

**ENGINEERING EXHIBIT
IN SUPPORT OF AN APPLICATION FOR
POST-TRANSITION CONSTRUCTION PERMIT
WABC-DT – NEW YORK, NEW YORK
FACILITY ID NUMBER 1328
PROPOSED FREEDOM TOWER
CHANNEL 7 – 5.59 KW – 505.0 M HAAT**

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**ENGINEERING STATEMENT
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WABC-DT – NEW YORK, NEW YORK
FACILITY ID NUMBER 1328
PROPOSED FREEDOM TOWER
CHANNEL 7 – 5.59 KW –505.0 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., licensee of Television Station WABC-TV, Channel 7, New York, New York (WABC), has authorized this office to prepare this statement, the technical portions of FCC Form 301 and associated exhibits in support of an application for post-transition DTV Construction Permit. Through this application, WABC seeks acceptance and delayed processing of the instant application (Application) for a construction permit on the proposed Freedom Tower building in Lower Manhattan, near the previous site of the World Trade Center. Through this application, WABC seeks interference protection for the proposed Freedom Tower facility, which may be the next logical and possible step in the reconstruction of the facilities that were lost in the attacks of September 11, 2001. WABC-DT was operating from the World Trade Center of the day of the terrorist attacks under automatic program test authority. The WABC Appendix B facility bears the geographic coordinates of the north World Trade Center Building.

Because no suitable structure exists at or near the site of the former north World Trade Center Building, WABC-DT cannot operate from its Appendix B location. It also appears that several years may pass before the Freedom Tower building is completed. As a result of these circumstances, to provide continuity of service, WABC-DT has constructed NTSC and DTV facilities at the Empire State Building.

WABC-TV began broadcasting in August 1948 and participated in improvement of the facilities at the Empire State Building in the early 1950's. The WABC-TV transmitting facility moved to the World Trade Center in 1980. WABC applied for its first DTV construction permit in 1998. This permit specified the Empire State Building as the transmitting location. In the year 2000, a lease agreement was reached with the Port Authority of New York and New Jersey to use the World Trade Center for DTV transmission as well. The original WABC-DT Construction Permit was modified to specify the World Trade Center location and on July 7, 2001, an application to license WABC-DT for operation on its initial allotment was filed. A few months later, the WABC channel 7 NTSC and Initial Allotment DTV facilities were lost in the attacks of September 11, 2001.

Since shortly after September 11, 2001, WABC has been operating NTSC and DTV transmission facilities at the Empire State Building. WABC has been operating under STA for its NTSC operation at the Empire State Building and under Automatic Program Test Authority at the same location after filing an application for DTV Auxiliary License.

Reconstruction of WABC Transmission Facilities

WABC and other broadcasters have been participating in the planning and design process of the Freedom Tower project. In the present stage of design and plan development, the Freedom Tower is proposed to be a tall building that is to be immediately adjacent to the former location of the two World Trade Center buildings. If this new building offers suitable infrastructure to support broadcasting operations and is shown to provide an opportunity to improve the reliability and quality of digital television service, WABC will determine the feasibility of constructing facilities at this location as part of its continuing effort to improve service to its city of license and those viewers who rely on over the air television reception.

WABC has been granted a construction permit for post-transition operation from the Empire State Building, as authorized in BPCDT-20080529AJT. WABC intends to operate the facilities that are described in this outstanding construction permit and eventually license these facilities for post-transition operation. In addition to the Empire State Building, the Commission has authorized WABC to operate NTSC auxiliary facilities on the 4 Times Square Building in Manhattan and in Alpine, New Jersey. WABC plans to convert these NTSC Auxiliary facilities to post-transition DTV Auxiliary facilities.

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 BMPCDT-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.

Through this application, WABC seeks authority to construct a post-transition DTV facility at the proposed Freedom Tower Building. The antenna that is proposed for use by WABC is a Dielectric DCBR-O4-2HA/8H-1. This antenna will be located at 505 meters HAAT. In addition to WABC, channel 7, this antenna will accommodate post-transition operation of channels 11, and 13.

Licensed Facility

The WABC-TV license bears FCC File Number BLCT-19800730KG and specifies 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.

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. The instant application 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 proposed Freedom Tower building are shown in the associated FCC Form 301 Tech Box. The 43 dBu F(50:90) principal community coverage contour and the 36 dBu F(50:90) noise limited contour are shown in the attached figure that is labeled Exhibit 2. This Exhibit clearly shows the limits of New York City and also shows that the proposed WABC post-transition DTV facility 43 dBu F(50:90) principal community contour completely encompasses the city of license.

The proposed antenna, a Dielectric DCBR-O4-2HA/8H-1, was selected because of its impedance and pattern bandwidth which make it well suited for multi-station use. The proposed antenna will be operated on channel 7, and will be shared by channels 11 and 13.

The proposed WABC Freedom Tower post-transition facility will produce an ERP of 5.59 kilowatts at an HAAT of 505 meters. A suitable combiner system is being designed to enable use of a single antenna by the three high-VHF stations that propose to operate from the Freedom Tower.

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 television 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 2.

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 is being designed with shared antenna use as a prime specification. Measurements will be 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 coverage contour of the WABC Appendix B facilities and the proposed WABC facilities at the proposed Freedom Tower were plotted using methods described in the Rules. The contours described in this paragraph are shown in the figures which are labeled Exhibit 1 are included as part of this engineering statement.

The proposed WABC post-transition facility will provide service to those viewers who reside within the Noise Limited coverage contour of the WABC Appendix B facility. WABC proposes operation from the Freedom Tower with an ERP of 5.59 KW. This ERP meets the requirements of Section 73.622(f)(7)(ii) for an HAAT of 505 meters HAAT. The figure that is labeled Exhibit 1 shows the location of the noise limited contour predicted from the WABC Appendix B facilities as a blue dashed line. The predicted noise limited contour that is generated by the proposed WABC post-transition facility at the proposed Freedom Tower is shown in red.

The proposed ERP is higher than that shown in Appendix B and serves a second purpose to improve service to viewers in the immediate vicinity of the transmitter – areas that are 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, typical residential buildings in Manhattan and other New York City Boroughs usually do not lend themselves to outdoor antenna installations by individual residents.

The proposed facility meets the requirements of Section 73.616 in all cases except one. From studies that were conducted as part of the channel election process, the location of interference to this single facility that exceeds the requirements of Section 73.616 occurs outside the target service area of the affected station. The complete results of the interference study in TV Process output format are contained in the figure that is labeled Exhibit 3.

Protection to DTV Post-Transition Facilities

The Commission's TV_Process program was run with the proposed parameters for operation at the Freedom Tower Building. The program identified post-transition facilities of eight 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 this software.

The proposed WABC post-transition operation from the proposed Freedom Tower Building was studied for additional interference to the post-transition facilities contained in Appendix B (FCC 08-72). The interference study identified eight stations as potentially affected by the proposed WABC post-transition Freedom Tower operation. As the results of the interference calculations indicate, the proposed post-transition operation of WABC-DT from the proposed Freedom Tower 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 5.59 KW with the proposed Dielectric high VHF channel antenna system at the proposed Freedom Tower Building in place of the WABC Appendix B facilities identified seven stations and the study shows the following results:

07 WBNG-TV, Binghamton, NY	0.1284% Additional Interference
07 WXXA-TV, Albany, NY	0.0345% Additional Interference
07 WWNY-TV, Carthage, NY	Proposal Causes No Interference
07 WJLA-TV, Washington, DC	Proposal Causes No Interference
07 WHDH-TV, Boston, MA	0.0068% Additional Interference
08 WICZ-TV Binghamton, NY	Proposal Causes No Interference
08 WNJB, New Brunswick, NJ	5.7587% Additional Interference
07 W07BV, Wilkes-Barre, PA	Proposal Causes No Interference

The complete interference study in TV Process output format is attached as Exhibit 3.

Protection of AM Stations and Protected Receiving Locations

The Commission's database contains no AM facilities within 3.2 kilometers of the proposed Freedom Tower Building. This 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 of 80 kilometers or less 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 proposed Freedom Tower Building will comply with the FCC's rules and guidelines pertaining to human exposure to electromagnetic energy. The Port Authority of New York and New Jersey established policies and procedures for the former World Trade Center facilities, and the Port Authority management understands the responsibilities that fall to landlords and tenants to comply with the Commission's Rules regarding human exposure to radiofrequency energy.

As a lessee, WABC will be subject to the Port Authority's Freedom Tower Building RF Safety Program. Data concerning the proposed WABC-DT operation will be supplied for inclusion in the RF Safety Program for the Freedom Tower.

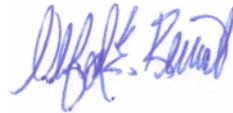
Conclusion

The proposed post-transition operation of WABC-DT from the proposed Freedom Tower Building meets all the Commission's requirements for a minor change to an existing station with the single exception of the increased interference to WNJB-DT, channel 8, New Brunswick, New Jersey, and with respect to this increase, a waiver of this single requirement is respectfully requested. When placed in the context of available transmission locations in New York City, the proposed characteristics of the Freedom Tower Building define it as a location that has a strong possibility to be well suited for television transmission.

WABC-DT, New York, NY
Post-Transition Operation
Construction Permit Application
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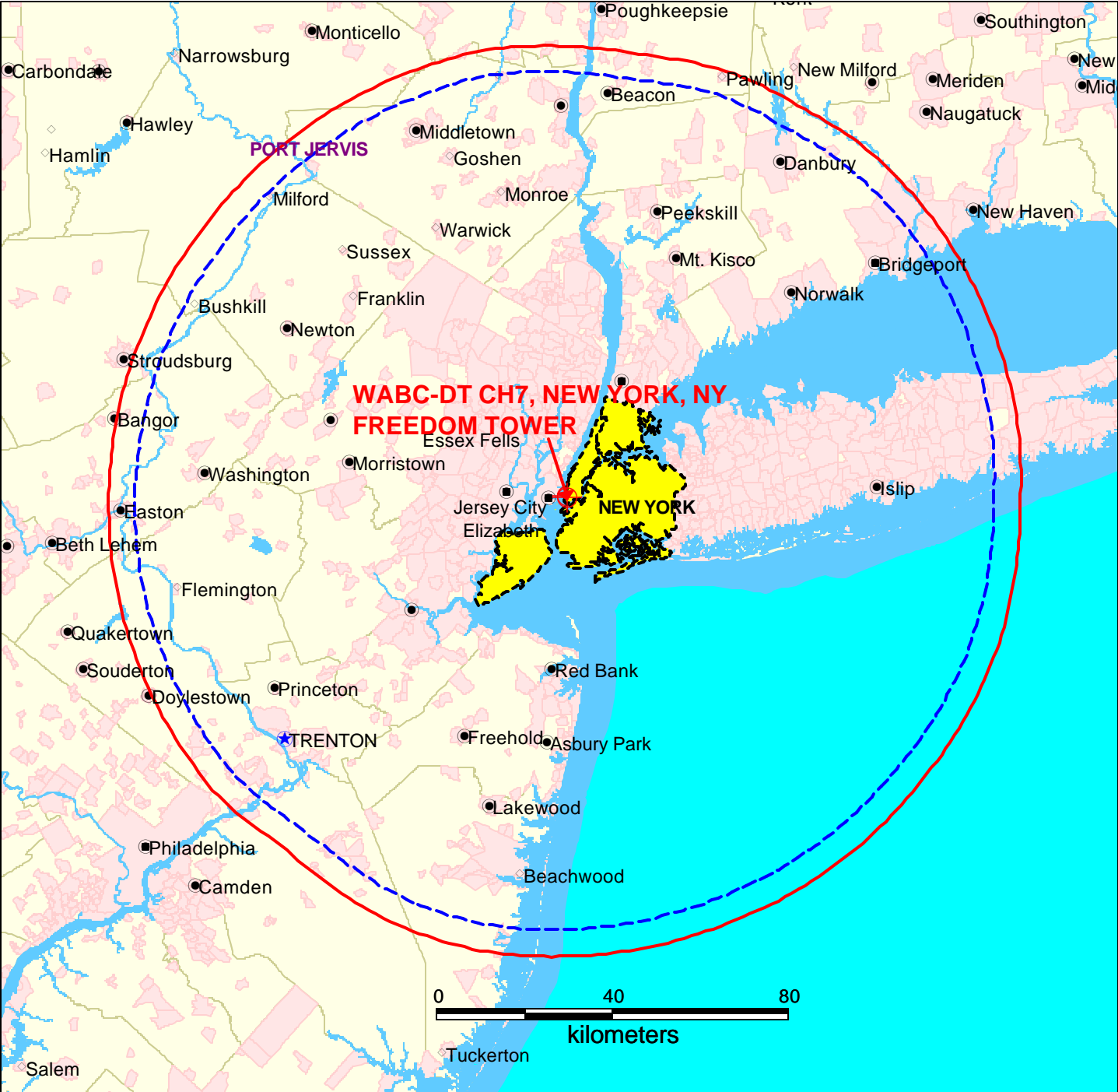
Certification

I certify that, on behalf of the American Broadcasting Companies, Inc., licensee of WABC-TV and WABC-DT, the information in this statement was prepared by me or under my immediate supervision. Zar B. Aung, EIT provided assistance with the preparation of the exhibits and interference calculations. On behalf of the 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: June 20, 2008



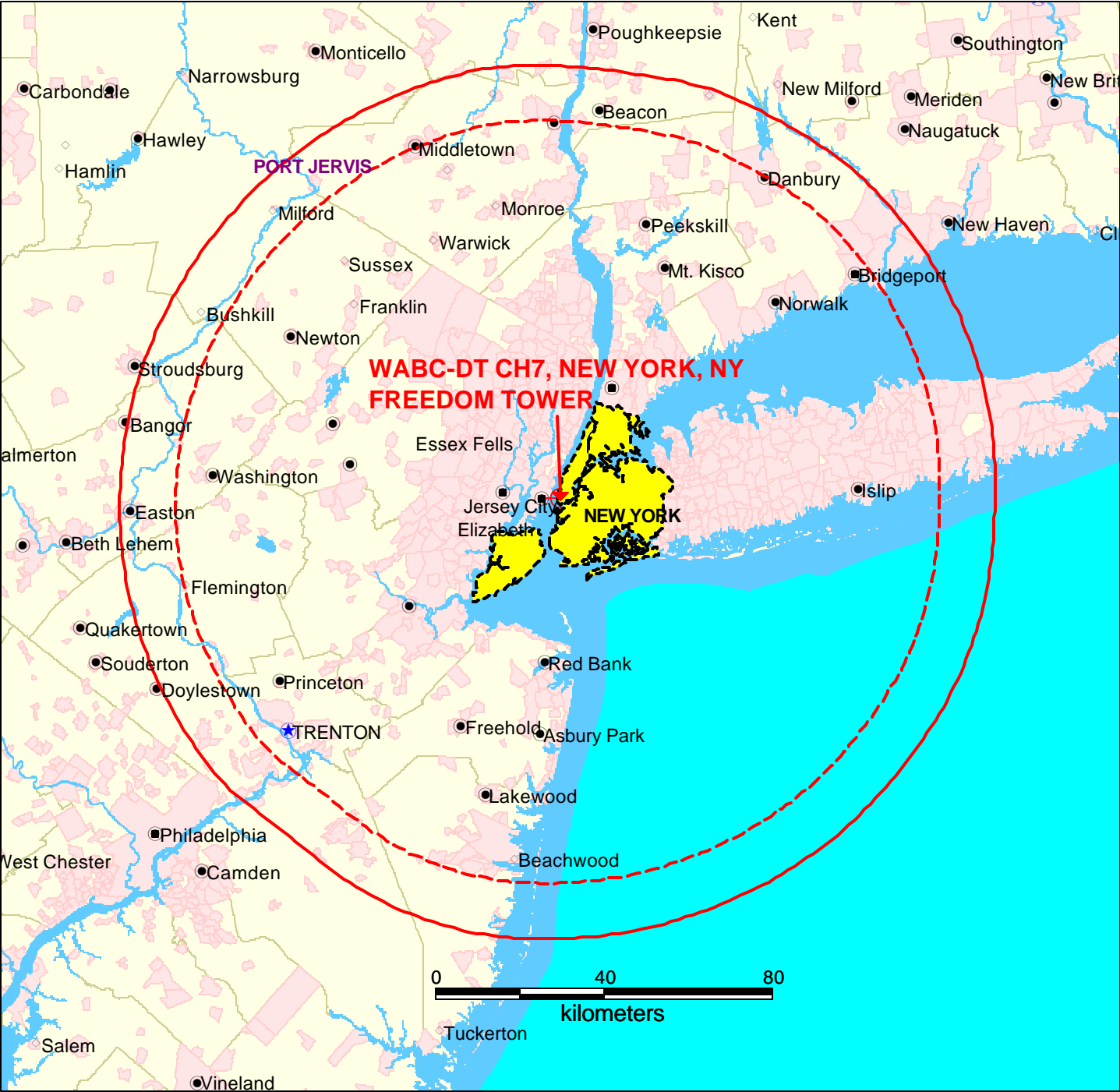
PREDICTED COVERAGE CONTOUR

WABC-DT CH. 7, NEW YORK, NY(Freedom Tower)
5.59 kW, 505 m HAAT, 518.2 m RCAMSL, NON D-ANT
Predicted Noise Limited Coverage Contour
F(50,90) 36 dBu

WABC-DT CH7, NEW YORK, NY (APPENDIX B)
3.2 kW, 491 m HAAT, 502 m RCAMSL, 74571 D-ANT
Predicted Noise Limited Coverage Contour
F(50,90) 36 dBu

JUNE 2008

CARL T. JONES
CORPORATION



PREDICTED COVERAGE CONTOUR

WABC-DT CH. 7, NEW YORK, NY(Freedom Tower)
5.59 kW, 505 m HAAT, 518.2 m RCAMSL, NON D-ANT

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

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

JUNE 2008

CARL T. JONES
CORPORATION

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-19-2008 Time: 20:27:37

Record Selected for Analysis

WABC-TV BDTV -WABC7FREET NEW YORK NY US
Channel 07 ERP 5.59 kW HAAT 505.0 m RCAMSL 518.2 m
Latitude 040-42-36 Longitude 0074-00-48
Status APP Zone 1 Border
Dir Antenna Make Model Beam tilt Y Ref Azimuth 0.0
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	5.590	500.0	101.9
45.0	5.590	516.9	103.1
90.0	5.590	495.8	101.5
135.0	5.590	508.2	102.5
180.0	5.590	511.0	102.7
225.0	5.590	505.3	102.3
270.0	5.590	510.0	102.6
315.0	5.590	505.0	102.2

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WABC-TV 07 NEW YORK NY BDTV WABC7FREET

and station

SHORT TO: WBNG-TV 07 BINGHAMTON NY BPCDT 19991029AFF
042-03-31 0075-57-06
Req. separation 244.6 Actual separation 220.7 Short 23.9 km

SHORT TO: WXXA-TV 07 ALBANY NY BPRM 20000718AAA
042-37-31 0074-00-38
Req. separation 244.6 Actual separation 212.7 Short 31.9 km

SHORT TO: WABC-TV 07 NEW YORK NY DTVPLN DTVPL1244
040-42-43 0074-00-49
Req. separation 244.6 Actual separation 0.2 Short 244.4 km

SHORT TO: WNJB 08 NEW BRUNSWICK NJ BMPEDT 20000425AAM
040-37-17 0074-30-15
Req. separation => 20.0 <= 110.0 Actual separation 42.6 Short 67.4(22.6) km

SHORT TO: WBNG-TV 07 BINGHAMTON NY BPCDT 19991029AFF
042-03-31 0075-57-06
Req. separation 244.6 Actual separation 220.7 Short 23.9 km

SHORT TO: WXXA-TV 07 ALBANY NY BPRM 20000718AAA
042-37-31 0074-00-38
Req. separation 244.6 Actual separation 212.7 Short 31.9 km

SHORT TO: WABC-TV 07 NEW YORK NY DTVPLN DTVPL1244
040-42-43 0074-00-49
Req. separation 244.6 Actual separation 0.2 Short 244.4 km

SHORT TO: WNJB 08 NEW BRUNSWICK NJ BMPEDT 20000425AAM
040-37-17 0074-30-15
Req. separation => 20.0 <= 110.0 Actual separation 42.6 Short 67.4(22.6) km

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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 =      397.9km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

*****
                          Start of Interference Analysis

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Channel	Proposed Station Call	City/State	ARN	
07	WABC-TV	NEW YORK NY	BDTV	WABC7FREET

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	220.4	CP	BPCDT	-19991029AFF
07	WXXA-TV	ALBANY NY	212.9	CP	BPRM	-20000718AAA
07	WWNY-TV	CARTHAGE NY	387.1	CP	BPCDT	-19991028ADN
07	WJLA-TV	WASHINGTON DC	326.7	CP	BPCDT	-19990706KE
07	WHDHTV	BOSTON MA	293.0	LIC	BMLCT	-940831KE
08	WICZ-TV	BINGHAMTON NY	219.8	LIC	BLCDT	-20060320AFC
08	WNJB	NEW BRUNSWICK NJ	42.5	CP MOD	BMPEDT	-20000425AAM
7	W07BV	WILKES-BARRE. ETC. PA	161.1	LIC	BLTVL	-19930202IE

A decorative horizontal bar consisting of a continuous row of small, light gray circles.

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	BPCDT	-19991029AFF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WXXA-TV	ALBANY NY	171.5	CP	BPRM	-20000718AAA
07	WWNY-TV	CARTHAGE NY	211.5	CP	BPCDT	-19991028ADN
07	WJLA-TV	WASHINGTON DC	358.4	CP	BPCDT	-19990706KE
07	WHDHTV	BOSTON MA	390.9	LIC	BMLCT	-940831KE
07	WABC-TV	NEW YORK NY	220.4	APP	BDTV	-WABC7FREET
07	WABC-TV	NEW YORK NY	220.3	PLN	DTVPLN	-DTVPL1244
07	WNGS	SPRINGVILLE NY	228.4	CP	BPCDT	-19991101AKN
08	WICZ-TV	BINGHAMTON NY	0.7	LIC	BLCDT	-20060320AFC
08	WNJB	NEW BRUNSWICK NJ	200.3	CP MOD	BMPEDT	-20000425AAM

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 7A NY BINGHAMTON BPCDT 19991029AFF CP
HAAT 342.0 m, ATV ERP 20.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1412087	32363.5
not affected by terrain losses	1020417	28080.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	18859	835.8
lost to ATV IX only	18859	835.8
lost to all IX	18859	835.8

Potential Interfering Stations Included in above Scenario 1

7A NY ALBANY	BPRM	20000718AAA	CP
7A NY CARTHAGE	BPCDT	19991028ADN	CP
7A DC WASHINGTON	BPCDT	19990706KE	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC

After Analysis

Results for: 7A NY BINGHAMTON BPCDT 19991029AFF CP
HAAT 342.0 m, ATV ERP 20.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1412087	32363.5
not affected by terrain losses	1020417	28080.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20145	895.8
lost to ATV IX only	20145	895.8
lost to all IX	20145	895.8

Potential Interfering Stations Included in above Scenario 1

7A NY ALBANY	BPRM	20000718AAA	CP
7A NY CARTHAGE	BPCDT	19991028ADN	CP
7A DC WASHINGTON	BPCDT	19990706KE	CP
8A NY BINGHAMTON	BLCDT	20060320AFC	LIC
7A NY NEW YORK	BDTV	WABC7FREET	APP

Percent Service lost without proposal:	0.0	to BPCDT	19991029AFF
Percent Service lost with proposal:	0.1	to BPCDT	19991029AFF

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WXXA-TV	ALBANY NY	BPRM	-20000718AAA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	171.5	CP	BPCDT	-19991029AFF
07	WWNY-TV	CARTHAGE NY	202.8	CP	BPCDT	-19991028ADN
07	WHDHTV	BOSTON MA	231.7	LIC	BMLCT	-940831KE
07	WABC-TV	NEW YORK NY	212.9	APP	BDTV	-WABC7FREET
07	WABC-TV	NEW YORK NY	212.7	PLN	DTVPLN	-DTVP1244
07	WNGS	SPRINGVILLE NY	376.9	CP	BPCDT	-19991101AKN
08	WICZ-TV	BINGHAMTON NY	171.0	LIC	BLCDT	-20060320AFC
08	WNJB	NEW BRUNSWICK NJ	226.5	CP MOD	BMPEDT	-20000425AAM

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 2
Before Analysis

Results for: 7A NY ALBANY BPRM 20000718AAA CP
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	17040	1502.9
lost to ATV IX only	17040	1502.9
lost to all IX	17040	1502.9

Potential Interferring Stations Included in above Scenario 1

7A NY BINGHAMTON	BPCDT	19991029AFF	CP
7A NY CARTHAGE	BPCDT	19991028ADN	CP
7A MA BOSTON	BMLCT	940831KE	LIC
7A NY BINGHAMTON	BPCDT	19991029AFF	CP
7A NY CARTHAGE	BPCDT	19991028ADN	CP
7A MA BOSTON	BMLCT	940831KE	LIC
7A NY NEW YORK	DTVPLN	DTVP1244	PLN

After Analysis

Results for: 7A NY ALBANY BPRM 20000718AAA CP
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	17554	1530.9
lost to ATV IX only	17554	1530.9
lost to all IX	17554	1530.9

Potential Interferring Stations Included in above Scenario 1

7A NY BINGHAMTON	BPCDT	19991029AFF	CP
7A NY CARTHAGE	BPCDT	19991028ADN	CP
7A MA BOSTON	BMLCT	940831KE	LIC
7A NY BINGHAMTON	BPCDT	19991029AFF	CP
7A NY CARTHAGE	BPCDT	19991028ADN	CP
7A MA BOSTON	BMLCT	940831KE	LIC
7A NY NEW YORK	BDTV	WABC7FREET	APP

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WWNY-TV	CARTHAGE NY	BPCDT	-19991028ADN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	211.5	CP	BPCDT	-19991029AFF
07	WXXA-TV	ALBANY NY	202.8	CP	BPRM	-20000718AAA
07	WHDHTV	BOSTON MA	409.0	LIC	BMLCT	-940831KE
07	WABC-TV	NEW YORK NY	387.1	APP	BDTV	-WABC7FREET
07	WABC-TV	NEW YORK NY	386.9	PLN	DTVPLN	-DTVP1244
07	WNGS	SPRINGVILLE NY	275.9	CP	BPCDT	-19991101AKN
08	WICZ-TV	BINGHAMTON NY	211.7	LIC	BLCDT	-20060320AFC

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WJLA-TV	WASHINGTON DC	BPCDT	-19990706KE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WHRE	VIRGINIA BEACH VA	243.4	LIC	BLCT	-20060329AGW
07	WBNG-TV	BINGHAMTON NY	358.4	CP	BPCDT	-19991029AFF
07	WTRF-TV	WHEELING WV	338.3	CP	BDTV	-0000
07	WABC-TV	NEW YORK NY	326.7	APP	BDTV	-WABC7FREET
07	WABC-TV	NEW YORK NY	326.8	PLN	DTVPLN	-DTVP1244
08	WWCP-TV	JOHNSTOWN PA	224.1	CP	BFRCT	-20050815ABA
08	WGAL	LANCASTER PA	126.8	LIC	BLCDT	-20010621ABF

Total scenarios = 1

Result key: 3
Scenario 1 Affected station 4
Before Analysis

Results for: 7A DC WASHINGTON BPCDT 19990706KE 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 415 16.0
lost to ATV IX only 415 16.0
lost to all IX 415 16.0

Potential Interferring Stations Included in above Scenario 1

7A VA VIRGINIA BEACH	BLCT	20060329AGW	LIC
7A NY BINGHAMTON	BPCDT	19991029AFF	CP
8A PA LANCASTER	BLCDDT	20010621ABF	LIC
7A NY NEW YORK	DTVPLN	DTVP1244	PLN

After Analysis

Results for: 7A DC WASHINGTON BPCDT 19990706KE 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 415 16.0
lost to ATV IX only 415 16.0
lost to all IX 415 16.0

Potential Interferring Stations Included in above Scenario 1

7A VA VIRGINIA BEACH	BLCT	20060329AGW	LIC
7A NY BINGHAMTON	BPCDT	19991029AFF	CP
8A PA LANCASTER	BLCDDT	20010621ABF	LIC
7A NY NEW YORK	BDTV	WABC7FREET	APP

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WHDHTV	BOSTON MA	BMLCT	-940831KE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	390.9	CP	BPCDT	-19991029AFF
07	WXXA-TV	ALBANY NY	231.7	CP	BPRM	-20000718AAA
07	WVII-TV	BANGOR ME	345.9	CP	BDTV	-0000
07	WWNY-TV	CARTHAGE NY	409.0	CP	BPCDT	-19991028ADN
07	WABC-TV	NEW YORK NY	293.0	APP	BDTV	-WABC7FREET
07	WABC-TV	NEW YORK NY	292.9	PLN	DTVPLN	-DTVP1244
08	WMTW-TV	POLAND SPRING ME	174.5	CP	BPCDT	-19991101AGK

Total scenarios = 1

Result key: 4
Scenario 1 Affected station 5
Before Analysis

Results for: 7A MA BOSTON BMLCT 940831KE LIC
HAAT 306.0 m, ATV ERP 15.4 kW
POPULATION AREA (sq km)
within Noise Limited Contour 7145292 28865.6
not affected by terrain losses 7045447 27333.4
lost to NTSC IX 0 0.0
lost to additional IX by ATV 9534 149.2
lost to ATV IX only 9534 149.2
lost to all IX 9534 149.2

Potential Interfering Stations Included in above Scenario 1

7A NY ALBANY	BPRM	20000718AAA	CP
7A ME BANGOR	BDTV	0000	CP
7A NY NEW YORK	DTVPLN	DTVP1244	PLN

After Analysis

Results for: 7A MA BOSTON BMLCT 940831KE LIC
HAAT 306.0 m, ATV ERP 15.4 kW
POPULATION AREA (sq km)
within Noise Limited Contour 7145292 28865.6
not affected by terrain losses 7045447 27333.4
lost to NTSC IX 0 0.0
lost to additional IX by ATV 10011 161.3
lost to ATV IX only 10011 161.3
lost to all IX 10011 161.3

Potential Interfering Stations Included in above Scenario 1

7A NY ALBANY	BPRM	20000718AAA	CP
7A ME BANGOR	BDTV	0000	CP
7A NY NEW YORK	BDTV	WABC7FREET	APP

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Analysis of Interference to Affected Station 6

Analysis of current record

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

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	0.7	CP	BPCDT	-19991029AFF
07	WXXA-TV	ALBANY NY	171.0	CP	BPRM	-20000718AAA
07	WWNY-TV	CARTHAGE NY	211.7	CP	BPCDT	-19991028ADN
07	WABC-TV	NEW YORK NY	219.8	APP	BDTV	-WABC7FREET
07	WABC-TV	NEW YORK NY	219.6	PLN	DTVPLN	-DTVP1244
08	WNJB	NEW BRUNSWICK NJ	199.7	CP MOD	BMPEDT	-20000425AAM
08	WWCP-TV	JOHNSTOWN PA	339.9	CP	BFRCTT	-20050815ABA
08	WGAL	LANCASTER PA	231.7	LIC	BLCDT	-20010621ABF
09	WBPH-TV	BETHLEHEM PA	171.1	CP MOD	BMPCDT	-20030522ADF

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.
08	WNJB	NEW BRUNSWICK NJ	BMPEDT	-20000425AAM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	200.3	CP	BPCDT	-19991029AFF
07	WXXA-TV	ALBANY NY	226.5	CP	BPRM	-20000718AAA
07	WABC-TV	NEW YORK NY	42.5	APP	BDTV	-WABC7FREET
07	WABC-TV	NEW YORK NY	42.6	PLN	DTVPLN	-DTVP1244
08	WICZ-TV	BINGHAMTON NY	199.7	LIC	BLCDT	-20060320AFC
08	WWCP-TV	JOHNSTOWN PA	396.3	CP	BFRCTT	-20050815ABA
08	WGAL	LANCASTER PA	190.7	LIC	BLCDT	-20010621ABF
09	WBPH-TV	BETHLEHEM PA	79.2	CP MOD	BMPCDT	-20030522ADF
09	WEDN	NORWICH CT	219.8	CP	BMPEDT	-20031008AAT

Total scenarios = 1

Result key: 5
Scenario 1 Affected station 7
Before Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20000425AAM CP

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	1837523	1687.2
lost to ATV IX only	1837523	1687.2
lost to all IX	1837523	1687.2

Potential Interfering Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BLCDDT	20010621ABF	LIC
9A PA BETHLEHEM	BMPCDDT	20030522ADF	CP
7A NY NEW YORK	DTVPLN	DTVP1244	PLN

After Analysis

Results for: 8A NJ NEW BRUNSWICK BMPEDT 20000425AAM CP

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	2820260	2198.9
lost to ATV IX only	2820260	2198.9
lost to all IX	2820260	2198.9

Potential Interfering Stations Included in above Scenario 1

8A NY BINGHAMTON	BLCDDT	20060320AFC	LIC
8A PA LANCASTER	BLCDDT	20010621ABF	LIC
9A PA BETHLEHEM	BMPCDDT	20030522ADF	CP
7A NY NEW YORK	BDTV	WABC7FREET	APP

Percent Service lost without proposal:	0.0	to BMPEDT	20000425AAM
Percent Service lost with proposal:	5.8	to BMPEDT	20000425AAM

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Analysis of Interference to Affected Station 8

Analysis of current record

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

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	96.2	CP	BPCDT	-19991029AFF
07	WXXA-TV	ALBANY NY	218.1	CP	BPRM	-20000718AAA
07	WWNY-TV	CARTHAGE NY	306.4	CP	BPCDT	-19991028ADN
07	WJLA-TV	WASHINGTON DC	271.9	CP	BPCDT	-19990706KE
07	WABC-TV	NEW YORK NY	161.1	APP	BDTV	-WABC7FREET
07	WABC-TV	NEW YORK NY	161.0	PLN	DTVPLN	-DTVP1244
07	WNGS	SPRINGVILLE NY	281.4	CP	BPCDT	-19991101AKN
08	WICZ-TV	BINGHAMTON NY	95.9	LIC	BLCDT	-20060320AFC
08	WNJB	NEW BRUNSWICK NJ	127.8	CP MOD	BMPEDT	-20000425AAM

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	BPCDT	-19991029AFF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WXXA-TV	ALBANY NY	171.5	CP	BPRM	-20000718AAA
07	WWNY-TV	CARTHAGE NY	211.5	CP	BPCDT	-19991028ADN
07	WJLA-TV	WASHINGTON DC	358.4	CP	BPCDT	-19990706KE
07	WHDHTV	BOSTON MA	390.9	LIC	BMLCT	-940831KE
07	WABC-TV	NEW YORK NY	220.4	APP	BDTV	-WABC7FREET
07	WABC-TV	NEW YORK NY	220.3	PLN	DTVPLN	-DTVP1244
07	WNGS	SPRINGVILLE NY	228.4	CP	BPCDT	-19991101AKN
08	WICZ-TV	BINGHAMTON NY	0.7	LIC	BLCDT	-20060320AFC
08	WNJB	NEW BRUNSWICK NJ	200.3	CP MOD	BMPEDT	-20000425AAM

Total scenarios = 1

Analysis of Interference to Affected Station 16

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
07	WABC-TV	NEW YORK NY	DTVPLN	-DTVP1244

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
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Results for: 7A NY NEW YORK DTVPLN DTVP1244 PLN

HAAT 491.0 m, ATV ERP 3.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19737462	28037.4
not affected by terrain losses	19491035	26696.0
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	BDTV	-WABC7FREET

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WBNG-TV	BINGHAMTON NY	220.4	CP	BPCDT	-19991029AFF
07	WXXA-TV	ALBANY NY	212.9	CP	BPRM	-20000718AAA
07	WVNY-TV	CARTHAGE NY	387.1	CP	BPCDT	-19991028ADN
07	WJLA-TV	WASHINGTON DC	326.7	CP	BPCDT	-19990706KE
07	WHDHTV	BOSTON MA	293.0	LIC	BMLCT	-940831KE
08	WICZ-TV	BINGHAMTON NY	219.8	LIC	BLCDD	-20060320AFC
08	WNJB	NEW BRUNSWICK NJ	42.5	CP MOD	BMPEDT	-20000425AAM

Total scenarios = 1

Result key: 11
Scenario 1 Affected station 16
Before Analysis

Results for: 7A NY NEW YORK BDTV WABC7FREET APP
HAAT 505.0 m, ATV ERP 5.6 kW
POPULATION AREA (sq km)
within Noise Limited Contour 20436840 32922.6
not affected by terrain losses 20042892 30902.4
lost to NTSC IX 0 0.0
lost to additional IX by ATV 173697 950.2
lost to ATV IX only 173697 950.2
lost to all IX 173697 950.2

Potential Interfering Stations Included in above Scenario 1

7A NY BINGHAMTON	BPCDT	19991029AFF	CP
7A NY ALBANY	BPRM	20000718AAA	CP
7A DC WASHINGTON	BPCDT	19990706KE	CP
7A MA BOSTON	BMLCT	940831KE	LIC
8A NJ NEW BRUNSWICK	BMPEDT	20000425AAM	CP

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