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

ENGINEERING EXHIBIT

Application for Digital Television Station Construction Permit

prepared for

CBS Broadcasting Inc.
WCBS-TV New York, NY
Facility ID 9610
Ch. 33 426 kW 397 m

CBS Broadcasting Inc. ("CBS") is the licensee of television station WCBS-TV, pre-transition digital Channel 56 and analog Channel 2, New York, NY. A Construction Permit ("CP", BPCDT-20080523AEI) authorizes WCBS-TV to operate post-transition as digital on Channel 33 at 284 kW effective radiated power ("ERP") at an antenna height above average terrain ("HAAT") of 397 meters. A license application is pending (BLCDT-20090612AFN) to cover construction of the WCBS-TV digital Channel 33 facility, located at the Empire State Building. *CBS* herein seeks a new CP to increase the ERP to 426 kW while maintaining the authorized antenna location and height.

WCBS-TV's Appendix B facilities specify an antenna location at the former site of the World Trade Center, at which the Freedom Tower is being erected. *CBS* and other licensees of New York City television stations have been advised by Media Bureau staff that they should proceed with normal licensing procedures with respect to their interim facilities at the Empire State Building, while filing applications for minor modification of construction permit to "maximize" their facilities from the Freedom Tower site. In accordance with this recommended procedure, *CBS* has filed a "maximization" application (BMPCDT-20080619AAZ) to authorize operation at the "Freedom Tower" location, which is 4.7 km distant from the current site at Empire.

For avoidance of doubt, CBS specifically requests that the instant application not cause the Freedom Tower application BMPCDT-20080619AAZ to be modified or superseded. The purpose of the instant application is to secure an increase in power from the existing Empire site that can be

implemented shortly after grant and licensed in accordance with the recommended staff procedures described above.

No change to the currently authorized antenna is proposed. The WCBS-TV antenna is a Dielectric custom model ESBTUF8O and is shared with several other post-transition UHF digital stations. The antenna is side-mounted on the tower structure atop the Empire State Building. The antenna system utilizes panel radiators oriented in four different azimuths and is situated on the northwest side of the antenna support structure. In order to reduce the azimuthal pattern distortion produced by side-mounting a nondirectional antenna on a large supporting structure, the stack of panels facing the southeast direction (one of four overall panel stacks) is installed on the southeast side of the structure and at a lower elevation (310 meters AGL). The result is a custom antenna configuration that maintains a nondirectional pattern as best as possible given the unique support structure circumstances at the Empire State Building.

Elliptical polarization will continue to be employed, as the southeast panel stack has a vertically-polarized component. The three upper panel stacks are horizontally polarized only. The maximum horizontally polarized ERP is 426 kW, and the maximum vertically polarized ERP is 213 kW (50 percent). The vertically polarized component does not exceed the horizontally polarized component at any azimuth.

The Empire State Building's FCC Antenna Structure Registration number is 1007048. No change to the overall structure height is required to carry out this proposal.

A map is supplied as **Figure 1,** which depicts the standard predicted coverage contours. This map includes the boundaries of New York, WCBS-TV's principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 48 dBμ contour.

The proposed WCBS-TV facility's predicted service population provides a 98.7 percent match of the Appendix B facility, as detailed in the following table.

Post-Transition Population Summary

Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	20,243,429	20,111,863
Not affected by terrain losses	19,884,703	19,790,062
Lost to all interference	666,759	825,780
Net DTV Service	**19,217,944**	**18,964,282**
Match of Appendix B	---	**98.68%**

A detailed interference study per OET Bulletin 69[1] shows that the proposal complies with the 0.5 percent limit of new interference caused to the Appendix B facilities and authorizations of pertinent nearby stations, except for WPSG(DT) (Ch. 32, Philadelphia, PA), WFSB(DT) (Ch. 33 Hartford, CT), and WCAU(DT) (Ch. 34, Philadelphia, PA).

WPSG would receive 0.62 percent interference to its Construction Permit facility (BPCDT-20080616ABE). WPSG is under common ownership with WCBS-TV. An interference consent statement (attached separately) covers this amount of interference. The proposal causes 0.06 percent interference to the WPSG licensed facility, which does not exceed the 0.5 percent limit.

WFSB would receive 3.27 percent interference to its licensed facility (BLCDT-20041029AIL) and 2.41 percent interference to its Construction Permit (BPCDT-20080619AFT). The licensee of WFSB has agreed to accept this interference. A copy of a consent statement from WFSB is attached separately.

WCAU's Appendix B facility would receive 0.59 percent interference, however only 0.06 percent interference would be caused to the WCAU maximized Construction Permit facility (BPCDT-20080620AKG). A license application (BLCDT-20090914AAX) is pending to cover the WCAU construction permit. Thus the proposal complies with FCC requirements,[2] as it has been over one year since the contour extension (maximization) filing freeze has been lifted, WCAU has

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

[2] ¶155 and 162, *"Third Periodic Review of the Commission's Rules and Policies Affecting the Conversion to*

been granted an expansion Construction Permit, and the proposal does not cause impermissible interference to the WCAU authorized facility.

The interference study output report is provided as **Table 1**. Protection requirements towards authorized Class A stations are also satisfied.

The nearest FCC monitoring station is 299 km distant at Laurel, MD. This exceeds the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with "quiet" zones specified in §73.1030(a) and (b). There are no AM stations within 3.2 kilometers of the site, based on information contained within the Commission's database. The site location is within the Canadian coordination zone (396 km to the Canada border), thus further international coordination may be necessary beyond that to establish Appendix B parameters.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposal will involve use of an existing transmitting antenna at an established multi-user site. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. No tower work or change in structure height is proposed. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number. 65. Based on OET-65 equation (10), and considering the southeast antenna stack's height and 20 percent antenna relative field in downward elevations (pattern data shows less than 20 percent relative field at angles 10 to 90 degrees below the antenna), the calculated signal density near the building at two meters above ground level attributable to the proposed facility is 6.0 $\mu W/cm^2$, which is 1.5 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent

---

Digital Television," Report and Order, MB Docket 07-91, FCC 07-228, released December 31, 2007.

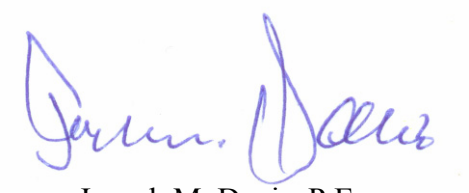
threshold limit described in §1.1307(b)(3) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

Access to the Empire State Building rooftop, antenna support structure, and any areas within the building that may exceed exposure limits is strictly controlled by the building owner. *CBS* will continue to participate in the building's RF exposure safety program along with the other broadcasters and FCC licensees that utilize the Empire State Building as a transmission site. As necessary, based on calculations or actual measurements considering all emitters, exposure abatement procedures will be confirmed and amended as necessary. The RF safety program will continue to be employed protecting maintenance and installation workers from excessive exposure when work must be performed in locations where high RF levels may be present. Such areas are placed under strict restricted access and properly identified.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. The applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, mast or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

Certification

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direction, and that they are true and correct to the best of his knowledge and belief.



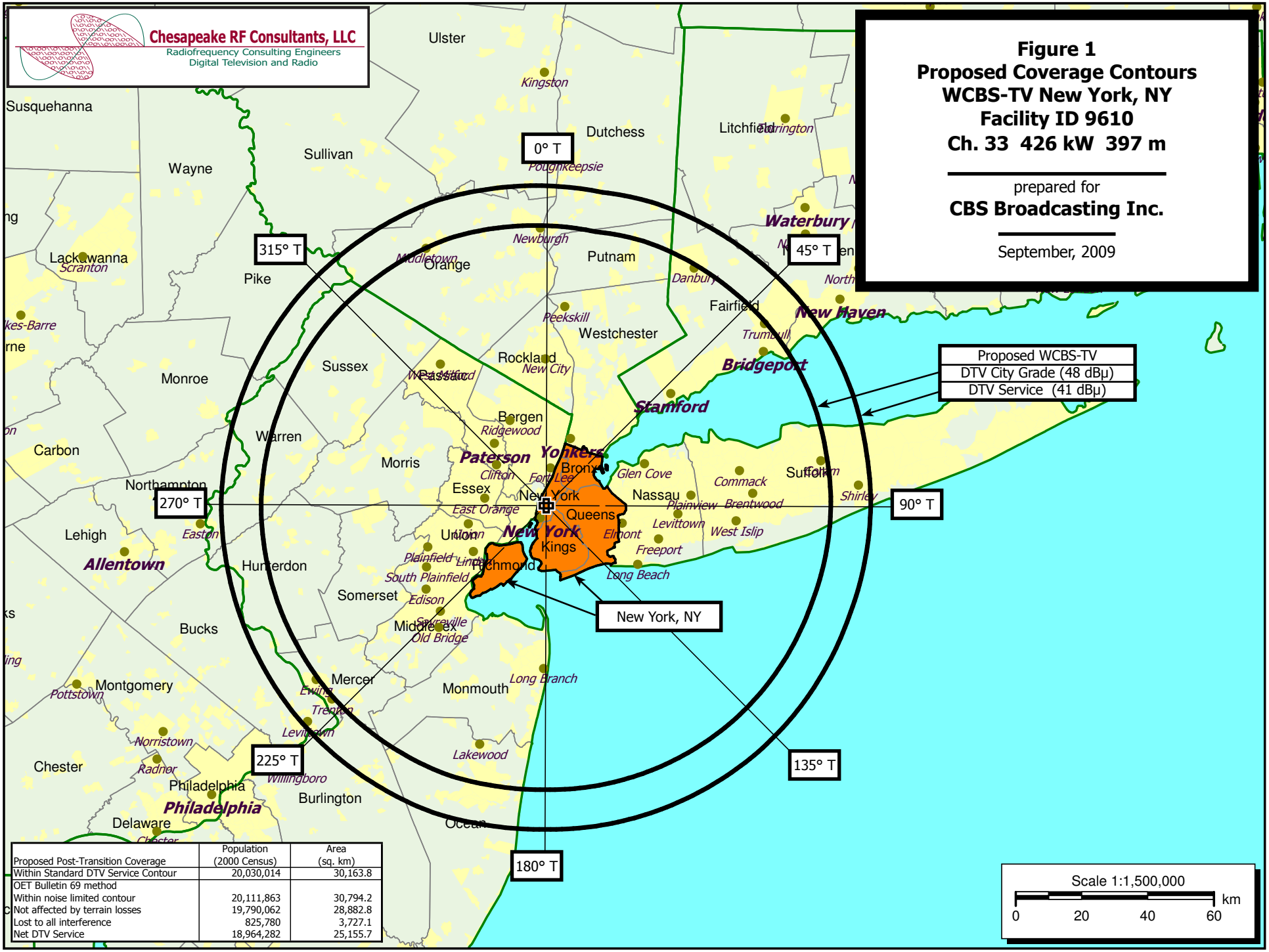
Joseph M. Davis, P.E.
September 24, 2009

Chesapeake RF Consultants, LLC
11993 Kahns Road
Manassas, VA 20112
703-650-9600

List of Attachments

Figure 1	Proposed Coverage Contours
Table 1	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload

This material was entered September 24, 2009 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's name and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.



Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	20,030,014	30,163.8
OET Bulletin 69 method		
Within noise limited contour	20,111,863	30,794.2
Not affected by terrain losses	19,790,062	28,882.8
Lost to all interference	825,780	3,727.1
Net DTV Service	18,964,282	25,155.7

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 1 of 24)

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

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-18-2009 Time: 13:13:01

Record Selected for Analysis

WCBS-DT USERRECORD-01 NEW YORK NY US
Channel 33 ERP 426. kW HAAT 398. m RCAMSL 00411 m
Latitude 040-44-54 Longitude 0073-59-10
Status APP Zone 1 Border
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	426.000	375.4	96.5
45.0	426.000	401.7	98.4
90.0	426.000	398.6	98.2
135.0	426.000	400.0	98.3
180.0	426.000	396.1	98.0
225.0	426.000	411.0	99.0
270.0	426.000	400.3	98.3
315.0	426.000	397.3	98.1

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
Distance to border = 395.7km

Proposed facility is beyond the Mexican coordination distance

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 2 of 24)

Proposed station is OK toward AM broadcast stations

****

Start of Interference Analysis

Proposed Station

Channel	Call	City/State	ARN
33	WCBS-DT	NEW YORK NY	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
25	W25AW	TRENTON NJ	83.1	LIC	BLTTA	-20030512ABW
32	WPSG	PHILADELPHIA PA	131.8	LIC	BLCDT	-20021025AAS
32	WPSG	PHILADELPHIA PA	131.8	PLN	DTVPLN	-DTVP1190
32	WPSG	PHILADELPHIA PA	131.8	CP	BPCDT	-20080616ABE
32	WQPX-TV	SCRANTON PA	164.5	LIC	BLCDT	-20060629AFR
32	WQPX	SCRANTON PA	164.5	PLN	DTVPLN	-DTVP1191
33	WFSB	HARTFORD CT	150.8	LIC	BLCDT	-20041029AIL
33	WFSB	HARTFORD CT	150.8	PLN	DTVPLN	-DTVP1210
33	WFSB	HARTFORD CT	150.8	CP	BPCDT	-20080619AFT
33	WHUT-TV	WASHINGTON DC	331.1	CP	BPEDT	-20080619AGL
33	WHUT-TV	WASHINGTON DC	331.1	PLN	DTVPLN	-DTVP1211
33	WPXG-TV	CONCORD NH	349.1	LIC	BLCDT	-20031014AEP
33	WPXG	CONCORD NH	349.1	PLN	DTVPLN	-DTVP1220
33	WPXG-TV	CONCORD NH	349.1	APP	BPCDT	-20080619AJF
34	WIVT	BINGHAMTON NY	218.9	CP	BPCDT	-20080314ACR
34	WIVT	BINGHAMTON NY	218.9	PLN	DTVPLN	-DTVP1262
34	WMHT	SCHENECTADY NY	208.6	LIC	BLEDT	-20040108ALV
34	WMHT	SCHENECTADY NY	208.6	PLN	DTVPLN	-DTVP1263
34	WCAU	PHILADELPHIA PA	131.8	CP	BPCDT	-20080620AKG
34	WCAU	PHILADELPHIA PA	131.8	PLN	DTVPLN	-DTVP1267

%%%%%%%%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
25	W25AW	TRENTON NJ	BLTTA	-20030512ABW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WPHL-TV	PHILADELPHIA PA	50.1	CP MOD	BMPCDT	-20080619ALB
17	WPHL-TV	PHILADELPHIA PA	49.8	PLN	DTVPLN	-DTVP0613
18	WMBC-TV	NEWTON NJ	81.3	CP	BPCDT	-20080620ABX
18	WMBC-TV	NEWTON NJ	81.3	PLN	DTVPLN	-DTVP0643
18	WMBC-TV	NEWTON NJ	81.3	LIC	BLCDT	-20060803AMO
21	WLIW	GARDEN CITY NY	122.5	CP	BPEDT	-20080317AAQ
21	WLIW	GARDEN CITY NY	122.5	PLN	DTVPLN	-DTVP0769
21	WLIW	GARDEN CITY NY	122.5	APP	BMPEDT	-20080620AID
22	WNJS	CAMDEN NJ	58.7	CP	BPEDT	-20080620ALH
22	WNJS	CAMDEN NJ	58.7	PLN	DTVPLN	-DTVP0812
22	WNJS	CAMDEN NJ	58.7	LIC	BLEDT	-20070611AAY
24	WNYE-TV	NEW YORK NY	83.6	CP MOD	BMPEDT	-20070124AAX
24	WNYE-TV	NEW YORK NY	83.6	PLN	DTVPLN	-DTVP0891
24	WNYE-TV	NEW YORK NY	83.6	LIC	BLEDT	-20071228ABM
25	W25BB	PITTSTOWN NJ	35.8	LIC	BLTT	-19930325ID

25	WCNY-TV	SYRACUSE NY	321.8	LIC	BMLEDT	-20040916ABJ
25	WCNY-TV	SYRACUSE NY	321.8	PLN	DTVPLN	-DTVP0928
25	WTVE	READING PA	101.1	LIC	BLCDT	-20040323ATZ
25	WTVE	READING PA	83.6	PLN	DTVPLN	-DTVP0930
25	WTVE	READING PA	49.9	CP MOD	BMPCDT	-20081027ACR
25	WTVR-TV	RICHMOND VA	393.3	LIC	BLCDT	-20021204ABA
25	WTVR-TV	RICHMOND VA	393.3	PLN	DTVPLN	-DTVP0934
26	KYW-TV	PHILADELPHIA PA	50.3	CP	BPCDT	-20080620ABO
26	KYW-TV	PHILADELPHIA PA	50.3	PLN	DTVPLN	-DTVP0968
27	WGTW-TV	BURLINGTON NJ	49.8	LIC	BLCDT	-20060105AAR
27	WGTW-TV	BURLINGTON NJ	49.8	PLN	DTVPLN	-DTVP1001
28	WNBC	NEW YORK NY	78.7	APP	BPCDT	-20080620ADL
28	WNBC	NEW YORK NY	78.7	PLN	DTVPLN	-DTVP1042
28	WNBC	NEW YORK NY	83.1	CP MOD	BMPCDT	-20080314ACO
28	WNBC	NEW YORK NY	83.1	STA	BDSTA	-20041220ADE
29	WUVP-DT	VINELAND NJ	49.8	CP MOD	BMPCDT	-20081110ADR
29	WUVP-TV	VINELAND NJ	49.8	PLN	DTVPLN	-DTVP1075
29	WFME-TV	WEST MILFORD NJ	71.6	LIC	BLEDT	-20040712ACP
29	WFME-TV	WEST MILFORD NJ	71.6	PLN	DTVPLN	-DTVP1076
32	WPSG	PHILADELPHIA PA	49.8	LIC	BLCDT	-20021025AAS
32	WPSG	PHILADELPHIA PA	49.8	PLN	DTVPLN	-DTVP1190
32	WPSG	PHILADELPHIA PA	49.8	CP	BPCDT	-20080616ABE
33	WCBS-TV	NEW YORK NY	78.7	PLN	DTVPLN	-DTVP1222
39	WLVT-TV	ALLENTOWN PA	70.8	CP MOD	BMPEDT	-20080618AAL
39	WLVT-TV	ALLENTOWN PA	70.5	PLN	DTVPLN	-DTVP1410
40	WXTV-DT	PATERSON NJ	83.1	LIC	BLCDT	-20050214AGS
40	WXTV	PATERSON NJ	83.1	PLN	DTVPLN	-DTVP1443
33	WCBS-DT	NEW YORK NY	83.1	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
32	WPSG	PHILADELPHIA PA	BLCDT -20021025AAS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
31	WPPX-TV	WILMINGTON DE	0.0	LIC	BLCDT -20031203AFL
31	WPPX	WILMINGTON DE	0.0	PLN	DTVPLN -DTVP1128
31	WPPX-TV	WILMINGTON DE	0.0	APP	BPCDT -20080620AMP
31	WPXN-TV	NEW YORK NY	131.8	CP MOD	BMPCDT -20080926ACT
31	WPXN-TV	NEW YORK NY	127.6	PLN	DTVPLN -DTVP1150
31	WPXN-TV	NEW YORK NY	127.6	APP	BMPCDT -20080620ALZ
31	WSWB	SCRANTON PA	160.4	LIC	BLCDT -20060721ABH
31	WSWB	SCRANTON PA	160.4	PLN	DTVPLN -DTVP1153
31	WSWB-DR	SCRANTON PA	160.4	APP	BPRM -20080619ALI
32	WBPX	BOSTON MA	419.6	PLN	DTVPLN -DTVP1180
32	WBPX-TV	BOSTON MA	419.6	LIC	BLCDT -20040723ACG
32	WBPX-TV	BOSTON MA	419.6	APP	BPCDT -20080620ACX
32	WTAJ-TV	ALTOONA PA	277.9	LIC	BLCDT -20051018ACE
32	WTAJ-TV	ALTOONA PA	277.9	PLN	DTVPLN -DTVP1189
32	WQPX-TV	SCRANTON PA	160.3	LIC	BLCDT -20060629AFR
32	WQPX	SCRANTON PA	160.3	PLN	DTVPLN -DTVP1191
32	WVIR-TV	CHARLOTTESVILLE VA	361.7	LIC	BLCDT -20040908AAE

32	WVIR-TV	CHARLOTTESVILLE VA	361.7	PLN	DTVPLN	-DTVP1199
33	WHUT-TV	WASHINGTON DC	199.3	CP	BPEDT	-20080619AGL
33	WHUT-TV	WASHINGTON DC	199.3	PLN	DTVPLN	-DTVP1211
33	WCBS-TV	NEW YORK NY	127.6	PLN	DTVPLN	-DTVP1222
33	WCBS-DT	NEW YORK NY	131.8	APP	USERRECORD-01	

Total scenarios = 24

Result key: 17
Scenario 17 Affected station 2
Before Analysis

Results for: 32A PA PHILADELPHIA BLCDT 20021025AAS LIC
HAAT 400.0 m, ATV ERP 250.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	8509480	24022.7
not affected by terrain losses	8152989	23215.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	292738	702.5
lost to ATV IX only	292738	702.5
lost to all IX	292738	702.5

Potential Interfering Stations Included in above Scenario 17

31A NY NEW YORK	BMPCDT	20080620ALZ	APP
32A PA ALTOONA	BLCDT	20051018ACE	LIC
32A PA SCRANTON	BLCDT	20060629AFR	LIC
32A VA CHARLOTTESVILLE	BLCDT	20040908AAE	LIC
33A NY NEW YORK	DTVPLN	DTVP1222	PLN

After Analysis

Results for: 32A PA PHILADELPHIA BLCDT 20021025AAS LIC
HAAT 400.0 m, ATV ERP 250.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	8509480	24022.7
not affected by terrain losses	8152989	23215.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	297538	662.1
lost to ATV IX only	297538	662.1
lost to all IX	297538	662.1

Potential Interfering Stations Included in above Scenario 17

31A NY NEW YORK	BMPCDT	20080620ALZ	APP
32A PA ALTOONA	BLCDT	20051018ACE	LIC
32A PA SCRANTON	BLCDT	20060629AFR	LIC
32A VA CHARLOTTESVILLE	BLCDT	20040908AAE	LIC
33A NY NEW YORK	USERRECORD01		APP

Percent new IX = 0.0611%

Worst case new IX 0.0611% Scenario 17

##

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 24)

```
   32      WPSG       PHILADELPHIA PA           DTVPLN    -DTVP1190

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 31   WPPX-TV  WILMINGTON DE              0.0  LIC    BLCDT     -20031203AFL
 31   WPPX     WILMINGTON DE              0.0  PLN    DTVPLN    -DTVP1128
 31   WPPX-TV  WILMINGTON DE              0.0  APP    BPCDT     -20080620AMP
 31   WPXN-TV  NEW YORK NY              131.8  CP MOD BMPCDT    -20080926ACT
 31   WPXN-TV  NEW YORK NY              127.6  PLN    DTVPLN    -DTVP1150
 31   WPXN-TV  NEW YORK NY              127.6  APP    BMPCDT    -20080620ALZ
 31   WSWB     SCRANTON PA              160.4  LIC    BLCDT     -20060721ABH
 31   WSWB     SCRANTON PA              160.4  PLN    DTVPLN    -DTVP1153
 31   WSWB-DR  SCRANTON PA              160.4  APP    BPRM      -20080619ALI
 32   WBPX     BOSTON MA                419.6  PLN    DTVPLN    -DTVP1180
 32   WBPX-TV  BOSTON MA                419.6  LIC    BLCDT     -20040723ACG
 32   WBPX-TV  BOSTON MA                419.6  APP    BPCDT     -20080620ACX
 32   WTAJ-TV  ALTOONA PA               277.9  LIC    BLCDT     -20051018ACE
 32   WTAJ-TV  ALTOONA PA               277.9  PLN    DTVPLN    -DTVP1189
 32   WQPX-TV  SCRANTON PA              160.3  LIC    BLCDT     -20060629AFR
 32   WQPX     SCRANTON PA              160.3  PLN    DTVPLN    -DTVP1191
 32   WVIR-TV  CHARLOTTESVILLE VA       361.7  LIC    BLCDT     -20040908AAE
 32   WVIR-TV  CHARLOTTESVILLE VA       361.7  PLN    DTVPLN    -DTVP1199
 33   WHUT-TV  WASHINGTON DC            199.3  CP     BPEDT     -20080619AGL
 33   WHUT-TV  WASHINGTON DC            199.3  PLN    DTVPLN    -DTVP1211
 33   WCBS-TV  NEW YORK NY              127.6  PLN    DTVPLN    -DTVP1222
 33   WCBS-DT  NEW YORK NY              131.8  APP    USERRECORD-01

 Total scenarios =   24

Result key:       41
Scenario       17  Affected station        3
Before Analysis

Results for: 32A PA PHILADELPHIA         DTVPLN    DTVP1190     PLN
   HAAT  400.0 m, ATV ERP  250.0 kW
                              POPULATION   AREA (sq km)
   within Noise Limited Contour     8509480      24022.7
   not affected by terrain losses   8152989      23215.2
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      292738        702.5
   lost to ATV IX only               292738        702.5
   lost to all IX                    292738        702.5

 Potential Interfering Stations Included in above Scenario    17

31A NY NEW YORK             BMPCDT    20080620ALZ  APP
32A PA ALTOONA              BLCDT     20051018ACE  LIC
32A PA SCRANTON             BLCDT     20060629AFR  LIC
32A VA CHARLOTTESVILLE      BLCDT     20040908AAE  LIC
33A NY NEW YORK             DTVPLN    DTVP1222     PLN

After Analysis

Results for: 32A PA PHILADELPHIA         DTVPLN    DTVP1190     PLN
   HAAT  400.0 m, ATV ERP  250.0 kW
                              POPULATION   AREA (sq km)
   within Noise Limited Contour     8509480      24022.7
   not affected by terrain losses   8152989      23215.2
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      297538        662.1
   lost to ATV IX only               297538        662.1
```

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 24)

```
   lost to all IX                    297538        662.1

 Potential Interfering Stations Included in above Scenario    17

31A NY NEW YORK             BMPCDT    20080620ALZ  APP
32A PA ALTOONA              BLCDT     20051018ACE  LIC
32A PA SCRANTON             BLCDT     20060629AFR  LIC
32A VA CHARLOTTESVILLE      BLCDT     20040908AAE  LIC
33A NY NEW YORK             USERRECORD01           APP

Percent new IX =    0.0611%

Worst case new IX    0.0611% Scenario     17

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


     Analysis of Interference to Affected Station   4


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   32      WPSG       PHILADELPHIA PA           BPCDT     -20080616ABE

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 31   WPPX-TV  WILMINGTON DE              0.0  LIC    BLCDT     -20031203AFL
 31   WPPX     WILMINGTON DE              0.0  PLN    DTVPLN    -DTVP1128
 31   WPPX-TV  WILMINGTON DE              0.0  APP    BPCDT     -20080620AMP
 31   WPXN-TV  NEW YORK NY              131.8  CP MOD BMPCDT    -20080926ACT
 31   WPXN-TV  NEW YORK NY              127.6  PLN    DTVPLN    -DTVP1150
 31   WPXN-TV  NEW YORK NY              127.6  APP    BMPCDT    -20080620ALZ
 31   WSWB     SCRANTON PA              160.4  LIC    BLCDT     -20060721ABH
 31   WSWB     SCRANTON PA              160.4  PLN    DTVPLN    -DTVP1153
 31   WSWB-DR  SCRANTON PA              160.4  APP    BPRM      -20080619ALI
 32   WBPX     BOSTON MA                419.6  PLN    DTVPLN    -DTVP1180
 32   WBPX-TV  BOSTON MA                419.6  LIC    BLCDT     -20040723ACG
 32   WBPX-TV  BOSTON MA                419.6  APP    BPCDT     -20080620ACX
 32   WTAJ-TV  ALTOONA PA               277.9  LIC    BLCDT     -20051018ACE
 32   WTAJ-TV  ALTOONA PA               277.9  PLN    DTVPLN    -DTVP1189
 32   WQPX-TV  SCRANTON PA              160.3  LIC    BLCDT     -20060629AFR
 32   WQPX     SCRANTON PA              160.3  PLN    DTVPLN    -DTVP1191
 32   WVIR-TV  CHARLOTTESVILLE VA       361.7  LIC    BLCDT     -20040908AAE
 32   WVIR-TV  CHARLOTTESVILLE VA       361.7  PLN    DTVPLN    -DTVP1199
 33   WHUT-TV  WASHINGTON DC            199.3  CP     BPEDT     -20080619AGL
 33   WHUT-TV  WASHINGTON DC            199.3  PLN    DTVPLN    -DTVP1211
 33   WCBS-TV  NEW YORK NY              127.6  PLN    DTVPLN    -DTVP1222
 33   WCBS-DT  NEW YORK NY              131.8  APP    USERRECORD-01

 Total scenarios =   24

Result key:       65
Scenario       17  Affected station        4
Before Analysis

Results for: 32A PA PHILADELPHIA         BPCDT     20080616ABE  CP
   HAAT  400.0 m, ATV ERP  800.0 kW
                              POPULATION   AREA (sq km)
   within Noise Limited Contour     9669508      29443.7
   not affected by terrain losses   9370058      28661.5
   lost to NTSC IX                        0          0.0
```

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 7 of 24)

```
   lost to additional IX by ATV      380158        981.7
   lost to ATV IX only               380158        981.7
   lost to all IX                    380158        981.7

 Potential Interfering Stations Included in above Scenario    17

31A NY NEW YORK             BMPCDT    20080620ALZ  APP
32A PA ALTOONA              BLCDT     20051018ACE  LIC
32A PA SCRANTON             BLCDT     20060629AFR  LIC
32A VA CHARLOTTESVILLE      BLCDT     20040908AAE  LIC
33A NY NEW YORK             DTVPLN    DTVP1222     PLN

After Analysis

Results for: 32A PA PHILADELPHIA         BPCDT     20080616ABE  CP
   HAAT  400.0 m, ATV ERP  800.0 kW
                              POPULATION   AREA (sq km)
   within Noise Limited Contour     9669508      29443.7
   not affected by terrain losses   9370058      28661.5
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      435788       1013.6
   lost to ATV IX only               435788       1013.6
   lost to all IX                    435788       1013.6

 Potential Interfering Stations Included in above Scenario    17

31A NY NEW YORK             BMPCDT    20080620ALZ  APP
32A PA ALTOONA              BLCDT     20051018ACE  LIC
32A PA SCRANTON             BLCDT     20060629AFR  LIC
32A VA CHARLOTTESVILLE      BLCDT     20040908AAE  LIC
33A NY NEW YORK             USERRECORD01           APP

 The following station failed the de minimis interference criteria.
 33D NY NEW YORK             USERRECORD01
 ERP  426.00 kW  HAAT   398.0 m  RCAMSL   411.0 m
 Antenna     none

 Due to interference to the following station and scenario:    17
 32D PA PHILADELPHIA         BPCDT     20080616ABE
 ERP  800.00 kW  HAAT   400.0 m  RCAMSL   465.0 m
 Antenna CDB 00000000087045

 Percent new interference from proposal:       0.6188 to BPCDT     20080616ABE

Worst case new IX    0.6188% Scenario     17

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


     Analysis of Interference to Affected Station   5


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   32      WQPX-TV    SCRANTON PA              BLCDT     -20060629AFR

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 31   WPPX-TV  WILMINGTON DE             160.3  LIC    BLCDT     -20031203AFL
 31   WPPX     WILMINGTON DE             160.3  PLN    DTVPLN    -DTVP1128
 31   WPPX-TV  WILMINGTON DE             160.3  APP    BPCDT     -20080620AMP
```

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 8 of 24)

```
 31   WPXN-TV  NEW YORK NY               164.5  CP MOD BMPCDT    -20080926ACT
 31   WPXN-TV  NEW YORK NY               164.5  PLN    DTVPLN    -DTVP1150
 31   WPXN-TV  NEW YORK NY               164.4  APP    BMPCDT    -20080620ALZ
 31   WSWB     SCRANTON PA                 0.3  LIC    BLCDT     -20060721ABH
 31   WSWB     SCRANTON PA                 0.2  PLN    DTVPLN    -DTVP1153
 31   WSWB-DR  SCRANTON PA                 0.3  APP    BPRM      -20080619ALI
 32   WBPX     BOSTON MA                 385.0  PLN    DTVPLN    -DTVP1180
 32   WBPX-TV  BOSTON MA                 385.0  LIC    BLCDT     -20040723ACG
 32   WBPX-TV  BOSTON MA                 385.3  APP    BPCDT     -20080620ACX
 32   WNLO     BUFFALO NY                317.1  LIC    BLCDT     -20070320AAV
 32   WNLO     BUFFALO NY                317.1  PLN    DTVPLN    -DTVP1188
 32   WTAJ-TV  ALTOONA PA                247.3  LIC    BLCDT     -20051018ACE
 32   WTAJ-TV  ALTOONA PA                247.3  PLN    DTVPLN    -DTVP1189
 32   WPSG     PHILADELPHIA PA           160.3  LIC    BLCDT     -20021025AAS
 32   WPSG     PHILADELPHIA PA           160.3  PLN    DTVPLN    -DTVP1190
 32   WPSG     PHILADELPHIA PA           160.3  CP     BPCDT     -20080616ABE
 32   WETK     BURLINGTON VT             417.2  APP    BPEDT     -20050118AKO
 32   WETK     BURLINGTON VT             417.2  PLN    DTVPLN    -DTVP1201
 32   WETK     BURLINGTON VT             417.2  LIC    BLEDT     -20061011ADW
 33   WCBS-TV  NEW YORK NY               164.5  PLN    DTVPLN    -DTVP1222
 33   WCBS-DT  NEW YORK NY               164.5  APP    USERRECORD-01
 Proposal causes no interference

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


     Analysis of Interference to Affected Station   6


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   32      WQPX       SCRANTON PA              DTVPLN    -DTVP1191

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 31   WPPX-TV  WILMINGTON DE             160.3  LIC    BLCDT     -20031203AFL
 31   WPPX     WILMINGTON DE             160.3  PLN    DTVPLN    -DTVP1128
 31   WPPX-TV  WILMINGTON DE             160.3  APP    BPCDT     -20080620AMP
 31   WPXN-TV  NEW YORK NY               164.5  CP MOD BMPCDT    -20080926ACT
 31   WPXN-TV  NEW YORK NY               164.5  PLN    DTVPLN    -DTVP1150
 31   WPXN-TV  NEW YORK NY               164.4  APP    BMPCDT    -20080620ALZ
 31   WSWB     SCRANTON PA                 0.3  LIC    BLCDT     -20060721ABH
 31   WSWB     SCRANTON PA                 0.2  PLN    DTVPLN    -DTVP1153
 31   WSWB-DR  SCRANTON PA                 0.3  APP    BPRM      -20080619ALI
 32   WBPX     BOSTON MA                 385.0  PLN    DTVPLN    -DTVP1180
 32   WBPX-TV  BOSTON MA                 385.0  LIC    BLCDT     -20040723ACG
 32   WBPX-TV  BOSTON MA                 385.3  APP    BPCDT     -20080620ACX
 32   WNLO     BUFFALO NY                317.1  LIC    BLCDT     -20070320AAV
 32   WNLO     BUFFALO NY                317.1  PLN    DTVPLN    -DTVP1188
 32   WTAJ-TV  ALTOONA PA                247.3  LIC    BLCDT     -20051018ACE
 32   WTAJ-TV  ALTOONA PA                247.3  PLN    DTVPLN    -DTVP1189
 32   WPSG     PHILADELPHIA PA           160.3  LIC    BLCDT     -20021025AAS
 32   WPSG     PHILADELPHIA PA           160.3  PLN    DTVPLN    -DTVP1190
 32   WPSG     PHILADELPHIA PA           160.3  CP     BPCDT     -20080616ABE
 32   WETK     BURLINGTON VT             417.2  APP    BPEDT     -20050118AKO
 32   WETK     BURLINGTON VT             417.2  PLN    DTVPLN    -DTVP1201
 32   WETK     BURLINGTON VT             417.2  LIC    BLEDT     -20061011ADW
 33   WCBS-TV  NEW YORK NY               164.5  PLN    DTVPLN    -DTVP1222
 33   WCBS-DT  NEW YORK NY               164.5  APP    USERRECORD-01
 Proposal causes no interference
```

```
########################################################################


     Analysis of Interference to Affected Station   7


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   33      WFSB       HARTFORD CT              BLCDT     -20041029AIL

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 32   WBPX     BOSTON MA               143.3  PLN    DTVPLN     -DTVP1180
 32   WBPX-TV  BOSTON MA               143.3  LIC    BLCDT      -20040723ACG
 32   WBPX-TV  BOSTON MA               143.5  APP    BPCDT      -20080620ACX
 33   WPXG-TV  CONCORD NH              198.4  LIC    BLCDT      -20031014AEP
 33   WPXG     CONCORD NH              198.4  PLN    DTVPLN     -DTVP1220
 33   WPXG-TV  CONCORD NH              198.4  APP    BPCDT      -20080619AJF
 33   WCBS-TV  NEW YORK NY             155.4  PLN    DTVPLN     -DTVP1222
 34   WNEU     MERRIMACK NH            167.4  LIC    BLCDT      -20021028AAH
 34   WNEU     MERRIMACK NH            167.4  PLN    DTVPLN     -DTVP1261
 34   WMHT     SCHENECTADY NY          137.0  LIC    BLEDT      -20040108ALV
 34   WMHT     SCHENECTADY NY          137.0  PLN    DTVPLN     -DTVP1263
 33   WCBS-DT  NEW YORK NY             150.8  APP    USERRECORD-01

 Total scenarios =   18


Result key:       73
Scenario        1  Affected station        7
Before Analysis

Results for: 33A CT HARTFORD            BLCDT     20041029AIL  LIC
   HAAT  289.0 m, ATV ERP 1000.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     4594265      27295.2
   not affected by terrain losses   4213689      24657.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      676441       3546.1
   lost to ATV IX only               676441       3546.1
   lost to all IX                    676441       3546.1

 Potential Interfering Stations Included in above Scenario     1

32A MA BOSTON               DTVPLN    DTVP1180     PLN
33A NH CONCORD              BLCDT     20031014AEP  LIC
34A NY SCHENECTADY          BLEDT     20040108ALV  LIC
33A NY NEW YORK             DTVPLN    DTVP1222     PLN

After Analysis

Results for: 33A CT HARTFORD            BLCDT     20041029AIL  LIC
   HAAT  289.0 m, ATV ERP 1000.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     4594265      27295.2
   not affected by terrain losses   4213689      24657.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      792154       4503.0
   lost to ATV IX only               792154       4503.0
   lost to all IX                    792154       4503.0
```



```
 Potential Interfering Stations Included in above Scenario     1

32A MA BOSTON               DTVPLN    DTVP1180     PLN
33A NH CONCORD              BLCDT     20031014AEP  LIC
34A NY SCHENECTADY          BLEDT     20040108ALV  LIC
33A NY NEW YORK             USERRECORD01           APP

 The following station failed the de minimis interference criteria.
 33D NY NEW YORK             USERRECORD01
 ERP  426.00 kW  HAAT   398.0 m  RCAMSL   411.0 m
 Antenna     none

 Due to interference to the following station and scenario:     1
 33D CT HARTFORD             BLCDT     20041029AIL
 ERP 1000.00 kW  HAAT   289.0 m  RCAMSL   375.0 m
 Antenna CDB 00000000044846

 Percent new interference from proposal:       3.2713 to BLCDT     20041029AIL

Worst case new IX    3.2713% Scenario      1

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


     Analysis of Interference to Affected Station   8


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   33      WFSB       HARTFORD CT              DTVPLN    -DTVP1210

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 32   WBPX     BOSTON MA               143.3  PLN    DTVPLN     -DTVP1180
 32   WBPX-TV  BOSTON MA               143.3  LIC    BLCDT      -20040723ACG
 32   WBPX-TV  BOSTON MA               143.5  APP    BPCDT      -20080620ACX
 33   WPXG-TV  CONCORD NH              198.4  LIC    BLCDT      -20031014AEP
 33   WPXG     CONCORD NH              198.4  PLN    DTVPLN     -DTVP1220
 33   WPXG-TV  CONCORD NH              198.4  APP    BPCDT      -20080619AJF
 33   WCBS-TV  NEW YORK NY             155.4  PLN    DTVPLN     -DTVP1222
 34   WNEU     MERRIMACK NH            167.4  LIC    BLCDT      -20021028AAH
 34   WNEU     MERRIMACK NH            167.4  PLN    DTVPLN     -DTVP1261
 34   WMHT     SCHENECTADY NY          137.0  LIC    BLEDT      -20040108ALV
 34   WMHT     SCHENECTADY NY          137.0  PLN    DTVPLN     -DTVP1263
 33   WCBS-DT  NEW YORK NY             150.8  APP    USERRECORD-01

 Total scenarios =   18


Result key:       91
Scenario        1  Affected station        8
Before Analysis

Results for: 33A CT HARTFORD            DTVPLN    DTVP1210     PLN
   HAAT  289.0 m, ATV ERP 1000.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     4594265      27295.2
   not affected by terrain losses   4213689      24657.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      676441       3546.1
   lost to ATV IX only               676441       3546.1
```

```
   lost to all IX                    676441       3546.1

 Potential Interfering Stations Included in above Scenario     1

32A MA BOSTON               DTVPLN    DTVP1180     PLN
33A NH CONCORD              BLCDT     20031014AEP  LIC
34A NY SCHENECTADY          BLEDT     20040108ALV  LIC
33A NY NEW YORK             DTVPLN    DTVP1222     PLN

After Analysis

Results for: 33A CT HARTFORD            DTVPLN    DTVP1210     PLN
   HAAT  289.0 m, ATV ERP 1000.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     4594265      27295.2
   not affected by terrain losses   4213689      24657.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      792154       4503.0
   lost to ATV IX only               792154       4503.0
   lost to all IX                    792154       4503.0

 Potential Interfering Stations Included in above Scenario     1

32A MA BOSTON               DTVPLN    DTVP1180     PLN
33A NH CONCORD              BLCDT     20031014AEP  LIC
34A NY SCHENECTADY          BLEDT     20040108ALV  LIC
33A NY NEW YORK             USERRECORD01           APP

 The following station failed the de minimis interference criteria.
 33D NY NEW YORK             USERRECORD01
 ERP  426.00 kW  HAAT   398.0 m  RCAMSL   411.0 m
 Antenna     none

 Due to interference to the following station and scenario:     1
 33D CT HARTFORD             DTVPLN    DTVP1210
 ERP 1000.00 kW  HAAT   289.0 m  RCAMSL   375.0 m
 Antenna CDB 00000000044846

 Percent new interference from proposal:       3.2713 to DTVPLN    DTVP1210

Worst case new IX    3.2713% Scenario      1

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


     Analysis of Interference to Affected Station   9


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   33      WFSB       HARTFORD CT              BPCDT     -20080619AFT

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 32   WBPX      BOSTON MA               143.3  PLN    DTVPLN    -DTVP1180
 32   WBPX-TV   BOSTON MA               143.3  LIC    BLCDT     -20040723ACG
 32   WBPX-TV   BOSTON MA               143.5  APP    BPCDT     -20080620ACX
 33   WPXG-TV   CONCORD NH              198.4  LIC    BLCDT     -20031014AEP
 33   WPXG      CONCORD NH              198.4  PLN    DTVPLN    -DTVP1220
 33   WPXG-TV   CONCORD NH              198.4  APP    BPCDT     -20080619AJF
 33   WCBS-TV   NEW YORK NY             155.4  PLN    DTVPLN    -DTVP1222
```



```
 34   WNEU      MERRIMACK NH            167.4  LIC    BLCDT     -20021028AAH
 34   WNEU      MERRIMACK NH            167.4  PLN    DTVPLN    -DTVP1261
 34   WMHT      SCHENECTADY NY          137.0  LIC    BLEDT     -20040108ALV
 34   WMHT      SCHENECTADY NY          137.0  PLN    DTVPLN    -DTVP1263
 33   WCBS-DT   NEW YORK NY             150.8  APP    USERRECORD-01

 Total scenarios =   18


Result key:      109
Scenario        1  Affected station        9
Before Analysis

Results for: 33A CT HARTFORD            BPCDT     20080619AFT  CP
   HAAT  289.0 m, ATV ERP 1000.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     4745845      28750.5
   not affected by terrain losses   4345545      25900.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      702517       3713.9
   lost to ATV IX only               702517       3713.9
   lost to all IX                    702517       3713.9

 Potential Interfering Stations Included in above Scenario     1

32A MA BOSTON               DTVPLN    DTVP1180     PLN
33A NH CONCORD              BLCDT     20031014AEP  LIC
34A NY SCHENECTADY          BLEDT     20040108ALV  LIC
33A NY NEW YORK             DTVPLN    DTVP1222     PLN

After Analysis

Results for: 33A CT HARTFORD            BPCDT     20080619AFT  CP
   HAAT  289.0 m, ATV ERP 1000.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     4745845      28750.5
   not affected by terrain losses   4345545      25900.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      790310       4453.5
   lost to ATV IX only               790310       4453.5
   lost to all IX                    790310       4453.5

 Potential Interfering Stations Included in above Scenario     1

32A MA BOSTON               DTVPLN    DTVP1180     PLN
33A NH CONCORD              BLCDT     20031014AEP  LIC
34A NY SCHENECTADY          BLEDT     20040108ALV  LIC
33A NY NEW YORK             USERRECORD01           APP

 The following station failed the de minimis interference criteria.
 33D NY NEW YORK             USERRECORD01
 ERP  426.00 kW  HAAT   398.0 m  RCAMSL   411.0 m
 Antenna     none

 Due to interference to the following station and scenario:     1
 33D CT HARTFORD             BPCDT     20080619AFT
 ERP 1000.00 kW  HAAT   289.0 m  RCAMSL   375.0 m
 Antenna CDB 99999999999999

 Percent new interference from proposal:       2.4099 to BPCDT     20080619AFT

Worst case new IX    2.4099% Scenario      1
```

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 13 of 24)

```
########################################################################

     Analysis of Interference to Affected Station  10


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   33      WHUT-TV    WASHINGTON DC             BPEDT     -20080619AGL

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 32   WTAJ-TV  ALTOONA PA               214.1  LIC    BLCDT     -20051018ACE
 32   WTAJ-TV  ALTOONA PA               214.1  PLN    DTVPLN    -DTVP1189
 32   WPSG     PHILADELPHIA PA          199.3  LIC    BLCDT     -20021025AAS
 32   WPSG     PHILADELPHIA PA          199.3  PLN    DTVPLN    -DTVP1190
 32   WPSG     PHILADELPHIA PA          199.3  CP     BPCDT     -20080616ABE
 32   WVIR-TV  CHARLOTTESVILLE VA       162.5  LIC    BLCDT     -20040908AAE
 32   WVIR-TV  CHARLOTTESVILLE VA       162.5  PLN    DTVPLN    -DTVP1199
 33   WMYV     GREENSBORO NC            419.6  LIC    BLCDT     -20020430ABD
 33   WMYV     GREENSBORO NC            419.6  PLN    DTVPLN    -DTVP1219
 33   WCBS-TV  NEW YORK NY              326.8  PLN    DTVPLN    -DTVP1222
 33   WTVZ-TV  NORFOLK VA               243.4  CP MOD BMPCDT    -20080620AJZ
 33   WTVZ-TV  NORFOLK VA               243.4  PLN    DTVPLN    -DTVP1233
 33   WNPB-TV  MORGANTOWN WV            245.1  CP MOD BMPEDT    -20080619ACQ
 33   WNPB-TV  MORGANTOWN WV            245.1  PLN    DTVPLN    -DTVP1237
 33   WNPB-TV  MORGANTOWN WV            245.1  LIC    BLEDT     -20040108AKW
 34   WJAC-TV  JOHNSTOWN PA             226.8  LIC    BLCDT     -20051123AKN
 34   WJAC-TV  JOHNSTOWN PA             226.8  PLN    DTVPLN    -DTVP1266
 34   WJAC-TV  JOHNSTOWN PA             226.8  CP     BPCDT     -20080619ADU
 34   WCAU     PHILADELPHIA PA          199.3  CP     BPCDT     -20080620AKG
 34   WCAU     PHILADELPHIA PA          199.3  PLN    DTVPLN    -DTVP1267
 34   WPXW-TV  MANASSAS VA                0.0  CP MOD BMPCDT    -20080620AML
 34   WPXW     MANASSAS VA                0.0  PLN    DTVPLN    -DTVP1274
 33   WCBS-DT  NEW YORK NY              331.1  APP    USERRECORD-01

 Total scenarios =   6


Result key:      127
Scenario        1  Affected station       10
Before Analysis

Results for: 33A DC WASHINGTON           BPEDT     20080619AGL  CP
   HAAT  254.0 m, ATV ERP 1000.0 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour     7360131      26442.2
   not affected by terrain losses   7313335      25541.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       34127        552.2
   lost to ATV IX only                34127        552.2
   lost to all IX                     34127        552.2

 Potential Interfering Stations Included in above Scenario     1

33A VA NORFOLK              BMPCDT    20080620AJZ  CP
33A WV MORGANTOWN           BMPEDT    20080619ACQ  CP
33A NY NEW YORK             DTVPLN    DTVP1222     PLN

After Analysis
```



```
Results for: 33A DC WASHINGTON           BPEDT     20080619AGL  CP
   HAAT  254.0 m, ATV ERP 1000.0 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour     7360131      26442.2
   not affected by terrain losses   7313335      25541.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       34127        552.2
   lost to ATV IX only                34127        552.2
   lost to all IX                     34127        552.2

 Potential Interfering Stations Included in above Scenario     1

33A VA NORFOLK              BMPCDT    20080620AJZ  CP
33A WV MORGANTOWN           BMPEDT    20080619ACQ  CP
33A NY NEW YORK             USERRECORD01           APP

Percent new IX =    0.0000%

Worst case new IX    0.0000% Scenario      1

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

     Analysis of Interference to Affected Station  11


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   33      WHUT-TV    WASHINGTON DC             DTVPLN    -DTVP1211

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 32   WTAJ-TV  ALTOONA PA               214.1  LIC    BLCDT     -20051018ACE
 32   WTAJ-TV  ALTOONA PA               214.1  PLN    DTVPLN    -DTVP1189
 32   WPSG     PHILADELPHIA PA          199.3  LIC    BLCDT     -20021025AAS
 32   WPSG     PHILADELPHIA PA          199.3  PLN    DTVPLN    -DTVP1190
 32   WPSG     PHILADELPHIA PA          199.3  CP     BPCDT     -20080616ABE
 32   WVIR-TV  CHARLOTTESVILLE VA       162.5  LIC    BLCDT     -20040908AAE
 32   WVIR-TV  CHARLOTTESVILLE VA       162.5  PLN    DTVPLN    -DTVP1199
 33   WMYV     GREENSBORO NC            419.6  LIC    BLCDT     -20020430ABD
 33   WMYV     GREENSBORO NC            419.6  PLN    DTVPLN    -DTVP1219
 33   WCBS-TV  NEW YORK NY              326.8  PLN    DTVPLN    -DTVP1222
 33   WTVZ-TV  NORFOLK VA               243.4  CP MOD BMPCDT    -20080620AJZ
 33   WTVZ-TV  NORFOLK VA               243.4  PLN    DTVPLN    -DTVP1233
 33   WNPB-TV  MORGANTOWN WV            245.1  CP MOD BMPEDT    -20080619ACQ
 33   WNPB-TV  MORGANTOWN WV            245.1  PLN    DTVPLN    -DTVP1237
 33   WNPB-TV  MORGANTOWN WV            245.1  LIC    BLEDT     -20040108AKW
 34   WJAC-TV  JOHNSTOWN PA             226.8  LIC    BLCDT     -20051123AKN
 34   WJAC-TV  JOHNSTOWN PA             226.8  PLN    DTVPLN    -DTVP1266
 34   WJAC-TV  JOHNSTOWN PA             226.8  CP     BPCDT     -20080619ADU
 34   WCAU     PHILADELPHIA PA          199.3  CP     BPCDT     -20080620AKG
 34   WCAU     PHILADELPHIA PA          199.3  PLN    DTVPLN    -DTVP1267
 34   WPXW-TV  MANASSAS VA                0.0  CP MOD BMPCDT    -20080620AML
 34   WPXW     MANASSAS VA                0.0  PLN    DTVPLN    -DTVP1274
 33   WCBS-DT  NEW YORK NY              331.1  APP    USERRECORD-01

 Total scenarios =   6


Result key:      133
Scenario        1  Affected station       11
```

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 15 of 24)

```
Before Analysis

Results for: 33A DC WASHINGTON           DTVPLN    DTVP1211     PLN
   HAAT  254.0 m, ATV ERP  100.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     6810141      17910.5
   not affected by terrain losses   6789915      17618.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       10784        128.0
   lost to ATV IX only                10784        128.0
   lost to all IX                     10784        128.0

 Potential Interfering Stations Included in above Scenario     1

33A VA NORFOLK              BMPCDT    20080620AJZ  CP
33A WV MORGANTOWN           BMPEDT    20080619ACQ  CP
33A NY NEW YORK             DTVPLN    DTVP1222     PLN

After Analysis

Results for: 33A DC WASHINGTON           DTVPLN    DTVP1211     PLN
   HAAT  254.0 m, ATV ERP  100.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     6810141      17910.5
   not affected by terrain losses   6789915      17618.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       10784        128.0
   lost to ATV IX only                10784        128.0
   lost to all IX                     10784        128.0

 Potential Interfering Stations Included in above Scenario     1

33A VA NORFOLK              BMPCDT    20080620AJZ  CP
33A WV MORGANTOWN           BMPEDT    20080619ACQ  CP
33A NY NEW YORK             USERRECORD01           APP

Percent new IX =    0.0000%

Worst case new IX    0.0000% Scenario      1

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

     Analysis of Interference to Affected Station  12


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   33      WPXG-TV    CONCORD NH               BLCDT     -20031014AEP

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 32   WBPX      BOSTON MA               97.8  PLN    DTVPLN     -DTVP1180
 32   WBPX-TV   BOSTON MA               97.8  LIC    BLCDT      -20040723ACG
 32   WBPX-TV   BOSTON MA               98.3  APP    BPCDT      -20080620ACX
 32   WETK      BURLINGTON VT          191.2  APP    BPEDT      -20050118AKO
 32   WETK      BURLINGTON VT          191.2  PLN    DTVPLN     -DTVP1201
 32   WETK      BURLINGTON VT          191.2  LIC    BLEDT      -20061011ADW
 33   WFSB      HARTFORD CT            198.4  LIC    BLCDT      -20041029AIL
 33   WFSB      HARTFORD CT            198.4  PLN    DTVPLN     -DTVP1210
 33   WFSB      HARTFORD CT            198.4  CP     BPCDT      -20080619AFT
 33   WCBS-TV   NEW YORK NY            353.7  PLN    DTVPLN     -DTVP1222
```

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 16 of 24)

```
 34   WNEU      MERRIMACK NH            31.2  LIC    BLCDT      -20021028AAH
 34   WNEU      MERRIMACK NH            31.2  PLN    DTVPLN     -DTVP1261
 34   WMHT      SCHENECTADY NY         227.7  LIC    BLEDT      -20040108ALV
 34   WMHT      SCHENECTADY NY         227.7  PLN    DTVPLN     -DTVP1263
 33   WCBS-DT   NEW YORK NY            349.1  APP    USERRECORD-01

 Total scenarios =   18


Result key:      139
Scenario        1  Affected station       12
Before Analysis

Results for: 33A NH CONCORD              BLCDT     20031014AEP  LIC
   HAAT  344.0 m, ATV ERP  100.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     2485051      19886.0
   not affected by terrain losses   2412661      17842.2
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       85341       1142.5
   lost to ATV IX only                85341       1142.5
   lost to all IX                     85341       1142.5

 Potential Interfering Stations Included in above Scenario     1

32A MA BOSTON               DTVPLN    DTVP1180     PLN
33A CT HARTFORD             BLCDT     20041029AIL  LIC
34A NH MERRIMACK            BLCDT     20021028AAH  LIC
33A NY NEW YORK             DTVPLN    DTVP1222     PLN

After Analysis

Results for: 33A NH CONCORD              BLCDT     20031014AEP  LIC
   HAAT  344.0 m, ATV ERP  100.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     2485051      19886.0
   not affected by terrain losses   2412661      17842.2
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       85341       1142.5
   lost to ATV IX only                85341       1142.5
   lost to all IX                     85341       1142.5

 Potential Interfering Stations Included in above Scenario     1

32A MA BOSTON               DTVPLN    DTVP1180     PLN
33A CT HARTFORD             BLCDT     20041029AIL  LIC
34A NH MERRIMACK            BLCDT     20021028AAH  LIC
33A NY NEW YORK             USERRECORD01           APP

Percent new IX =    0.0000%

Worst case new IX    0.0000% Scenario      1

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

     Analysis of Interference to Affected Station  13


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   33      WPXG       CONCORD NH               DTVPLN     -DTVP1220
```

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 17 of 24)

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
32	WBPX	BOSTON MA	97.8	PLN	DTVPLN	-DTVP1180
32	WBPX-TV	BOSTON MA	97.8	LIC	BLCDT	-20040723ACG
32	WBPX-TV	BOSTON MA	98.3	APP	BPCDT	-20080620ACX
32	WETK	BURLINGTON VT	191.2	APP	BPEDT	-20050118AKO
32	WETK	BURLINGTON VT	191.2	PLN	DTVPLN	-DTVP1201
32	WETK	BURLINGTON VT	191.2	LIC	BLEDT	-20061011ADW
33	WFSB	HARTFORD CT	198.4	LIC	BLCDT	-20041029AIL
33	WFSB	HARTFORD CT	198.4	PLN	DTVPLN	-DTVP1210
33	WFSB	HARTFORD CT	198.4	CP	BPCDT	-20080619AFT
33	WCBS-TV	NEW YORK NY	353.7	PLN	DTVPLN	-DTVP1222
34	WNEU	MERRIMACK NH	31.2	LIC	BLCDT	-20021028AAH
34	WNEU	MERRIMACK NH	31.2	PLN	DTVPLN	-DTVP1261
34	WMHT	SCHENECTADY NY	227.7	LIC	BLEDT	-20040108ALV
34	WMHT	SCHENECTADY NY	227.7	PLN	DTVPLN	-DTVP1263
33	WCBS-DT	NEW YORK NY	349.1	APP	USERRECORD-01	

Total scenarios = 18

Result key: 157
Scenario 1 Affected station 13
Before Analysis

Results for: 33A NH CONCORD DTVPLN DTVP1220 PLN
HAAT 344.0 m, ATV ERP 100.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2485051	19886.0
not affected by terrain losses	2412661	17842.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	85341	1142.5
lost to ATV IX only	85341	1142.5
lost to all IX	85341	1142.5

Potential Interfering Stations Included in above Scenario 1

32A MA BOSTON	DTVPLN	DTVP1180	PLN
33A CT HARTFORD	BLCDT	20041029AIL	LIC
34A NH MERRIMACK	BLCDT	20021028AAH	LIC
33A NY NEW YORK	DTVPLN	DTVP1222	PLN

After Analysis

Results for: 33A NH CONCORD DTVPLN DTVP1220 PLN
HAAT 344.0 m, ATV ERP 100.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2485051	19886.0
not affected by terrain losses	2412661	17842.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	85341	1142.5
lost to ATV IX only	85341	1142.5
lost to all IX	85341	1142.5

Potential Interfering Stations Included in above Scenario 1

32A MA BOSTON	DTVPLN	DTVP1180	PLN
33A CT HARTFORD	BLCDT	20041029AIL	LIC
34A NH MERRIMACK	BLCDT	20021028AAH	LIC
33A NY NEW YORK	USERRECORD01		APP

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 18 of 24)

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

##

Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
33	WPXG-TV	CONCORD NH	BPCDT	-20080619AJF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
32	WBPX	BOSTON MA	97.8	PLN	DTVPLN	-DTVP1180
32	WBPX-TV	BOSTON MA	97.8	LIC	BLCDT	-20040723ACG
32	WBPX-TV	BOSTON MA	98.3	APP	BPCDT	-20080620ACX
32	WETK	BURLINGTON VT	191.2	APP	BPEDT	-20050118AKO
32	WETK	BURLINGTON VT	191.2	PLN	DTVPLN	-DTVP1201
32	WETK	BURLINGTON VT	191.2	LIC	BLEDT	-20061011ADW
33	WFSB	HARTFORD CT	198.4	LIC	BLCDT	-20041029AIL
33	WFSB	HARTFORD CT	198.4	PLN	DTVPLN	-DTVP1210
33	WFSB	HARTFORD CT	198.4	CP	BPCDT	-20080619AFT
33	WCBS-TV	NEW YORK NY	353.7	PLN	DTVPLN	-DTVP1222
34	WNEU	MERRIMACK NH	31.2	LIC	BLCDT	-20021028AAH
34	WNEU	MERRIMACK NH	31.2	PLN	DTVPLN	-DTVP1261
34	WMHT	SCHENECTADY NY	227.7	LIC	BLEDT	-20040108ALV
34	WMHT	SCHENECTADY NY	227.7	PLN	DTVPLN	-DTVP1263
33	WCBS-DT	NEW YORK NY	349.1	APP	USERRECORD-01	

Total scenarios = 18

Result key: 191
Scenario 17 Affected station 14
Before Analysis

Results for: 33A NH CONCORD BPCDT 20080619AJF APP
HAAT 344.0 m, ATV ERP 190.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2948659	22103.9
not affected by terrain losses	2864008	20007.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	508847	1955.3
lost to ATV IX only	508847	1955.3
lost to all IX	508847	1955.3

Potential Interfering Stations Included in above Scenario 17

32A MA BOSTON	BPCDT	20080620ACX	APP
33A CT HARTFORD	BPCDT	20080619AFT	CP
34A NH MERRIMACK	BLCDT	20021028AAH	LIC
33A NY NEW YORK	DTVPLN	DTVP1222	PLN

After Analysis

Results for: 33A NH CONCORD BPCDT 20080619AJF APP
HAAT 344.0 m, ATV ERP 190.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2948659	22103.9
not affected by terrain losses	2864008	20007.8

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 19 of 24)

```
   lost to NTSC IX                        0         0.0
   lost to additional IX by ATV      509091      1959.3
   lost to ATV IX only               509091      1959.3
   lost to all IX                    509091      1959.3

 Potential Interfering Stations Included in above Scenario    17

32A MA BOSTON              BPCDT     20080620ACX  APP
33A CT HARTFORD            BPCDT     20080619AFT  CP
34A NH MERRIMACK           BLCDT     20021028AAH  LIC
33A NY NEW YORK            USERRECORD01           APP

Percent new IX =    0.0104%

Worst case new IX    0.0104% Scenario     17

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

     Analysis of Interference to Affected Station  15


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   34      WIVT       BINGHAMTON NY             BPCDT     -20080314ACR

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 33   WGRZ     BUFFALO NY               227.1  LIC    BLCDT     -20050705AAG
 33   WGRZ-TV  BUFFALO NY               227.1  PLN    DTVPLN    -DTVP1221
 33   WCBS-TV  NEW YORK NY              219.9  PLN    DTVPLN    -DTVP1222
 34   WNEU     MERRIMACK NH             371.1  LIC    BLCDT     -20021028AAH
 34   WNEU     MERRIMACK NH             371.1  PLN    DTVPLN    -DTVP1261
 34   WMHT     SCHENECTADY NY           170.7  LIC    BLEDT     -20040108ALV
 34   WMHT     SCHENECTADY NY           170.7  PLN    DTVPLN    -DTVP1263
 34   WJAC-TV  JOHNSTOWN PA             315.9  LIC    BLCDT     -20051123AKN
 34   WJAC-TV  JOHNSTOWN PA             315.9  PLN    DTVPLN    -DTVP1266
 34   WJAC-TV  JOHNSTOWN PA             315.9  CP     BPCDT     -20080619ADU
 34   WCAU     PHILADELPHIA PA          232.1  CP     BPCDT     -20080620AKG
 34   WCAU     PHILADELPHIA PA          232.1  PLN    DTVPLN    -DTVP1267
 34   WPXW-TV  MANASSAS VA              358.8  CP MOD BMPCDT    -20080620AML
 34   WPXW     MANASSAS VA              358.8  PLN    DTVPLN    -DTVP1274
 33   WCBS-DT  NEW YORK NY              218.9  APP    USERRECORD-01
 Proposal causes no interference

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

     Analysis of Interference to Affected Station  16


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   34      WIVT       BINGHAMTON NY             DTVPLN    -DTVP1262

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 33   WGRZ     BUFFALO NY               227.1  LIC    BLCDT     -20050705AAG
 33   WGRZ-TV  BUFFALO NY               227.1  PLN    DTVPLN    -DTVP1221
 33   WCBS-TV  NEW YORK NY              219.9  PLN    DTVPLN    -DTVP1222
 34   WNEU     MERRIMACK NH             371.1  LIC    BLCDT     -20021028AAH
 34   WNEU     MERRIMACK NH             371.1  PLN    DTVPLN    -DTVP1261
```

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 20 of 24)

```
 34   WMHT     SCHENECTADY NY           170.7  LIC    BLEDT     -20040108ALV
 34   WMHT     SCHENECTADY NY           170.7  PLN    DTVPLN    -DTVP1263
 34   WJAC-TV  JOHNSTOWN PA             315.9  LIC    BLCDT     -20051123AKN
 34   WJAC-TV  JOHNSTOWN PA             315.9  PLN    DTVPLN    -DTVP1266
 34   WJAC-TV  JOHNSTOWN PA             315.9  CP     BPCDT     -20080619ADU
 34   WCAU     PHILADELPHIA PA          232.1  CP     BPCDT     -20080620AKG
 34   WCAU     PHILADELPHIA PA          232.1  PLN    DTVPLN    -DTVP1267
 34   WPXW-TV  MANASSAS VA              358.8  CP MOD BMPCDT    -20080620AML
 34   WPXW     MANASSAS VA              358.8  PLN    DTVPLN    -DTVP1274
 33   WCBS-DT  NEW YORK NY              218.9  APP    USERRECORD-01
 Proposal causes no interference

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

     Analysis of Interference to Affected Station  17


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   34      WMHT       SCHENECTADY NY            BLEDT     -20040108ALV

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 33   WFSB     HARTFORD CT              137.0  LIC    BLCDT     -20041029AIL
 33   WFSB     HARTFORD CT              137.0  PLN    DTVPLN    -DTVP1210
 33   WFSB     HARTFORD CT              137.0  CP     BPCDT     -20080619AFT
 33   WPXG-TV  CONCORD NH               227.7  LIC    BLCDT     -20031014AEP
 33   WPXG     CONCORD NH               227.7  PLN    DTVPLN    -DTVP1220
 33   WPXG-TV  CONCORD NH               227.7  APP    BPCDT     -20080619AJF
 33   WCBS-TV  NEW YORK NY              212.7  PLN    DTVPLN    -DTVP1222
 34   WNEU     MERRIMACK NH             201.5  LIC    BLCDT     -20021028AAH
 34   WNEU     MERRIMACK NH             201.5  PLN    DTVPLN    -DTVP1261
 34   WIVT     BINGHAMTON NY            170.7  CP     BPCDT     -20080314ACR
 34   WIVT     BINGHAMTON NY            170.7  PLN    DTVPLN    -DTVP1262
 34   WCAU     PHILADELPHIA PA          304.8  CP     BPCDT     -20080620AKG
 34   WCAU     PHILADELPHIA PA          304.8  PLN    DTVPLN    -DTVP1267
 35   WVIT     NEW BRITAIN CT           141.4  LIC    BLCDT     -20041203AEF
 35   WVIT     NEW BRITAIN CT           141.4  PLN    DTVPLN    -DTVP1281
 35   WZMY-TV  DERRY NH                 214.2  LIC    BLCDT     -20070126ACX
 35   WZMY-TV  DERRY NH                 214.3  PLN    DTVPLN    -DTVP1299
 33   WCBS-DT  NEW YORK NY              208.6  APP    USERRECORD-01

 Proposed station is beyond the site to
 nearest cell evaluation distance

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

     Analysis of Interference to Affected Station  18


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   34      WMHT       SCHENECTADY NY            DTVPLN    -DTVP1263

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 33   WFSB     HARTFORD CT              137.0  LIC    BLCDT     -20041029AIL
 33   WFSB     HARTFORD CT              137.0  PLN    DTVPLN    -DTVP1210
 33   WFSB     HARTFORD CT              137.0  CP     BPCDT     -20080619AFT
 33   WPXG-TV  CONCORD NH               227.7  LIC    BLCDT     -20031014AEP
```

33	WPXG	CONCORD NH	227.7	PLN	DTVPLN	-DTVP1220
33	WPXG-TV	CONCORD NH	227.7	APP	BPCDT	-20080619AJF
33	WCBS-TV	NEW YORK NY	212.7	PLN	DTVPLN	-DTVP1222
34	WNEU	MERRIMACK NH	201.5	LIC	BLCDT	-20021028AAH
34	WNEU	MERRIMACK NH	201.5	PLN	DTVPLN	-DTVP1261
34	WIVT	BINGHAMTON NY	170.7	CP	BPCDT	-20080314ACR
34	WIVT	BINGHAMTON NY	170.7	PLN	DTVPLN	-DTVP1262
34	WCAU	PHILADELPHIA PA	304.8	CP	BPCDT	-20080620AKG
34	WCAU	PHILADELPHIA PA	304.8	PLN	DTVPLN	-DTVP1267
35	WVIT	NEW BRITAIN CT	141.4	LIC	BLCDT	-20041203AEF
35	WVIT	NEW BRITAIN CT	141.4	PLN	DTVPLN	-DTVP1281
35	WZMY-TV	DERRY NH	214.2	LIC	BLCDT	-20070126ACX
35	WZMY-TV	DERRY NH	214.3	PLN	DTVPLN	-DTVP1299
33	WCBS-DT	NEW YORK NY	208.6	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 19

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
34	WCAU	PHILADELPHIA PA	BPCDT	-20080620AKG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
33	WHUT-TV	WASHINGTON DC	199.3	CP	BPEDT	-20080619AGL
33	WHUT-TV	WASHINGTON DC	199.3	PLN	DTVPLN	-DTVP1211
33	WCBS-TV	NEW YORK NY	127.6	PLN	DTVPLN	-DTVP1222
34	WIVT	BINGHAMTON NY	232.1	CP	BPCDT	-20080314ACR
34	WIVT	BINGHAMTON NY	232.1	PLN	DTVPLN	-DTVP1262
34	WMHT	SCHENECTADY NY	304.8	LIC	BLEDT	-20040108ALV
34	WMHT	SCHENECTADY NY	304.8	PLN	DTVPLN	-DTVP1263
34	WJAC-TV	JOHNSTOWN PA	320.1	LIC	BLCDT	-20051123AKN
34	WJAC-TV	JOHNSTOWN PA	320.1	PLN	DTVPLN	-DTVP1266
34	WJAC-TV	JOHNSTOWN PA	320.1	CP	BPCDT	-20080619ADU
34	WPXW-TV	MANASSAS VA	199.3	CP MOD	BMPCDT	-20080620AML
34	WPXW	MANASSAS VA	199.3	PLN	DTVPLN	-DTVP1274
35	WDCA	WASHINGTON DC	199.1	APP	BPCDT	-20080620ANP
35	WDCA	WASHINGTON DC	199.1	PLN	DTVPLN	-DTVP1282
35	WDCA	WASHINGTON DC	199.1	CP MOD	BMPCDT	-20060519ACK
35	WYBE	PHILADELPHIA PA	0.0	CP MOD	BMPEDT	-20080620ANN
35	WYBE	PHILADELPHIA PA	0.0	PLN	DTVPLN	-DTVP1304
33	WCBS-DT	NEW YORK NY	131.8	APP	USERRECORD-01	

Total scenarios = 12

Result key: 201
Scenario 9 Affected station 19
Before Analysis

Results for: 34A PA PHILADELPHIA BPCDT 20080620AKG CP
HAAT 400.0 m, ATV ERP 700.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	10374042	33622.8
not affected by terrain losses	10237510	32554.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	494668	1790.6

lost to ATV IX only	494668	1790.6
lost to all IX	494668	1790.6

Potential Interfering Stations Included in above Scenario 9

34A NY BINGHAMTON	DTVPLN	DTVP1262	PLN
34A NY SCHENECTADY	BLEDT	20040108ALV	LIC
34A PA JOHNSTOWN	BPCDT	20080619ADU	CP
34A VA MANASSAS	BMPCDT	20080620AML	CP
33A NY NEW YORK	DTVPLN	DTVP1222	PLN

After Analysis

Results for: 34A PA PHILADELPHIA BPCDT 20080620AKG CP
HAAT 400.0 m, ATV ERP 700.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	10374042	33622.8
not affected by terrain losses	10237510	32554.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	500763	1770.5
lost to ATV IX only	500763	1770.5
lost to all IX	500763	1770.5

Potential Interfering Stations Included in above Scenario 9

34A NY BINGHAMTON	DTVPLN	DTVP1262	PLN
34A NY SCHENECTADY	BLEDT	20040108ALV	LIC
34A PA JOHNSTOWN	BPCDT	20080619ADU	CP
34A VA MANASSAS	BMPCDT	20080620AML	CP
33A NY NEW YORK	USERRECORD01		APP

Percent new IX = 0.0626%

Worst case new IX 0.0626% Scenario 9

##

Analysis of Interference to Affected Station 20

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
34	WCAU	PHILADELPHIA PA	DTVPLN	-DTVP1267

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
33	WHUT-TV	WASHINGTON DC	199.3	CP	BPEDT	-20080619AGL
33	WHUT-TV	WASHINGTON DC	199.3	PLN	DTVPLN	-DTVP1211
33	WCBS-TV	NEW YORK NY	127.6	PLN	DTVPLN	-DTVP1222
34	WIVT	BINGHAMTON NY	232.1	CP	BPCDT	-20080314ACR
34	WIVT	BINGHAMTON NY	232.1	PLN	DTVPLN	-DTVP1262
34	WMHT	SCHENECTADY NY	304.8	LIC	BLEDT	-20040108ALV
34	WMHT	SCHENECTADY NY	304.8	PLN	DTVPLN	-DTVP1263
34	WJAC-TV	JOHNSTOWN PA	320.1	LIC	BLCDT	-20051123AKN
34	WJAC-TV	JOHNSTOWN PA	320.1	PLN	DTVPLN	-DTVP1266
34	WJAC-TV	JOHNSTOWN PA	320.1	CP	BPCDT	-20080619ADU
34	WPXW-TV	MANASSAS VA	199.3	CP MOD	BMPCDT	-20080620AML
34	WPXW	MANASSAS VA	199.3	PLN	DTVPLN	-DTVP1274
35	WDCA	WASHINGTON DC	199.1	APP	BPCDT	-20080620ANP
35	WDCA	WASHINGTON DC	199.1	PLN	DTVPLN	-DTVP1282
35	WDCA	WASHINGTON DC	199.1	CP MOD	BMPCDT	-20060519ACK

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 23 of 24)

```
 35   WYBE     PHILADELPHIA PA             0.0  CP MOD BMPEDT    -20080620ANN
 35   WYBE     PHILADELPHIA PA             0.0  PLN    DTVPLN    -DTVP1304
 33   WCBS-DT  NEW YORK NY               131.8  APP    USERRECORD-01

 Total scenarios =   12

Result key:      213
Scenario        9  Affected station       20
Before Analysis

Results for: 34A PA PHILADELPHIA         DTVPLN    DTVP1267     PLN
   HAAT  377.0 m, ATV ERP  325.0 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour     9218845      28238.8
   not affected by terrain losses   9083841      27577.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      264365       1395.4
   lost to ATV IX only               264365       1395.4
   lost to all IX                    264365       1395.4

 Potential Interfering Stations Included in above Scenario     9

34A NY BINGHAMTON           DTVPLN    DTVP1262     PLN
34A NY SCHENECTADY          BLEDT     20040108ALV  LIC
34A PA JOHNSTOWN            BPCDT     20080619ADU  CP
34A VA MANASSAS             BMPCDT    20080620AML  CP
33A NY NEW YORK             DTVPLN    DTVP1222     PLN

After Analysis

Results for: 34A PA PHILADELPHIA         DTVPLN    DTVP1267     PLN
   HAAT  377.0 m, ATV ERP  325.0 kW
                               POPULATION   AREA (sq km)
   within Noise Limited Contour     9218845      28238.8
   not affected by terrain losses   9083841      27577.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      316531       1407.5
   lost to ATV IX only               316531       1407.5
   lost to all IX                    316531       1407.5

 Potential Interfering Stations Included in above Scenario     9

34A NY BINGHAMTON           DTVPLN    DTVP1262     PLN
34A NY SCHENECTADY          BLEDT     20040108ALV  LIC
34A PA JOHNSTOWN            BPCDT     20080619ADU  CP
34A VA MANASSAS             BMPCDT    20080620AML  CP
33A NY NEW YORK             USERRECORD01           APP

 The following station failed the de minimis interference criteria.
 33D NY NEW YORK             USERRECORD01
 ERP  426.00 kW  HAAT   398.0 m  RCAMSL   411.0 m
 Antenna     none

 Due to interference to the following station and scenario:     9
 34D PA PHILADELPHIA         DTVPLN    DTVP1267
 ERP  325.00 kW  HAAT   377.0 m  RCAMSL   441.0 m
 Antenna CDB 00000000071122

 Percent new interference from proposal:       0.5915 to DTVPLN    DTVP1267

Worst case new IX    0.5915% Scenario      9
```

Table 1 WCBS-TV OET Bulletin 69 Interference Study
(worst-case scenarios shown page 24 of 24)

```
######################################################################

     Analysis of Interference to Affected Station  21


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   33      WCBS-DT    NEW YORK NY              USERRECORD-01

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 32   WPSG     PHILADELPHIA PA          131.8  LIC    BLCDT     -20021025AAS
 32   WPSG     PHILADELPHIA PA          131.8  PLN    DTVPLN    -DTVP1190
 32   WPSG     PHILADELPHIA PA          131.8  CP     BPCDT     -20080616ABE
 32   WQPX-TV  SCRANTON PA              164.5  LIC    BLCDT     -20060629AFR
 32   WQPX     SCRANTON PA              164.5  PLN    DTVPLN    -DTVP1191
 33   WFSB     HARTFORD CT              150.8  LIC    BLCDT     -20041029AIL
 33   WFSB     HARTFORD CT              150.8  PLN    DTVPLN    -DTVP1210
 33   WFSB     HARTFORD CT              150.8  CP     BPCDT     -20080619AFT
 33   WHUT-TV  WASHINGTON DC            331.1  CP     BPEDT     -20080619AGL
 33   WHUT-TV  WASHINGTON DC            331.1  PLN    DTVPLN    -DTVP1211
 33   WPXG-TV  CONCORD NH               349.1  LIC    BLCDT     -20031014AEP
 33   WPXG     CONCORD NH               349.1  PLN    DTVPLN    -DTVP1220
 33   WPXG-TV  CONCORD NH               349.1  APP    BPCDT     -20080619AJF
 34   WIVT     BINGHAMTON NY            218.9  CP     BPCDT     -20080314ACR
 34   WIVT     BINGHAMTON NY            218.9  PLN    DTVPLN    -DTVP1262
 34   WMHT     SCHENECTADY NY           208.6  LIC    BLEDT     -20040108ALV
 34   WMHT     SCHENECTADY NY           208.6  PLN    DTVPLN    -DTVP1263
 34   WCAU     PHILADELPHIA PA          131.8  CP     BPCDT     -20080620AKG
 34   WCAU     PHILADELPHIA PA          131.8  PLN    DTVPLN    -DTVP1267

 Total scenarios =   72


Result key:      249
Scenario       33  Affected station       21
Before Analysis

Results for: 33A NY NEW YORK             USERRECORD01           APP
   HAAT  398.0 m, ATV ERP  426.0 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour    20111863      30794.2
   not affected by terrain losses  19790062      28882.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      825780       3727.1
   lost to ATV IX only               825780       3727.1
   lost to all IX                    825780       3727.1

 Potential Interfering Stations Included in above Scenario    33

32A PA PHILADELPHIA         BPCDT     20080616ABE  CP
33A CT HARTFORD             BPCDT     20080619AFT  CP
33A DC WASHINGTON           BPEDT     20080619AGL  CP
34A PA PHILADELPHIA         BPCDT     20080620AKG  CP


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

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED
```

SECTION III-D - DTV Engineering

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

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

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

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

SECTION III-D - DTV Engineering

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

TECH BOX

1.	Channel Number: DTV 33 Analog TV, if any	
2.	Zone: (•) I ( ) II ( ) III	
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 40 Minutes 44 Seconds 54 (•) North ( ) South Longitude: Degrees 73 Minutes 59 Seconds 10 (•) West ( ) East	
4.	Antenna Structure Registration Number: 1007048 ☐ Not Applicable ☐ Notification filed with FAA	
5.	Antenna Location Site Elevation Above Mean Sea Level:	15.5 meters
6.	Overall Tower Height Above Ground Level:	443 meters
7.	Height of Radiation Center Above Ground Level:	395 meters
8.	Height of Radiation Center Above Average Terrain :	397 meters
9.	Maximum Effective Radiated Power (average power):	426 kW

10.	Antenna Specifications: a. Manufacturer DIE Model ESBTUF8O b. Electrical Beam Tilt: 1 degrees ☐ Not Applicable c. Mechanical Beam Tilt: degrees toward azimuth degrees True ☑ Not Applicable Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).	[Exhibit 43]
	d. Polorization: ○ Horizontal ○ Circular ◉ Elliptical e. Directional Antenna Relative Field Values: ☑ Not applicable (Nondirectional) [For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.] [Relative Field Values]	
	If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. **Exhibit required.**	[Exhibit 44]
11.	Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if **Certification Checklist** Items 1(a), (b), or (c) are answered "No.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616? If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.	◉ Yes ○ No [Exhibit 45]
12.	If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if **Certification Checklist** item 3 is answered "No.")	[Exhibit 46]
13.	**Environmental Protection Act. Submit in an Exhibit** the following: If **Certification Checklist** Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site. By checking "Yes" to **Certification Checklist** Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines. If **Certification Checklist** Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.	[Exhibit 47]

PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.

SECTION III - PREPARER'S CERTIFICATION

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

Name JOSEPH M. DAVIS, P.E.	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature	Date 9/24/2009	
Mailing Address CHESAPEAKE RF CONSULTANTS, LLC 11993 KAHNS ROAD		
City MANASSAS	State or Country (if foreign address) VA	Zip Code 20112 -
Telephone Number (include area code) 7036509600	E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM	