT	-WGALAPPB
08	WGAL	LANCASTER PA	190.7	APP	BPCDDT	-WGAL322KW
08	WGAL	LANCASTER PA	190.7	CP	BPCDDT	-20090710AKB
09	WEDN	NORWICH CT	219.8	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	219.8	CP	BPEDT	-20080206AAH
09	WBPH-TV	BETHLEHEM PA	79.2	CP	BPCDDT	-20080619ALA
09	WBPH-TV	BETHLEHEM PA	79.2	LIC	BLCDDT	-20060609AAH

Total scenarios = 6

Result key: 28  
Scenario 1 Affected station 10  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDDT WNJBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1445954	2529.4
lost to ATV IX only	1445954	2529.4
lost to all IX	1445954	2529.4

Potential Interfering Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	WGALAPPB	LIC
9A PA BETHLEHEM	BPCDDT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3323111	3372.6
lost to ATV IX only	3323111	3372.6
lost to all IX	3323111	3372.6

Potential Interfering Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	WGALAPPB	LIC
9A PA BETHLEHEM	BPCDDT	20080619ALA	CP
7A NY NEW YORK	BPCDDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 999999999999999

Due to interference to the following station and scenario: 1

8D NJ NEW BRUNSWICK BPCDDT WNJBBDT4091  
ERP 40.91 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal: 0.0 to BPCDDT WNJBBDT4091  
Percent Service lost with proposal: 10.2 to BPCDDT WNJBBDT4091

Result key: 29  
Scenario 2 Affected station 10  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDDT WNJBBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1355118	1974.0
lost to ATV IX only	1355118	1974.0
lost to all IX	1355118	1974.0

Potential Interfering Stations Included in above Scenario 2

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	WGALAPPB	LIC
9A PA BETHLEHEM	BLCDDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3232275	2817.1
lost to ATV IX only	3232275	2817.1
lost to all IX	3232275	2817.1

Potential Interfering Stations Included in above Scenario 2

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 999999999999999

Due to interference to the following station and scenario: 2

8D NJ NEW BRUNSWICK BPCDT WNJBBDT4091  
ERP 40.91 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal: 0.0 to BPCDT WNJBBDT4091  
Percent Service lost with proposal: 10.1 to BPCDT WNJBBDT4091

Result key: 30  
Scenario 3 Affected station 10  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1700860	2829.1
lost to ATV IX only	1700860	2829.1
lost to all IX	1700860	2829.1

Potential Interfering Stations Included in above Scenario 3

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20090710AKB	CP
9A PA BETHLEHEM	BPCDT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3560828	3628.3
lost to ATV IX only	3560828	3628.3
lost to all IX	3560828	3628.3

Potential Interfering Stations Included in above Scenario 3

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	20090710AKB	CP
9A PA BETHLEHEM	BPCDDT	20080619ALA	CP
7A NY NEW YORK	BPCDDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDDT WABCDT7APPB  
ERP 17.00 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 BPCDDT WNJBBDT4091  
ERP 40.91 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal: 0.0 to BPCDDT WNJBBDT4091  
Percent Service lost with proposal: 10.2 to BPCDDT WNJBBDT4091

Result key: 31  
Scenario 4 Affected station 10  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDDT WNJBBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1620002	2341.6
lost to ATV IX only	1620002	2341.6
lost to all IX	1620002	2341.6

Potential Interfering Stations Included in above Scenario 4

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	20090710AKB	CP
9A PA BETHLEHEM	BLCDDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3479970	3140.8
lost to ATV IX only	3479970	3140.8
lost to all IX	3479970	3140.8

Potential Interfering Stations Included in above Scenario 4

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20090710AKB	CP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 999999999999999

Due to interference to the following station and scenario: 4

8D NJ NEW BRUNSWICK BPCDT WNJBBDT4091  
ERP 40.91 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal:	0.0	to BPCDT	WNJBBDT4091
Percent Service lost with proposal:	10.2	to BPCDT	WNJBBDT4091

Result key: 32  
Scenario 5 Affected station 10  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2172149	3260.7
lost to ATV IX only	2172149	3260.7
lost to all IX	2172149	3260.7

Potential Interfering Stations Included in above Scenario 5

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGAL322KW	APP
9A PA BETHLEHEM	BPCDT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4026664	4035.9
lost to ATV IX only	4026664	4035.9
lost to all IX	4026664	4035.9

Potential Interfering Stations Included in above Scenario 5

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	WGAL322KW	APP
9A PA BETHLEHEM	BPCDDT	20080619ALA	CP
7A NY NEW YORK	BPCDDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDDT WABCDT7APPB  
ERP 17.00 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 BPCDDT WNJBBDT4091  
ERP 40.91 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal: 0.0 to BPCDDT WNJBBDT4091  
Percent Service lost with proposal: 10.5 to BPCDDT WNJBBDT4091

Result key: 33  
Scenario 6 Affected station 10  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDDT WNJBBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2122924	2865.1
lost to ATV IX only	2122924	2865.1
lost to all IX	2122924	2865.1

Potential Interfering Stations Included in above Scenario 6

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	WGAL322KW	APP
9A PA BETHLEHEM	BLCDDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBBDT4091 APP  
HAAT 215.0 m, ATV ERP 40.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20669128	26529.0
not affected by terrain losses	19917216	24015.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3977439	3640.3
lost to ATV IX only	3977439	3640.3
lost to all IX	3977439	3640.3

Potential Interfering Stations Included in above Scenario 6

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGAL322KW	APP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 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 BPCDT WNJBBDT4091  
ERP 40.91 kW HAAT 215.0 m RCAMSL 281.0 m  
Antenna CDB 00000000084640

Percent Service lost without proposal: 0.0 to BPCDT WNJBBDT4091  
Percent Service lost with proposal: 10.4 to BPCDT WNJBBDT4091

Proposed station is MX

7A NY NEW YORK	BPCDT	WABCDT7APPB	APP
8A NJ NEW BRUNSWICK	BPCDT	WNJBBDT4091	APP

Proposal MX with BPCDT WNJBBDT4091 scenario 1 of station 10

Proposed station is MX

7A NY NEW YORK	BPCDT	WABCDT7APPB	APP
8A NJ NEW BRUNSWICK	BPCDT	WNJBBDT4091	APP

Proposal MX with BPCDT WNJBBDT4091 scenario 2 of station 10

Proposed station is MX

7A NY NEW YORK	BPCDT	WABCDT7APPB	APP
8A NJ NEW BRUNSWICK	BPCDT	WNJBBDT4091	APP

Proposal MX with BPCDT WNJBBDT4091 scenario 3 of station 10

Proposed station is MX

7A NY NEW YORK	BPCDT	WABCDT7APPB	APP
8A NJ NEW BRUNSWICK	BPCDT	WNJBBDT4091	APP

Proposal MX with BPCDT WNJBBDT4091 scenario 4 of station 10

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WNJB	NEW BRUNSWICK NJ	BPCDT	-WNJBAPPB202

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WXXA-TV	ALBANY NY	226.5	LIC	BLCDDT	-20051222AAQ
07	WBNG-TV	BINGHAMTON NY	200.3	LIC	BLCDDT	-20060329ACH
07	WABC-TV	NEW YORK NY	45.9	APP	BPCDDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	42.6	PLN	DTVPLN	-DTVP0350
08	WICZ-TV	BINGHAMTON NY	199.7	LIC	BLCDDT	-20060320AFC
08	WWCP-TV	JOHNSTOWN PA	396.3	CP	BPCDDT	-20080408ABF
08	WWCP-TV	JOHNSTOWN PA	396.3	LIC	BFRCDT	-WWCPAPPB
08	WWCP-TV	JOHNSTOWN PA	396.3	CP MOD	BMPCDDT	-20080620AIX
08	WGAL	LANCASTER PA	190.7	LIC	BPCDDT	-WGALAPPB
08	WGAL	LANCASTER PA	190.7	APP	BPCDDT	-WGAL322KW
08	WGAL	LANCASTER PA	190.7	CP	BPCDDT	-20090710AKB
09	WEDN	NORWICH CT	219.8	CP	BPEDT	-20080619AFA
09	WEDN	NORWICH CT	219.8	CP	BPEDT	-20080206AAH
09	WBPH-TV	BETHLEHEM PA	79.2	CP	BPCDDT	-20080619ALA
09	WBPH-TV	BETHLEHEM PA	79.2	LIC	BLCDDT	-20060609AAH

Total scenarios = 6

Result key: 34

Scenario 1 Affected station 11  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDDT WNJBAPPB202 LIC

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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2060900	2262.9
lost to ATV IX only	2060900	2262.9
lost to all IX	2060900	2262.9

Potential Interfering Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BPCDDT	WGALAPPB	LIC
9A PA BETHLEHEM	BPCDDT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBAPPB202 LIC  
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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4064908	2950.6
lost to ATV IX only	4064908	2950.6
lost to all IX	4064908	2950.6

Potential Interfering Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
9A PA BETHLEHEM	BPCDT	20080619ALA	CP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 999999999999999

Due to interference to the following station and scenario: 1

8D NJ NEW BRUNSWICK BPCDT WNJBAPPB202  
ERP 20.20 kW HAAT 212.0 m RCAMSL 278.0 m  
Antenna CDB 00000000032754

Percent Service lost without proposal:	0.0	to BPCDT	WNJBAPPB202
Percent Service lost with proposal:	11.9	to BPCDT	WNJBAPPB202

Result key: 35  
Scenario 2 Affected station 11  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBAPPB202 LIC  
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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1994310	1751.1
lost to ATV IX only	1994310	1751.1
lost to all IX	1994310	1751.1

Potential Interfering Stations Included in above Scenario 2

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBAPPB202 LIC  
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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3998318	2438.8
lost to ATV IX only	3998318	2438.8
lost to all IX	3998318	2438.8

Potential Interfering Stations Included in above Scenario 2

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGALAPPB	LIC
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 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 BPCDT WNJBAPPB202  
ERP 20.20 kW HAAT 212.0 m RCAMSL 278.0 m  
Antenna CDB 00000000032754

Percent Service lost without proposal:	0.0	to BPCDT	WNJBAPPB202
Percent Service lost with proposal:	11.8	to BPCDT	WNJBAPPB202

Result key: 36  
Scenario 3 Affected station 11  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBAPPB202 LIC  
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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2251135	2546.7
lost to ATV IX only	2251135	2546.7
lost to all IX	2251135	2546.7

Potential Interfering Stations Included in above Scenario 3

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20090710AKB	CP
9A PA BETHLEHEM	BPCDT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBAPPB202 LIC  
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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4254066	3222.4
lost to ATV IX only	4254066	3222.4
lost to all IX	4254066	3222.4

Potential Interfering Stations Included in above Scenario 3

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20090710AKB	CP
9A PA BETHLEHEM	BPCDT	20080619ALA	CP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 999999999999999

Due to interference to the following station and scenario: 3

8D NJ NEW BRUNSWICK BPCDT WNJBAPPB202  
ERP 20.20 kW HAAT 212.0 m RCAMSL 278.0 m  
Antenna CDB 00000000032754

Percent Service lost without proposal:	0.0	to BPCDT	WNJBAPPB202
Percent Service lost with proposal:	12.0	to BPCDT	WNJBAPPB202

Result key: 37  
Scenario 4 Affected station 11  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBAPPB202 LIC  
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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2200412	2131.0
lost to ATV IX only	2200412	2131.0
lost to all IX	2200412	2131.0

Potential Interfering Stations Included in above Scenario 4

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20090710AKB	CP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBAPPB202 LIC  
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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4203343	2806.6
lost to ATV IX only	4203343	2806.6
lost to all IX	4203343	2806.6

Potential Interfering Stations Included in above Scenario 4

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	20090710AKB	CP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 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 BPCDT WNJBAPPB202  
ERP 20.20 kW HAAT 212.0 m RCAMSL 278.0 m  
Antenna CDB 00000000032754

Percent Service lost without proposal:	0.0	to BPCDT	WNJBAPPB202
Percent Service lost with proposal:	12.0	to BPCDT	WNJBAPPB202

Result key: 38  
Scenario 5 Affected station 11  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBAPPB202 LIC  
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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2462543	2942.6
lost to ATV IX only	2462543	2942.6
lost to all IX	2462543	2942.6

Potential Interfering Stations Included in above Scenario 5

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGAL322KW	APP
9A PA BETHLEHEM	BPCDT	20080619ALA	CP
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBAPPB202 LIC  
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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4470334	3594.2
lost to ATV IX only	4470334	3594.2
lost to all IX	4470334	3594.2

Potential Interfering Stations Included in above Scenario 5

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGAL322KW	APP
9A PA BETHLEHEM	BPCDT	20080619ALA	CP
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 kW HAAT 405.0 m RCAMSL 418.5 m  
Antenna 999999999999999

Due to interference to the following station and scenario: 5

8D NJ NEW BRUNSWICK BPCDT WNJBAPPB202  
ERP 20.20 kW HAAT 212.0 m RCAMSL 278.0 m  
Antenna CDB 00000000032754

Percent Service lost without proposal:	0.0	to BPCDT	WNJBAPPB202
Percent Service lost with proposal:	12.2	to BPCDT	WNJBAPPB202

Result key: 39  
Scenario 6 Affected station 11  
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBAPPB202 LIC  
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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2425397	2582.7
lost to ATV IX only	2425397	2582.7
lost to all IX	2425397	2582.7

Potential Interfering Stations Included in above Scenario 6

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGAL322KW	APP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	DTVPLN	DTVP0350	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BPCDT WNJBAPPB202 LIC

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	22520.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4433188	3234.4
lost to ATV IX only	4433188	3234.4
lost to all IX	4433188	3234.4

Potential Interfering Stations Included in above Scenario 6

8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
8A PA LANCASTER	BPCDT	WGAL322KW	APP
9A PA BETHLEHEM	BLCDT	20060609AAH	LIC
7A NY NEW YORK	BPCDT	WABCDT7APPB	APP

The following station failed the de minimis interference criteria.

7D NY NEW YORK BPCDT WABCDT7APPB  
ERP 17.00 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 BPCDT WNJBAPPB202  
ERP 20.20 kW HAAT 212.0 m RCAMSL 278.0 m  
Antenna CDB 00000000032754

Percent Service lost without proposal:	0.0	to BPCDT	WNJBAPPB202
Percent Service lost with proposal:	12.2	to BPCDT	WNJBAPPB202

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Analysis of Interference to Affected Station 12

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	WBNG-TV	BINGHAMTON NY	0.7	LIC	BLCDT	-20060329ACH
07	WWNY-TV	CARTHAGE NY	211.7	CP MOD	BMPCDT	-20080620AIE
07	WWNY-TV	CARTHAGE NY	211.7	CP	BPCDT	-WWNY-APPB
07	WABC-TV	NEW YORK NY	218.6	APP	BPCDT	-WABCDT7APPB
07	WABC-TV	NEW YORK NY	219.6	PLN	DTVPLN	-DTVP0350
08	WNJB	NEW BRUNSWICK NJ	199.7	CP MOD	BMPEDT	-20090729ACO
08	WNJB	NEW BRUNSWICK NJ	199.7	APP	BPCDT	-WNJBBDT2172
08	WNJB	NEW BRUNSWICK NJ	199.7	APP	BPCDT	-WNJBBDT4091
08	WNJB	NEW BRUNSWICK NJ	199.7	LIC	BPCDT	-WNJBAPPB202
08	WWCP-TV	JOHNSTOWN PA	339.9	CP	BPCDT	-20080408ABF
08	WWCP-TV	JOHNSTOWN PA	339.9	LIC	BFRCTT	-WWCPAPPB
08	WWCP-TV	JOHNSTOWN PA	339.9	CP MOD	BMPCDT	-20080620AIX
08	WGAL	LANCASTER PA	231.7	LIC	BPCDT	-WGALAPPB
08	WGAL	LANCASTER PA	231.7	APP	BPCDT	-WGAL322KW
08	WGAL	LANCASTER PA	231.7	CP	BPCDT	-20090710AKB
09	WBPH-TV	BETHLEHEM PA	171.1	CP	BPCDT	-20080619ALA
09	WBPH-TV	BETHLEHEM PA	171.1	LIC	BLCDT	-20060609AAH

Proposal causes no interference

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Analysis of Interference to Affected Station 13

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
07	WABC-TV	NEW YORK NY	DTVPLN	-DTVP0350

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
Results for: 7A NY NEW YORK						
HAAT 491.0 m, ATV ERP 3.2 kW			DTVPLN	DTVP0350	PLN	
			POPULATION	AREA (sq km)		
within Noise Limited Contour			19475637	26404.5		
not affected by terrain losses			19297238	25374.6		
lost to NTSC IX			0	0.0		
lost to additional IX by ATV			0	0.0		
lost to ATV IX only			0	0.0		
lost to all IX			0	0.0		

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WABC-TV	NEW YORK NY	BPCDT	-WABCDT7APPB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	331.1	CP MOD	BMPCDT	-20080620AIH
07	WJLA-TV	WASHINGTON DC	331.1	CP	BPCDT	-WJLA-APPB
07	WXXA-TV	ALBANY NY	208.6	LIC	BLCDDT	-20051222AAQ
07	WBNG-TV	BINGHAMTON NY	219.2	LIC	BLCDDT	-20060329ACH
07	WWNY-TV	CARTHAGE NY	384.0	CP MOD	BMPCDT	-20080620AIE
07	WWNY-TV	CARTHAGE NY	384.0	CP	BPCDT	-WWNY-APPB
08	WNJB	NEW BRUNSWICK NJ	45.9	CP MOD	BMPEDT	-20090729ACO
08	WNJB	NEW BRUNSWICK NJ	45.9	APP	BPCDT	-WNJBBDT2172
08	WNJB	NEW BRUNSWICK NJ	45.9	APP	BPCDT	-WNJBBDT4091
08	WNJB	NEW BRUNSWICK NJ	45.9	LIC	BPCDT	-WNJBAPPB202
08	WICZ-TV	BINGHAMTON NY	218.6	LIC	BLCDDT	-20060320AFC

Total scenarios = 8

Result key: 40  
Scenario 1 Affected station 13  
Before Analysis

Results for: 7A NY NEW YORK BPCDT WABCDT7APPB APP  
HAAT 405.0 m, ATV ERP 17.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20605304	34254.0
not affected by terrain losses	20239355	32127.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	184126	969.7
lost to ATV IX only	184126	969.7
lost to all IX	184126	969.7

Potential Interferring Stations Included in above Scenario 1

7A DC WASHINGTON	BMPCDT	20080620AIH	CP
7A NY ALBANY	BLCDDT	20051222AAQ	LIC
7A NY BINGHAMTON	BLCDDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BMPEDT	20090729ACO	CP

Result key: 41  
Scenario 2 Affected station 13  
Before Analysis

Results for: 7A NY NEW YORK BPCDT WABCDT7APPB APP  
HAAT 405.0 m, ATV ERP 17.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20605304	34254.0
not affected by terrain losses	20239355	32127.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	203459	1053.5
lost to ATV IX only	203459	1053.5
lost to all IX	203459	1053.5

Potential Interferring Stations Included in above Scenario 2

7A DC WASHINGTON	BMPCDT	20080620AIH	CP
7A NY ALBANY	BLCDT	20051222AAQ	LIC
7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BPCDT	WNJBAPPB202	LIC

Result key: 42  
Scenario 3 Affected station 13  
Before Analysis

Results for: 7A NY NEW YORK BPCDT WABCDT7APPB APP  
HAAT 405.0 m, ATV ERP 17.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20605304	34254.0
not affected by terrain losses	20239355	32127.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	172480	913.8
lost to ATV IX only	172480	913.8
lost to all IX	172480	913.8

Potential Interferring Stations Included in above Scenario 3

7A DC WASHINGTON	BPCDT	WJLA-APPB	CP
7A NY ALBANY	BLCDT	20051222AAQ	LIC
7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BMPEDT	20090729ACO	CP

Result key: 43  
Scenario 4 Affected station 13  
Before Analysis

Results for: 7A NY NEW YORK BPCDT WABCDT7APPB APP  
HAAT 405.0 m, ATV ERP 17.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20605304	34254.0
not affected by terrain losses	20239355	32127.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	191813	997.6
lost to ATV IX only	191813	997.6
lost to all IX	191813	997.6

Potential Interferring Stations Included in above Scenario 4

7A DC WASHINGTON	BPCDT	WJLA-APPB	CP
7A NY ALBANY	BLCDT	20051222AAQ	LIC
7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BPCDT	WNJBAPPB202	LIC

Result key: 44  
Scenario 5 Affected station 13  
Before Analysis

Results for: 7A NY NEW YORK BPCDT WABCDT7APPB APP  
HAAT 405.0 m, ATV ERP 17.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20605304	34254.0
not affected by terrain losses	20239355	32127.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	202070	1045.5
lost to ATV IX only	202070	1045.5
lost to all IX	202070	1045.5

Potential Interfering Stations Included in above Scenario 5

7A DC WASHINGTON	BMPCDT	20080620AIH	CP
7A NY ALBANY	BLCDT	20051222AAQ	LIC
7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BPCDT	WNJBBDT2172	APP

Result key: 45  
Scenario 6 Affected station 13  
Before Analysis

Results for: 7A NY NEW YORK BPCDT WABCDT7APPB APP  
HAAT 405.0 m, ATV ERP 17.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20605304	34254.0
not affected by terrain losses	20239355	32127.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	242483	1265.0
lost to ATV IX only	242483	1265.0
lost to all IX	242483	1265.0

Potential Interfering Stations Included in above Scenario 6

7A DC WASHINGTON	BMPCDT	20080620AIH	CP
7A NY ALBANY	BLCDT	20051222AAQ	LIC
7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BPCDT	WNJBBDT4091	APP

Result key: 46  
Scenario 7 Affected station 13  
Before Analysis

Results for: 7A NY NEW YORK BPCDT WABCDT7APPB APP  
HAAT 405.0 m, ATV ERP 17.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20605304	34254.0
not affected by terrain losses	20239355	32127.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	190424	989.6
lost to ATV IX only	190424	989.6
lost to all IX	190424	989.6

Potential Interfering Stations Included in above Scenario 7

7A DC WASHINGTON	BPCDT	WJLA-APPB	CP
7A NY ALBANY	BLCDT	20051222AAQ	LIC
7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BPCDT	WNJB DT2172	APP

Result key: 47  
Scenario 8 Affected station 13  
Before Analysis

Results for: 7A NY NEW YORK BPCDT WABCDT7APPB APP  
HAAT 405.0 m, ATV ERP 17.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20605304	34254.0
not affected by terrain losses	20239355	32127.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	230837	1209.1
lost to ATV IX only	230837	1209.1
lost to all IX	230837	1209.1

Potential Interfering Stations Included in above Scenario 8

7A DC WASHINGTON	BPCDT	WJLA-APPB	CP
7A NY ALBANY	BLCDT	20051222AAQ	LIC
7A NY BINGHAMTON	BLCDT	20060329ACH	LIC
8A NJ NEW BRUNSWICK	BPCDT	WNJB DT4091	APP

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

Evaluation toward Class A Stations

Moved to the end of the TV Process Output  
Affected Station 7 shows no predicted interference (page 21)

Contour overlap to Class A station  
W07BV 7 WILKES-BARRE PA BLTVL 19930202IE  
D/U ratio at contour 32.43 dB  
Offset Proposed Offset Class A - Required D/U ratio: 34.0  
Radial 0.0 degrees  
Bearing to point on contour 291.6 degrees  
D/U ratio at contour 32.38 dB  
Radial 1.0 degrees  
Bearing to point on contour 291.4 degrees  
D/U ratio at contour 32.32 dB  
Radial 2.0 degrees  
Bearing to point on contour 291.3 degrees  
D/U ratio at contour 32.27 dB  
Radial 3.0 degrees  
Bearing to point on contour 291.2 degrees  
D/U ratio at contour 32.23 dB  
Radial 4.0 degrees  
Bearing to point on contour 291.0 degrees  
D/U ratio at contour 32.18 dB  
Radial 5.0 degrees  
Bearing to point on contour 290.9 degrees  
D/U ratio at contour 32.14 dB  
Radial 6.0 degrees  
Bearing to point on contour 290.7 degrees  
D/U ratio at contour 32.10 dB  
Radial 7.0 degrees  
Bearing to point on contour 290.6 degrees  
D/U ratio at contour 32.06 dB  
Radial 8.0 degrees  
Bearing to point on contour 290.4 degrees  
D/U ratio at contour 32.02 dB  
Radial 9.0 degrees  
Bearing to point on contour 290.2 degrees  
D/U ratio at contour 31.99 dB  
Radial 10.0 degrees  
Bearing to point on contour 290.0 degrees  
D/U ratio at contour 31.96 dB  
Radial 11.0 degrees  
Bearing to point on contour 289.8 degrees  
D/U ratio at contour 31.93 dB  
Radial 12.0 degrees  
Bearing to point on contour 289.6 degrees  
D/U ratio at contour 31.91 dB  
Radial 13.0 degrees  
Bearing to point on contour 289.4 degrees  
D/U ratio at contour 31.89 dB  
Radial 14.0 degrees  
Bearing to point on contour 289.2 degrees  
D/U ratio at contour 31.88 dB  
Radial 15.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.87 dB  
Radial 16.0 degrees  
Bearing to point on contour 288.9 degrees

D/U ratio at contour 31.87 dB  
Radial 17.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.87 dB  
Radial 18.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.87 dB  
Radial 19.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.87 dB  
Radial 20.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.86 dB  
Radial 21.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.86 dB  
Radial 22.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.86 dB  
Radial 23.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.86 dB  
Radial 24.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.86 dB  
Radial 25.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.86 dB  
Radial 26.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.85 dB  
Radial 27.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.85 dB  
Radial 28.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.85 dB  
Radial 29.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.85 dB  
Radial 30.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.85 dB  
Radial 31.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.84 dB  
Radial 32.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.84 dB  
Radial 33.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.84 dB  
Radial 34.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.83 dB  
Radial 35.0 degrees  
Bearing to point on contour 288.8 degrees

D/U ratio at contour 31.83 dB  
Radial 36.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.83 dB  
Radial 37.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.82 dB  
Radial 38.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.82 dB  
Radial 39.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.82 dB  
Radial 40.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.81 dB  
Radial 41.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.81 dB  
Radial 42.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.80 dB  
Radial 43.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.80 dB  
Radial 44.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.80 dB  
Radial 45.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.79 dB  
Radial 46.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.79 dB  
Radial 47.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.78 dB  
Radial 48.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.78 dB  
Radial 49.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.78 dB  
Radial 50.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.77 dB  
Radial 51.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.77 dB  
Radial 52.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.77 dB  
Radial 53.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.76 dB  
Radial 54.0 degrees  
Bearing to point on contour 288.9 degrees

D/U ratio at contour 31.76 dB  
Radial 55.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.76 dB  
Radial 56.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.75 dB  
Radial 57.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.75 dB  
Radial 58.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.75 dB  
Radial 59.0 degrees  
Bearing to point on contour 288.9 degrees  
D/U ratio at contour 31.74 dB  
Radial 60.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.74 dB  
Radial 61.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.74 dB  
Radial 62.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.74 dB  
Radial 63.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.73 dB  
Radial 64.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.73 dB  
Radial 65.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.73 dB  
Radial 66.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.73 dB  
Radial 67.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.73 dB  
Radial 68.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.72 dB  
Radial 69.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.72 dB  
Radial 70.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.72 dB  
Radial 71.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.72 dB  
Radial 72.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.71 dB  
Radial 73.0 degrees  
Bearing to point on contour 288.8 degrees

D/U ratio at contour 31.71 dB  
Radial 74.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.71 dB  
Radial 75.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.71 dB  
Radial 76.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.71 dB  
Radial 77.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.71 dB  
Radial 78.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.70 dB  
Radial 79.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.70 dB  
Radial 80.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.70 dB  
Radial 81.0 degrees  
Bearing to point on contour 288.8 degrees  
D/U ratio at contour 31.70 dB  
Radial 82.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.70 dB  
Radial 83.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.70 dB  
Radial 84.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.70 dB  
Radial 85.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.70 dB  
Radial 86.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.70 dB  
Radial 87.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.69 dB  
Radial 88.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.69 dB  
Radial 89.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.69 dB  
Radial 90.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.69 dB  
Radial 91.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.69 dB  
Radial 92.0 degrees  
Bearing to point on contour 288.7 degrees

D/U ratio at contour 31.69 dB  
Radial 93.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.69 dB  
Radial 94.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.69 dB  
Radial 95.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.68 dB  
Radial 96.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.68 dB  
Radial 97.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.68 dB  
Radial 98.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.67 dB  
Radial 99.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.66 dB  
Radial 100.0 degrees  
Bearing to point on contour 288.7 degrees  
D/U ratio at contour 31.66 dB  
Radial 101.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.66 dB  
Radial 102.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.65 dB  
Radial 103.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.64 dB  
Radial 104.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.64 dB  
Radial 105.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.64 dB  
Radial 106.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.64 dB  
Radial 107.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.64 dB  
Radial 108.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.64 dB  
Radial 109.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.64 dB  
Radial 110.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.64 dB  
Radial 111.0 degrees  
Bearing to point on contour 288.6 degrees

D/U ratio at contour 31.64 dB  
Radial 112.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.64 dB  
Radial 113.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.64 dB  
Radial 114.0 degrees  
Bearing to point on contour 288.6 degrees  
D/U ratio at contour 31.64 dB  
Radial 115.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.65 dB  
Radial 116.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.65 dB  
Radial 117.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.65 dB  
Radial 118.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.66 dB  
Radial 119.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.66 dB  
Radial 120.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.66 dB  
Radial 121.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.67 dB  
Radial 122.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.67 dB  
Radial 123.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.67 dB  
Radial 124.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.67 dB  
Radial 125.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.68 dB  
Radial 126.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.68 dB  
Radial 127.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.68 dB  
Radial 128.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.69 dB  
Radial 129.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.69 dB  
Radial 130.0 degrees  
Bearing to point on contour 288.5 degrees

D/U ratio at contour 31.69 dB  
Radial 131.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.69 dB  
Radial 132.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.70 dB  
Radial 133.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.70 dB  
Radial 134.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.71 dB  
Radial 135.0 degrees  
Bearing to point on contour 288.5 degrees  
D/U ratio at contour 31.70 dB  
Radial 136.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.71 dB  
Radial 137.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.71 dB  
Radial 138.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.71 dB  
Radial 139.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.71 dB  
Radial 140.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.71 dB  
Radial 141.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.71 dB  
Radial 142.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.72 dB  
Radial 143.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.72 dB  
Radial 144.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.72 dB  
Radial 145.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.72 dB  
Radial 146.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.73 dB  
Radial 147.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.73 dB  
Radial 148.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.73 dB  
Radial 149.0 degrees  
Bearing to point on contour 288.4 degrees

D/U ratio at contour 31.73 dB  
Radial 150.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.73 dB  
Radial 151.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.74 dB  
Radial 152.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.74 dB  
Radial 153.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.74 dB  
Radial 154.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.74 dB  
Radial 155.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.75 dB  
Radial 156.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.75 dB  
Radial 157.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.75 dB  
Radial 158.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.76 dB  
Radial 159.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.75 dB  
Radial 160.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.76 dB  
Radial 161.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.76 dB  
Radial 162.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.76 dB  
Radial 163.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.77 dB  
Radial 164.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.77 dB  
Radial 165.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.77 dB  
Radial 166.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.78 dB  
Radial 167.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.78 dB  
Radial 168.0 degrees  
Bearing to point on contour 288.3 degrees

D/U ratio at contour 31.79 dB  
Radial 169.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.79 dB  
Radial 170.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.79 dB  
Radial 171.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.80 dB  
Radial 172.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.80 dB  
Radial 173.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.80 dB  
Radial 174.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.81 dB  
Radial 175.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.81 dB  
Radial 176.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.81 dB  
Radial 177.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.82 dB  
Radial 178.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.82 dB  
Radial 179.0 degrees  
Bearing to point on contour 288.3 degrees  
D/U ratio at contour 31.83 dB  
Radial 180.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.83 dB  
Radial 181.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.83 dB  
Radial 182.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.84 dB  
Radial 183.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.84 dB  
Radial 184.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.84 dB  
Radial 185.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.84 dB  
Radial 186.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.84 dB  
Radial 187.0 degrees  
Bearing to point on contour 288.4 degrees

D/U ratio at contour 31.85 dB  
Radial 188.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.85 dB  
Radial 189.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.85 dB  
Radial 190.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.86 dB  
Radial 191.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.86 dB  
Radial 192.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.86 dB  
Radial 193.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.86 dB  
Radial 194.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.86 dB  
Radial 195.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.87 dB  
Radial 196.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.87 dB  
Radial 197.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.87 dB  
Radial 198.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.87 dB  
Radial 199.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.88 dB  
Radial 200.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.88 dB  
Radial 201.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.88 dB  
Radial 202.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.88 dB  
Radial 203.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.88 dB  
Radial 204.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.88 dB  
Radial 205.0 degrees  
Bearing to point on contour 288.4 degrees  
D/U ratio at contour 31.90 dB  
Radial 206.0 degrees  
Bearing to point on contour 288.3 degrees

D/U ratio at contour 31.92 dB  
Radial 207.0 degrees  
Bearing to point on contour 288.1 degrees  
D/U ratio at contour 31.94 dB  
Radial 208.0 degrees  
Bearing to point on contour 288.0 degrees  
D/U ratio at contour 31.96 dB  
Radial 209.0 degrees  
Bearing to point on contour 287.9 degrees  
D/U ratio at contour 31.98 dB  
Radial 210.0 degrees  
Bearing to point on contour 287.8 degrees  
D/U ratio at contour 32.00 dB  
Radial 211.0 degrees  
Bearing to point on contour 287.7 degrees  
D/U ratio at contour 32.02 dB  
Radial 212.0 degrees  
Bearing to point on contour 287.6 degrees  
D/U ratio at contour 32.05 dB  
Radial 213.0 degrees  
Bearing to point on contour 287.5 degrees  
D/U ratio at contour 32.08 dB  
Radial 214.0 degrees  
Bearing to point on contour 287.4 degrees  
D/U ratio at contour 32.11 dB  
Radial 215.0 degrees  
Bearing to point on contour 287.3 degrees  
D/U ratio at contour 32.14 dB  
Radial 216.0 degrees  
Bearing to point on contour 287.2 degrees  
D/U ratio at contour 32.19 dB  
Radial 217.0 degrees  
Bearing to point on contour 287.1 degrees  
D/U ratio at contour 32.23 dB  
Radial 218.0 degrees  
Bearing to point on contour 286.9 degrees  
D/U ratio at contour 32.27 dB  
Radial 219.0 degrees  
Bearing to point on contour 286.8 degrees  
D/U ratio at contour 32.31 dB  
Radial 220.0 degrees  
Bearing to point on contour 286.7 degrees  
D/U ratio at contour 32.36 dB  
Radial 221.0 degrees  
Bearing to point on contour 286.7 degrees  
D/U ratio at contour 32.41 dB  
Radial 222.0 degrees  
Bearing to point on contour 286.6 degrees  
D/U ratio at contour 32.46 dB  
Radial 223.0 degrees  
Bearing to point on contour 286.5 degrees  
D/U ratio at contour 32.51 dB  
Radial 224.0 degrees  
Bearing to point on contour 286.4 degrees  
D/U ratio at contour 32.56 dB  
Radial 225.0 degrees  
Bearing to point on contour 286.3 degrees

D/U ratio at contour 32.61 dB  
Radial 226.0 degrees  
Bearing to point on contour 286.2 degrees  
D/U ratio at contour 32.66 dB  
Radial 227.0 degrees  
Bearing to point on contour 286.2 degrees  
D/U ratio at contour 32.71 dB  
Radial 228.0 degrees  
Bearing to point on contour 286.1 degrees  
D/U ratio at contour 32.77 dB  
Radial 229.0 degrees  
Bearing to point on contour 286.1 degrees  
D/U ratio at contour 32.82 dB  
Radial 230.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 32.88 dB  
Radial 231.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 32.94 dB  
Radial 232.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 32.99 dB  
Radial 233.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 33.05 dB  
Radial 234.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 33.11 dB  
Radial 235.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 33.16 dB  
Radial 236.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 33.22 dB  
Radial 237.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 33.27 dB  
Radial 238.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 33.32 dB  
Radial 239.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 33.37 dB  
Radial 240.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 33.43 dB  
Radial 241.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 33.48 dB  
Radial 242.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 33.54 dB  
Radial 243.0 degrees  
Bearing to point on contour 285.7 degrees  
D/U ratio at contour 33.59 dB  
Radial 244.0 degrees  
Bearing to point on contour 285.7 degrees

D/U ratio at contour 33.64 dB  
Radial 245.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 33.68 dB  
Radial 246.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 33.73 dB  
Radial 247.0 degrees  
Bearing to point on contour 285.8 degrees  
D/U ratio at contour 33.77 dB  
Radial 248.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 33.81 dB  
Radial 249.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 33.85 dB  
Radial 250.0 degrees  
Bearing to point on contour 285.9 degrees  
D/U ratio at contour 33.89 dB  
Radial 251.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 33.93 dB  
Radial 252.0 degrees  
Bearing to point on contour 286.0 degrees  
D/U ratio at contour 33.97 dB  
Radial 253.0 degrees  
Bearing to point on contour 286.1 degrees  
D/U ratio at contour 33.97 dB  
Radial 329.0 degrees  
Bearing to point on contour 291.9 degrees  
D/U ratio at contour 33.94 dB  
Radial 330.0 degrees  
Bearing to point on contour 291.9 degrees  
D/U ratio at contour 33.90 dB  
Radial 331.0 degrees  
Bearing to point on contour 292.0 degrees  
D/U ratio at contour 33.86 dB  
Radial 332.0 degrees  
Bearing to point on contour 292.0 degrees  
D/U ratio at contour 33.83 dB  
Radial 333.0 degrees  
Bearing to point on contour 292.1 degrees  
D/U ratio at contour 33.79 dB  
Radial 334.0 degrees  
Bearing to point on contour 292.1 degrees  
D/U ratio at contour 33.75 dB  
Radial 335.0 degrees  
Bearing to point on contour 292.2 degrees  
D/U ratio at contour 33.70 dB  
Radial 336.0 degrees  
Bearing to point on contour 292.2 degrees  
D/U ratio at contour 33.65 dB  
Radial 337.0 degrees  
Bearing to point on contour 292.2 degrees  
D/U ratio at contour 33.60 dB  
Radial 338.0 degrees  
Bearing to point on contour 292.2 degrees

D/U ratio at contour 33.55 dB  
Radial 339.0 degrees  
Bearing to point on contour 292.3 degrees  
D/U ratio at contour 33.50 dB  
Radial 340.0 degrees  
Bearing to point on contour 292.3 degrees  
D/U ratio at contour 33.45 dB  
Radial 341.0 degrees  
Bearing to point on contour 292.3 degrees  
D/U ratio at contour 33.40 dB  
Radial 342.0 degrees  
Bearing to point on contour 292.3 degrees  
D/U ratio at contour 33.35 dB  
Radial 343.0 degrees  
Bearing to point on contour 292.3 degrees  
D/U ratio at contour 33.30 dB  
Radial 344.0 degrees  
Bearing to point on contour 292.3 degrees  
D/U ratio at contour 33.25 dB  
Radial 345.0 degrees  
Bearing to point on contour 292.3 degrees  
D/U ratio at contour 33.20 dB  
Radial 346.0 degrees  
Bearing to point on contour 292.3 degrees  
D/U ratio at contour 33.14 dB  
Radial 347.0 degrees  
Bearing to point on contour 292.3 degrees  
D/U ratio at contour 33.09 dB  
Radial 348.0 degrees  
Bearing to point on contour 292.3 degrees  
D/U ratio at contour 33.03 dB  
Radial 349.0 degrees  
Bearing to point on contour 292.2 degrees  
D/U ratio at contour 32.97 dB  
Radial 350.0 degrees  
Bearing to point on contour 292.2 degrees  
D/U ratio at contour 32.92 dB  
Radial 351.0 degrees  
Bearing to point on contour 292.2 degrees  
D/U ratio at contour 32.86 dB  
Radial 352.0 degrees  
Bearing to point on contour 292.1 degrees  
D/U ratio at contour 32.81 dB  
Radial 353.0 degrees  
Bearing to point on contour 292.1 degrees  
D/U ratio at contour 32.76 dB  
Radial 354.0 degrees  
Bearing to point on contour 292.0 degrees  
D/U ratio at contour 32.71 dB  
Radial 355.0 degrees  
Bearing to point on contour 292.0 degrees  
D/U ratio at contour 32.65 dB  
Radial 356.0 degrees  
Bearing to point on contour 291.9 degrees  
D/U ratio at contour 32.59 dB  
Radial 357.0 degrees  
Bearing to point on contour 291.8 degrees

D/U ratio at contour 32.54 dB  
Radial 358.0 degrees  
Bearing to point on contour 291.8 degrees  
D/U ratio at contour 32.48 dB  
Radial 359.0 degrees  
Bearing to point on contour 291.7 degrees

Class A Evaluation Complete

End Exhibit 2

-0-

WABC Exhibit 3  
December 2009

Exhibit 3

Antenna Elevation Pattern Data

Exhibit Contents

Pages 1 and 2: Antenna Elevation Pattern Plot

Page 3: Antenna Elevation Pattern Tabulation

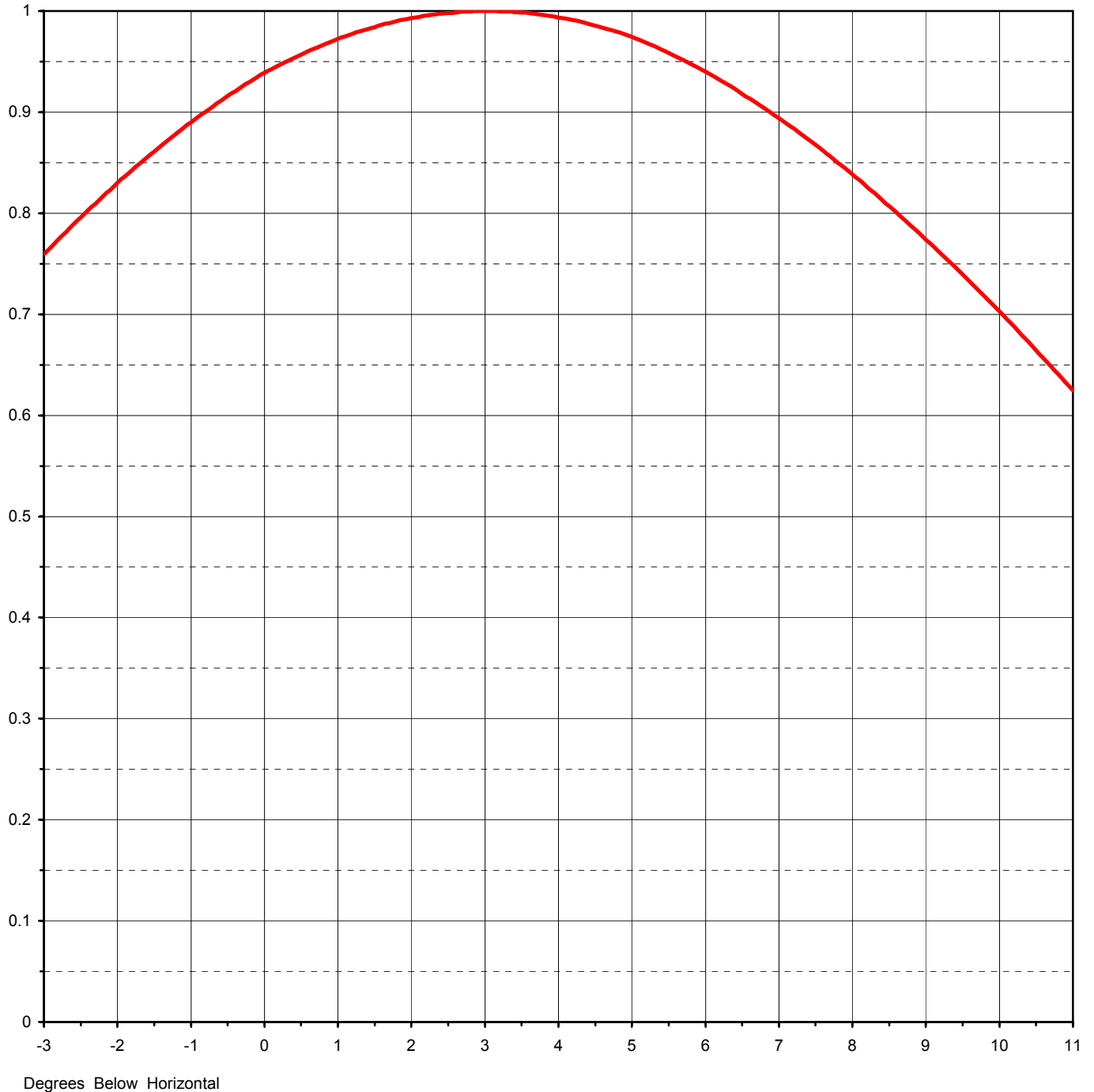
The antenna described in this Exhibit is a Dielectric model  
THA-O4-2H/8UD2SP-2-HM non-directional antenna with electrical beam tilt.



Proposal Number	<b>DCA-10218</b>	Revision:	<b>4</b>
Date	<b>20-Dec-04</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>

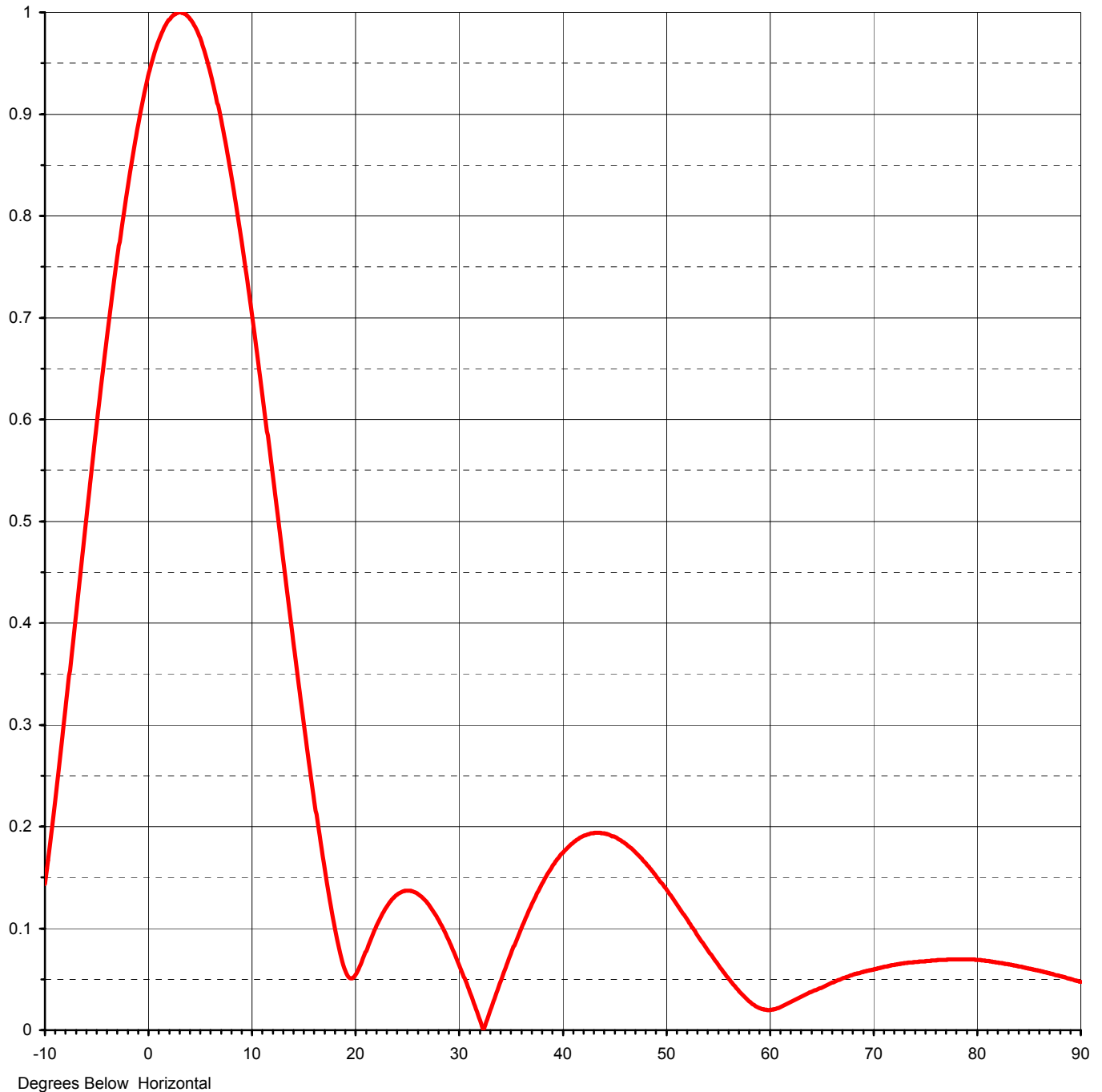




Proposal Number	<b>DCA-10218</b>	Revision:	<b>4</b>
Date	<b>20-Dec-04</b>		
Call Letters		Channel	<b>7</b>
Location	<b>New York, NY</b>		
Customer			
Antenna Type	<b>THA-O4-2H/8UD2SP-2-HM</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>4.10 ( 6.13 dB )</b>	Beam Tilt	<b>3.00 deg</b>
RMS Gain at Horizontal	<b>3.60 ( 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**  
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		