

## **ENGINEERING EXHIBIT**

### **“Maximization” Application for Post-Transition Digital Television Station Construction Permit**

prepared for

**CBS Corporation**  
WBZ-DT Boston, MA  
Facility ID 25456  
Ch. 30 915 kW 390 m

*CBS Corporation (“CBS”)* is the licensee of television station WBZ-TV, analog Channel 4 and digital Channel 30, Boston, MA. *CBS* herein seeks a Construction Permit to expand the WBZ-DT post-transition digital facility on Channel 30. WBZ-DT will be remaining on Channel 30 during the post-transition period, as established in Appendix B of the Seventh Report and Order in MB Docket 87-278. The instant application is intended to be filed by June 20, 2008 in response to the FCC’s lifting of the August 3, 2004 “freeze” concerning expansion in service area.<sup>1</sup>

WBZ-DT is presently licensed (BLCDT-20060420ABG) to operate with an effective radiated power (“ERP”) of 825 kW with a nondirectional antenna at 390 meters height above average terrain (“HAAT”). The proposal would increase the ERP to 915 kW with the continued use of the currently licensed antenna system. The antenna is a horizontally polarized Harris model TAD-24UDA 5/60-MR.

The antenna is top-mounted on an existing antenna supporting structure, having FCC Antenna Structure Registration (“ASR”) number 1003433. No change to the overall structure height and no tower work are required to carry out this proposal.

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<sup>1</sup>Public Notice “*Commission Lifts the Freeze On the Filing of Maximization Applications and Petitions for Digital Channel Substitutions, Effective Immediately*” DA 08-1213, released May 30, 2008.

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

The proposed WBZ-DT facility's predicted service population provides a 100.4 percent match of the Appendix B facility, as detailed in the table below.

<b>Post-Transition Population Summary</b>		
Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	7,510,179	7,571,315
Not affected by terrain losses	7,364,672	7,391,390
Lost to all interference	90,082	85,677
Net DTV Service	<b>7,274,590</b>	<b>7,305,713</b>
Match of Appendix B	---	<b>100.43%</b>

A detailed interference study per OET Bulletin 69<sup>2</sup> shows that the proposal complies with the 0.5 percent limit of new interference caused to the Appendix B facilities and current post-transition authorizations of pertinent nearby stations. 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 295 km distant at Belfast, ME. This exceeds by a large margin 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 (302 km to the Canada border), and further international coordination may be necessary.

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<sup>2</sup>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.

### **Human Exposure to Radiofrequency Electromagnetic Field (Environmental)**

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

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and considering 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 tower at two meters above ground level attributable to the proposed facility is  $8.2 \mu\text{W}/\text{cm}^2$ , which is 2.2 percent of the general population/uncontrolled maximum permitted exposure limit. This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

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

### **Certification**

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

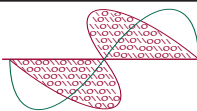
Joseph M. Davis, P.E.  
June 11, 2008

**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 June 11, 2008 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.*

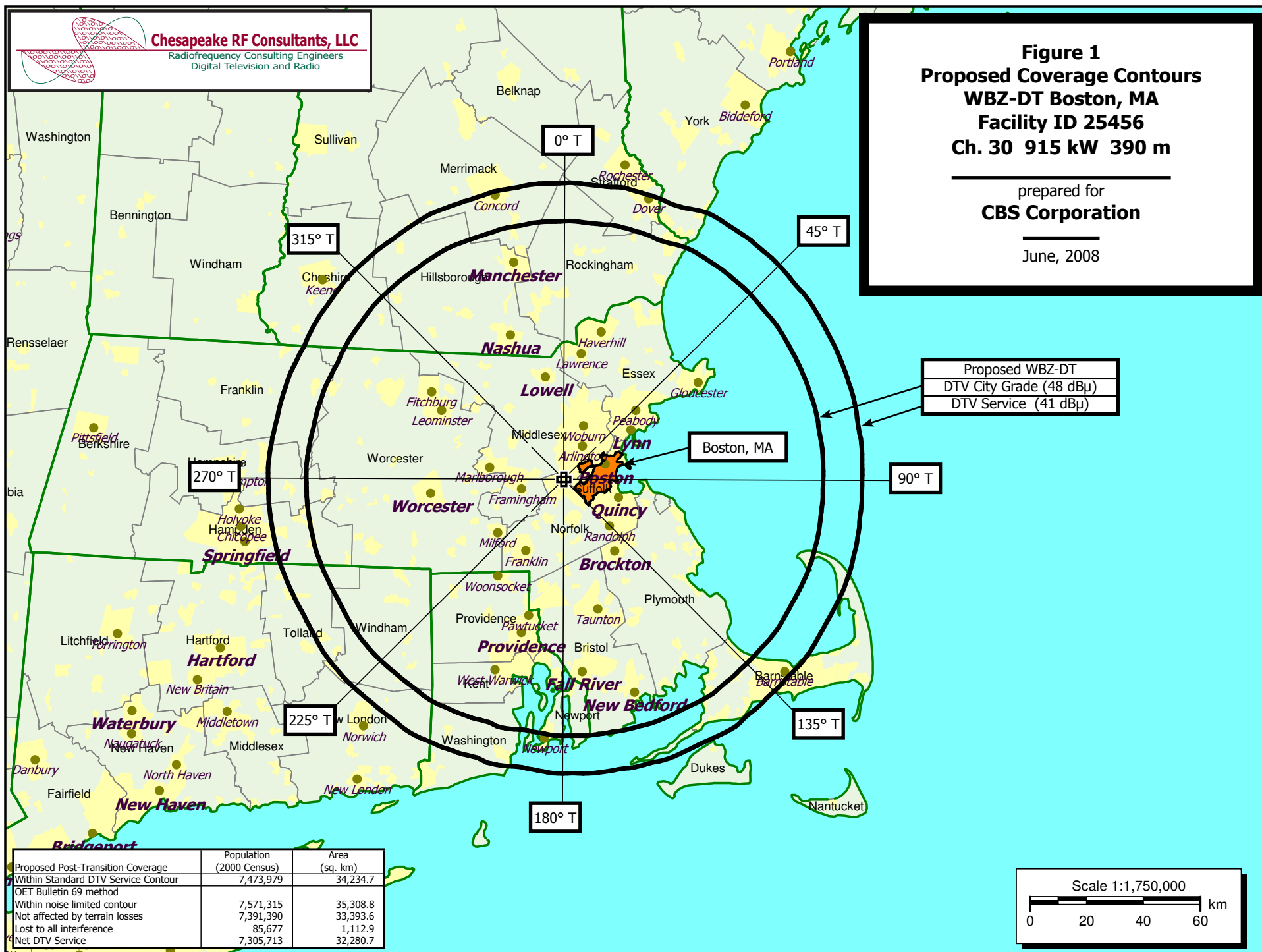


**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 1**  
**Proposed Coverage Contours**  
**WBZ-DT Boston, MA**  
**Facility ID 25456**  
**Ch. 30 915 kW 390 m**

prepared for  
**CBS Corporation**

June, 2008



**Table 1 WBZ-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 1 of 16)

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

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-03-2008 Time: 16:10:39

Record Selected for Analysis

WBZ-DT USERRECORD-01 BOSTON MA US  
Channel 30 ERP 915. kW HAAT 391. m RCAMSL 00434 m  
Latitude 042-18-37 Longitude 0071-14-14  
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	915.000	387.5	104.1
45.0	915.000	414.8	106.6
90.0	915.000	395.8	104.9
135.0	915.000	397.0	105.0
180.0	915.000	378.2	103.3
225.0	915.000	383.7	103.8
270.0	915.000	384.0	103.8
315.0	915.000	383.5	103.8

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 = 302.0km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 2 of 16)

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## Start of Interference Analysis

Channel	Call	City/State	ARN
30	WBZ-DT	BOSTON MA	USERRECORD01

## Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	WFXQ-CA	SPRINGFIELD MA	116.0	LIC	BLTTA	-20060302ABV
29	WUNI	WORCESTER MA	39.4	CP MOD	BMPCDT	-20070308AFR
29	WUNI	WORCESTER MA	39.4	PLN	DTVPLN	-DTVP1072
30	WFUT-TV	NEWARK NJ	286.6	PLN	DTVPLN	-DTVP1113
30	WUTR	UTICA NY	334.7	LIC	BLCDT	-20040217ADC
30	WUTR	UTICA NY	334.7	PLN	DTVPLN	-DTVP1115
30	WBVT-CA	BURLINGTON VT	311.8	APP	BMJPTTA	-20040310ACX
30	WBVT-CA	BURLINGTON VT	276.3	LIC	BLTTL	-19990809JD
31	WTIC-TV	HARTFORD CT	148.0	CP MOD	BMPCDT	-20040616AAM
31	WTIC-TV	HARTFORD CT	148.0	PLN	DTVPLN	-DTVP1133
31	WFXT	BOSTON MA	1.7	LIC	BLCDT	-19990507KI
31	WFXT	BOSTON MA	1.7	PLN	DTVPLN	-DTVP1146
31	WFXT	BOSTON MA	1.7	CP MOD	BMPCDT	-20080307ABR

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## Analysis of Interference to Affected Station 1

Analysis of current record  
Channel Call City/State Application Ref. No.  
28 WFXQ-CA SPRINGFIELD MA BLTTA -20060302ABV

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
20	WTXX	WATERBURY CT	62.8	PLN	DTVPLN	-DTVP0721
20	WTXX	WATERBURY CT	62.8	CP	BPCDT	-20080328AIO
20	WCVB-TV	BOSTON MA	116.0	LIC	BLCDT	-20020102AAH
20	WCVB-TV	BOSTON MA	116.0	PLN	DTVPLN	-DTVP0727
21	WSBE-TV	PROVIDENCE RI	120.0	LIC	BLEDT	-20050307ACR
21	WSBE-TV	PROVIDENCE RI	120.0	PLN	DTVPLN	-DTVP0780
24	WVTA	WINDSOR VT	132.8	CP MOD	BMPEDT	-20060306BRA
24	WVTA	WINDSOR VT	132.7	PLN	DTVPLN	-DTVP0910
25	WNNE	HARTFORD VT	132.8	LIC	BLCDT	-20050801BFZ
25	WNNE	HARTFORD VT	132.8	PLN	DTVPLN	-DTVP0940
26	WHPX	NEW LONDON CT	99.8	PLN	DTVPLN	-DTVP0950
26	WHPX	NEW LONDON CT	99.8	CP	BPCDT	-20080313ABQ
26	WTEN	ALBANY NY	119.5	LIC	BLCDT	-20060104ACC
26	WTEN	ALBANY NY	119.5	PLN	DTVPLN	-DTVP0968
27	WUTF-TV	MARLBOROUGH MA	95.8	CP	BPCDT	-20080328AIV
27	WUTF-TV	MARLBOROUGH MA	95.8	PLN	DTVPLN	-DTVP1001
27	WUNI	WORCESTER MA	77.0	LIC	BLCT	-19991214ABC
28	W28AJ	ALLINGTOWN CT	110.0	LIC	BLTTL	-20010608AAO
28	WLWC	NEW BEDFORD MA	151.3	LIC	BMLCT	-20031210ABA
28	W28DA	PITTSFIELD, ETC. MA	54.5	LIC	BLTT	-20061011AAH
28	W28CM	MANCHESTER NH	110.3	LIC	BLTTL	-20050418AAQ
28	WNBC	NEW YORK NY	200.9	STA	BDSTA	-20041220ADE
28	WNBC	NEW YORK NY	205.6	PLN	DTVPLN	-DTVP1049

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 3 of 16)

28	WNBC	NEW YORK NY	200.9	CP MOD	BMPCDT	-20080314ACO
28	WBRE-TV	WILKES-BARRE PA	292.4	LIC	BLCT	-19891005KF
28	WVER	RUTLAND VT	160.9	LIC	BLET	-19930715KJ
29	WUNI	WORCESTER MA	77.0	CP MOD	BMPCDT	-20070308AFR
29	WUNI	WORCESTER MA	77.1	PLN	DTVPLN	-DTVPI072
30	WBZ-TV	BOSTON MA	116.0	LIC	BLCDT	-20060420ABG
30	WBZ-TV	BOSTON MA	116.0	PLN	DTVPLN	-DTVPI110
31	WTIC-TV	HARTFORD CT	62.8	CP MOD	BMPCDT	-20040616AAM
31	WTIC-TV	HARTFORD CT	62.8	PLN	DTVPLN	-DTVPI133
31	WFXT	BOSTON MA	117.4	LIC	BLCDT	-19990507KI
31	WFXT	BOSTON MA	117.4	PLN	DTVPLN	-DTVPI146
31	WFXT	BOSTON MA	117.5	CP MOD	BMPCDT	-20080307ABR
32	WPX	BOSTON MA	117.0	LIC	BLCDT	-20040723ACG
32	WPX	BOSTON MA	117.0	PLN	DTVPLN	-DTVPI183
35	WVIT	NEW BRITAIN CT	63.1	LIC	BLCDT	-20041203AEF
35	WVIT	NEW BRITAIN CT	63.1	PLN	DTVPLN	-DTVPI282
35	WZMY-TV	DERRY NH	115.8	LIC	BLCDT	-20070126ACX
35	WZMY-TV	DERRY NH	115.9	PLN	DTVPLN	-DTVPI300
36	WCDC-TV	ADAMS MA	60.7	APP	BMPCDT	-20080521ACA
36	WCDC-TV	ADAMS MA	60.7	PLN	DTVPLN	-DTVPI331
36	WCDC-TV	ADAMS MA	60.7	CP MOD	BMPCDT	-20080313AAL
42	WSAH	BRIDGEPORT CT	106.2	LIC	BLCDT	-20061218ACB
42	WSAH	BRIDGEPORT CT	106.2	PLN	DTVPLN	-DTVPI494
43	WSAH	BRIDGEPORT CT	106.2	LIC	BLCT	-20061116ACY
43	WGBX-TV	BOSTON MA	116.0	LIC	BLEDT	-20021219AAN
43	WGBX-TV	BOSTON MA	116.0	PLN	DTVPLN	-DTVPI539
43	WCWN	SCHENECTADY NY	119.5	LIC	BLCDT	-20050623ABN
43	WCWN	SCHENECTADY NY	119.5	PLN	DTVPLN	-DTVPI549
30	WBZ-DT	BOSTON MA	116.0	APP	USERRECORD-01	

Proposed station is beyond the site to  
nearest cell evaluation distance

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## Analysis of Interference to Affected Station 2

## Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	WUNI	WORCESTER MA	BMPCDT -20070308AFR

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	WUVP-TV	VINELAND NJ	389.5	CP	BPCDT -20080328AIW
29	WUVP-TV	VINELAND NJ	389.5	PLN	DTVPLN -DTVPI080
29	WFME-TV	WEST MILFORD NJ	272.4	LIC	BLEDT -20040712ACP
29	WFME-TV	WEST MILFORD NJ	272.4	PLN	DTVPLN -DTVPI081
29	WKTV	UTICA NY	276.8	LIC	BLCDT -20060630ACL
29	WKTV	UTICA NY	276.8	PLN	DTVPLN -DTVPI085
30	WBZ-TV	BOSTON MA	39.4	PLN	DTVPLN -DTVPI110
30	WBZ-DT	BOSTON MA	39.4	APP	USERRECORD-01

Total scenarios = 4

Result key: 1  
Scenario 1 Affected station 2  
Before Analysis

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 4 of 16)

Results for: 29A MA WORCESTER		BMPCDT	20070308AFR	CP
HAAT 468.0 m, ATV ERP 165.0 kW				
		POPULATION	AREA (sq km)	
within Noise Limited Contour		7948688	29343.7	
not affected by terrain losses		7615532	27389.1	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		655640	2792.9	
lost to ATV IX only		655640	2792.9	
lost to all IX		655640	2792.9	

Potential Interfering Stations Included in above Scenario 1

29A NJ WEST MILFORD	BLEDT	20040712ACP	LIC
29A NY UTICA	BLCDT	20060630ACL	LIC
30A MA BOSTON	DTVPLN	DTVPI110	PLN

## After Analysis

Results for: 29A MA WORCESTER		BMPCDT	20070308AFR	CP
HAAT 468.0 m, ATV ERP 165.0 kW				
		POPULATION	AREA (sq km)	
within Noise Limited Contour		7948688	29343.7	
not affected by terrain losses		7615532	27389.1	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		681270	2909.8	
lost to ATV IX only		681270	2909.8	
lost to all IX		681270	2909.8	

Potential Interfering Stations Included in above Scenario 1

29A NJ WEST MILFORD	BLEDT	20040712ACP	LIC
29A NY UTICA	BLCDT	20060630ACL	LIC
30A MA BOSTON	USERRECORD01		APP

Percent new IX = 0.3683%

Worst case new IX 0.3683% Scenario 1

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## Analysis of Interference to Affected Station 3

## Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	WUNI	WORCESTER MA	DTVPLN -DTVPI072

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	WUVP-TV	VINELAND NJ	389.5	CP	BPCDT -20080328AIW
29	WUVP-TV	VINELAND NJ	389.5	PLN	DTVPLN -DTVPI080
29	WFME-TV	WEST MILFORD NJ	272.4	LIC	BLEDT -20040712ACP
29	WFME-TV	WEST MILFORD NJ	272.4	PLN	DTVPLN -DTVPI081
29	WKTV	UTICA NY	276.9	LIC	BLCDT -20060630ACL
29	WKTV	UTICA NY	276.9	PLN	DTVPLN -DTVPI085
30	WBZ-TV	BOSTON MA	39.4	PLN	DTVPLN -DTVPI110
30	WBZ-DT	BOSTON MA	39.4	APP	USERRECORD-01

Total scenarios = 4

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 5 of 16)

Result key: 5  
Scenario 1 Affected station 3  
Before Analysis

Results for: 29A MA WORCESTER DTVPLN DTVP1072 PLN  
HAAT 453.0 m, ATV ERP 200.0 kW  
POPULATION AREA (sq km)  
within Noise Limited Contour 7979159 29723.0  
not affected by terrain losses 7659029 27857.0  
lost to NTSC IX 0 0.0  
lost to additional IX by ATV 681674 3087.2  
lost to ATV IX only 681674 3087.2  
lost to all IX 681674 3087.2

Potential Interfering Stations Included in above Scenario 1

29A NJ WEST MILFORD BLEDT 20040712ACP LIC  
29A NY UTICA BLCDT 20060630ACL LIC  
30A MA BOSTON DTVPLN DTVP1110 PLN

After Analysis

Results for: 29A MA WORCESTER DTVPLN DTVP1072 PLN  
HAAT 453.0 m, ATV ERP 200.0 kW  
POPULATION AREA (sq km)  
within Noise Limited Contour 7979159 29723.0  
not affected by terrain losses 7659029 27857.0  
lost to NTSC IX 0 0.0  
lost to additional IX by ATV 700076 3183.9  
lost to ATV IX only 700076 3183.9  
lost to all IX 700076 3183.9

Potential Interfering Stations Included in above Scenario 1

29A NJ WEST MILFORD BLEDT 20040712ACP LIC  
29A NY UTICA BLCDT 20060630ACL LIC  
30A MA BOSTON USERRECORD01 APP

Percent new IX = 0.2637%

Worst case new IX 0.2637% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	WFUT-TV	NEWARK NJ	DTVPLN	-DTVP1113

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	WUVP-TV	VINELAND NJ	132.3	CP	BPCDT	-20080328AIW
29	WUVP-TV	VINELAND NJ	132.3	PLN	DTVPLN	-DTVP1080
29	WFME-TV	WEST MILFORD NJ	22.9	LIC	BLEDT	-20040712ACP
29	WFME-TV	WEST MILFORD NJ	22.9	PLN	DTVPLN	-DTVP1081
30	WBZ-TV	BOSTON MA	286.6	PLN	DTVPLN	-DTVP1110
30	WSKA	CORNING NY	300.0	PLN	DTVPLN	-DTVP1114

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 6 of 16)

30	WSKA	CORNING NY	300.0	LIC	BLEDT	-20060705ABL
30	WUTR	UTICA NY	283.2	LIC	BLCDT	-20040217ADC
30	WUTR	UTICA NY	283.2	PLN	DTVPLN	-DTVP1115
30	WGCB-TV	RED LION PA	239.5	LIC	BLCDT	-20050615AAB
30	WGCB-TV	RED LION PA	239.5	PLN	DTVPLN	-DTVP1119
30	WNVF	GOLDVEIN VA	378.2	LIC	BLEDT	-20031230AAR
30	WNVF	GOLDVEIN VA	378.2	PLN	DTVPLN	-DTVP1125
31	WTIC-TV	HARTFORD CT	142.8	CP MOD	BMPCDT	-20040616AAM
31	WTIC-TV	HARTFORD CT	142.8	PLN	DTVPLN	-DTVP1133
31	WPPX	WILMINGTON DE	132.3	LIC	BLCDT	-20031203AFL
31	WPPX	WILMINGTON DE	132.3	PLN	DTVPLN	-DTVP1134
31	WPXN-TV	NEW YORK NY	5.4	PLN	DTVPLN	-DTVP1155
30	WBZ-DT	BOSTON MA	286.6	APP	USERRECORD-01	

Total scenarios = 64

Result key: 9

Scenario 1 Affected station 4  
Before Analysis

Results for: 30A NJ NEWARK DTVPLN DTVP1113 PLN  
HAAT 321.0 m, ATV ERP 188.7 kW  
POPULATION AREA (sq km)  
within Noise Limited Contour 17809611 18857.6  
not affected by terrain losses 17670891 17876.8  
lost to NTSC IX 0 0.0  
lost to additional IX by ATV 513850 1424.8  
lost to ATV IX only 513850 1424.8  
lost to all IX 513850 1424.8

Potential Interfering Stations Included in above Scenario 1

29A NJ VINELAND BPCDT 20080328AIW CP  
29A NJ WEST MILFORD BLEDT 20040712ACP LIC  
30A NY CORNING DTVPLN DTVP1114 PLN  
30A NY UTICA BLCDT 20040217ADC LIC  
30A PA RED LION BLCDT 20050615AAB LIC  
31A DE WILMINGTON BLCDT 20031203AFL LIC  
31A NY NEW YORK DTVPLN DTVP1155 PLN  
30A MA BOSTON DTVPLN DTVP1110 PLN

After Analysis

Results for: 30A NJ NEWARK DTVPLN DTVP1113 PLN  
HAAT 321.0 m, ATV ERP 188.7 kW  
POPULATION AREA (sq km)  
within Noise Limited Contour 17809611 18857.6  
not affected by terrain losses 17670891 17876.8  
lost to NTSC IX 0 0.0  
lost to additional IX by ATV 513855 1428.9  
lost to ATV IX only 513855 1428.9  
lost to all IX 513855 1428.9

Potential Interfering Stations Included in above Scenario 1

29A NJ VINELAND BPCDT 20080328AIW CP  
29A NJ WEST MILFORD BLEDT 20040712ACP LIC  
30A NY CORNING DTVPLN DTVP1114 PLN  
30A NY UTICA BLCDT 20040217ADC LIC  
30A PA RED LION BLCDT 20050615AAB LIC  
31A DE WILMINGTON BLCDT 20031203AFL LIC



**Table 1 WBZ-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 7 of 16)

31A NY NEW YORK DTVPLN DTVF1155 PLN  
30A MA BOSTON USERRECORD01 APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	WUTR	UTICA NY	BLCDDT	-20040217ADC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	WKTV	UTICA NY	19.7	LIC	BLCDDT	-20060630ACL
29	WKTV	UTICA NY	19.7	PLN	DTVPLN	-DTVPI1085
30	WBZ-TV	BOSTON MA	334.7	PLN	DTVPLN	-DTVPI1110
30	WFUT-TV	NEWARK NJ	283.2	PLN	DTVPLN	-DTVPI1113
30	WSKA	CORNING NY	191.3	PLN	DTVPLN	-DTVPI1114
30	WSKA	CORNING NY	191.3	LIC	BLEDT	-20060705ABL
30	WGCN-TV	RED LION PA	378.7	LIC	BLCDDT	-20050615AAB
30	WGCN-TV	RED LION PA	378.7	PLN	DTVPLN	-DTVPI1119
30	WBZ-DT	BOSTON MA	334.7	APP	USERRECORD-01	

Total scenarios = 4

Result key: 73

Scenario 1 Affected station 5

Before Analysis

Results for: 30A NY UTICA BLCDDT 20040217ADC LIC

HAAT	227.0 m, ATV ERP	50.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			525381	14182.7
not affected by terrain losses			490592	12725.8
lost to NTSC IX			0	0.0
lost to additional IX by ATV			41049	2193.4
lost to ATV IX only			41049	2193.4
lost to all IX			41049	2193.4

Potential Interfering Stations Included in above Scenario 1

29A NY UTICA	BLCDDT	20060630ACL	LIC
30A NJ NEWARK	DTVPLN	DTVPI1113	PLN
30A NY CORNING	DTVPLN	DTVPI1114	PLN
30A MA BOSTON	DTVPLN	DTVPI1110	PLN

After Analysis

Results for: 30A NY UTICA BLCDDT 20040217ADC LIC

HAAT	227.0 m, ATV ERP	50.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			525381	14182.7
not affected by terrain losses			490592	12725.8
lost to NTSC IX			0	0.0

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 8 of 16)

lost to additional IX by ATV	41049	2193.4
lost to ATV IX only	41049	2193.4
lost to all IX	41049	2193.4

Potential Interfering Stations Included in above Scenario 1

29A NY UTICA	BLCDDT	20060630ACL	LIC
30A NJ NEWARK	DTVPLN	DTVPI1113	PLN
30A NY CORNING	DTVPLN	DTVPI1114	PLN
30A MA BOSTON	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

#####

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	WUTR	UTICA NY	DTVPLN	-DTVPI1115

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	WKTV	UTICA NY	19.7	LIC	BLCDDT	-20060630ACL
29	WKTV	UTICA NY	19.7	PLN	DTVPLN	-DTVPI1085
30	WBZ-TV	BOSTON MA	334.7	PLN	DTVPLN	-DTVPI1110
30	WFUT-TV	NEWARK NJ	283.2	PLN	DTVPLN	-DTVPI1113
30	WSKA	CORNING NY	191.3	PLN	DTVPLN	-DTVPI1114
30	WSKA	CORNING NY	191.3	LIC	BLEDT	-20060705ABL
30	WGCN-TV	RED LION PA	378.7	LIC	BLCDDT	-20050615AAB
30	WGCN-TV	RED LION PA	378.7	PLN	DTVPLN	-DTVPI1119
30	WBZ-DT	BOSTON MA	334.7	APP	USERRECORD-01	

Total scenarios = 4

Result key: 77

Scenario 1 Affected station 6

Before Analysis

Results for: 30A NY UTICA DTVPLN DTVPI1115 PLN

HAAT	227.0 m, ATV ERP	50.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			525381	14182.7
not affected by terrain losses			490592	12725.8
lost to NTSC IX			0	0.0
lost to additional IX by ATV			41049	2193.4
lost to ATV IX only			41049	2193.4
lost to all IX			41049	2193.4

Potential Interfering Stations Included in above Scenario 1

29A NY UTICA	BLCDDT	20060630ACL	LIC
30A NJ NEWARK	DTVPLN	DTVPI1113	PLN
30A NY CORNING	DTVPLN	DTVPI1114	PLN
30A MA BOSTON	DTVPLN	DTVPI1110	PLN

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 9 of 16)

After Analysis

Results for: 30A NY UTICA DTVP LN DTVP1115 PLN  
HAAT 227.0 m, ATV ERP 50.0 kW  
POPULATION AREA (sq km)  
within Noise Limited Contour 525381 14182.7  
not affected by terrain losses 490592 12725.8  
lost to NTSC IX 0 0.0  
lost to additional IX by ATV 41049 2193.4  
lost to ATV IX only 41049 2193.4  
lost to all IX 41049 2193.4

Potential Interfering Stations Included in above Scenario 1

29A NY UTICA BLC DT 20060630ACL LIC  
30A NJ NEWARK DTVP LN DTVP1113 PLN  
30A NY CORNING DTVP LN DTVP1114 PLN  
30A MA BOSTON USERRECORD01 APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

#####

Analysis of Interference to Affected Station 7

Analysis of current record

Channel Call City/State Application Ref. No.  
30 WBVT-CA BURLINGTON VT BMJPTTA -20040310ACX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	WCAX-TV	BURLINGTON VT	34.6	PLN	DTVP LN -DTVP0829
22	WCAX-TV	BURLINGTON VT	34.7	CP	BPCDT -20080317AEE
23	WNPI-TV	NORWOOD NY	145.5	LIC	BLEDT -20050715ABZ
23	WNPI-TV	NORWOOD NY	145.5	PLN	DTVP LN -DTVP0856
30	WVIT	NEW BRITAIN CT	343.2	LIC	BLCT -19791113LC
30	WBZ-TV	BOSTON MA	311.8	LIC	BLC DT -20060420ABG
30	WBZ-TV	BOSTON MA	311.8	PLN	DTVP LN -DTVP1110
30	WUTR	UTICA NY	248.4	LIC	BLC DT -20040217ADC
30	WUTR	UTICA NY	248.4	PLN	DTVP LN -DTVP1115
32	WETK	BURLINGTON VT	34.8	LIC	BLEDT -20061011ADW
32	WETK	BURLINGTON VT	34.8	PLN	DTVP LN -DTVP1203
32	WETK	BURLINGTON VT	34.8	APP	BPEDT -20050118AKO
38	WCFE-TV	PLATTSBURGH NY	65.5	LIC	BLEDT -20050920ABC
38	WCFE-TV	PLATTSBURGH NY	65.5	PLN	DTVP LN -DTVP1375
38	WCFE-TV	PLATTSBURGH NY	65.5	CP	BPEDT -20080130AJH
44	WFFF-TV	BURLINGTON VT	34.7	CP MOD	BMPCT -19960212KG
30	WBZ-DT	BOSTON MA	311.8	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 10 of 16)

Channel Call City/State Application Ref. No.  
30 WBVT-CA BURLINGTON VT BLTTL -19990809JD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	WCAX-TV	BURLINGTON VT	15.3	PLN	DTVP LN -DTVP0829
22	WCAX-TV	BURLINGTON VT	15.2	CP	BPCDT -20080317AEE
30	WVIT	NEW BRITAIN CT	305.9	LIC	BLCT -19791113LC
30	WBZ-TV	BOSTON MA	276.3	LIC	BLC DT -20060420ABG
30	WBZ-TV	BOSTON MA	276.3	PLN	DTVP LN -DTVP1110
30	WUTR	UTICA NY	228.4	LIC	BLC DT -20040217ADC
30	WUTR	UTICA NY	228.4	PLN	DTVP LN -DTVP1115
31	WNNE	HARTFORD VT	119.4	LIC	BLCT -20040212ACU
32	WETK	BURLINGTON VT	15.4	LIC	BLEDT -20061011ADW
32	WETK	BURLINGTON VT	15.4	PLN	DTVP LN -DTVP1203
32	WETK	BURLINGTON VT	15.4	APP	BPEDT -20050118AKO
38	WCFE-TV	PLATTSBURGH NY	76.7	LIC	BLEDT -20050920ABC
38	WCFE-TV	PLATTSBURGH NY	76.7	PLN	DTVP LN -DTVP1375
38	WCFE-TV	PLATTSBURGH NY	76.7	CP	BPEDT -20080130AJH
44	WFFF-TV	BURLINGTON VT	15.3	CP MOD	BMPCT -19960212KG
30	WBZ-DT	BOSTON MA	276.3	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 9

Analysis of current record

Channel Call City/State Application Ref. No.  
31 WTIC-TV HARTFORD CT BMPCDT -20040616AAM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
30	WBZ-TV	BOSTON MA	148.0	PLN	DTVP LN -DTVP1110
30	WFUT-TV	NEWARK NJ	142.8	PLN	DTVP LN -DTVP1113
31	WPPX	WILMINGTON DE	273.7	LIC	BLC DT -20031203AFL
31	WPPX	WILMINGTON DE	273.7	PLN	DTVP LN -DTVP1134
31	WFXT	BOSTON MA	149.0	LIC	BLC DT -19990507KI
31	WFXT	BOSTON MA	149.0	PLN	DTVP LN -DTVP1146
31	WFXT	BOSTON MA	149.0	CP MOD	BMPCT -20080307ABR
31	WPXN-TV	NEW YORK NY	148.0	PLN	DTVP LN -DTVP1155
32	WBPX	BOSTON MA	148.8	LIC	BLC DT -20040723ACG
32	WBPX	BOSTON MA	148.8	PLN	DTVP LN -DTVP1183
30	WBZ-DT	BOSTON MA	148.0	APP	USERRECORD-01

Total scenarios = 12

Result key: 81  
Scenario 1 Affected station 9  
Before Analysis

Results for: 31A CT HARTFORD BMPCDT 20040616AAM CP  
HAAT 506.0 m, ATV ERP 380.0 kW  
POPULATION AREA (sq km)  
within Noise Limited Contour 4839797 31151.0  
not affected by terrain losses 4354143 27717.9  
lost to NTSC IX 0 0.0

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 11 of 16)

lost to additional IX by ATV	612441	2954.7
lost to ATV IX only	612441	2954.7
lost to all IX	612441	2954.7
Potential Interfering Stations Included in above Scenario 1		
30A NJ NEWARK	DTVPLN	DTVP1113 PLN
31A DE WILMINGTON	BLCDT	20031203AFL LIC
31A MA BOSTON	BLCDT	19990507KI LIC
31A NY NEW YORK	DTVPLN	DTVP1155 PLN
32A MA BOSTON	BLCDT	20040723ACG LIC
30A MA BOSTON	DTVPLN	DTVP1110 PLN
After Analysis		
Results for: 31A CT HARTFORD	BMPCDT	20040616AAM CP
HAAT 506.0 m, ATV ERP 380.0 kW		
within Noise Limited Contour	POPULATION	AREA (sq km)
not affected by terrain losses	4839797	31151.0
lost to NTSC IX	4354143	27717.9
lost to additional IX by ATV	0	0.0
lost to ATV IX only	612441	2954.7
lost to all IX	612441	2954.7
Potential Interfering Stations Included in above Scenario 1		
30A NJ NEWARK	DTVPLN	DTVP1113 PLN
31A DE WILMINGTON	BLCDT	20031203AFL LIC
31A MA BOSTON	BLCDT	19990507KI LIC
31A NY NEW YORK	DTVPLN	DTVP1155 PLN
32A MA BOSTON	BLCDT	20040723ACG LIC
30A MA BOSTON	USERRECORD01	APP
Percent new IX = 0.0000%		
Worst case new IX 0.0000% Scenario 1		
#####		
Analysis of Interference to Affected Station 10		
Analysis of current record		
Channel	Call	City/State Application Ref. No.
31	WTIC-TV	HARTFORD CT DTVPLN -DTVP1133
Stations Potentially Affecting This Station		
Chan	Call	City/State Dist(km) Status Application Ref. No.
30	WBZ-TV	BOSTON MA 148.0 PLN DTVPLN -DTVP1110
30	WFUT-TV	NEWARK NJ 142.8 PLN DTVPLN -DTVP1113
31	WPPX	WILMINGTON DE 273.7 LIC BLCDT -20031203AFL
31	WPPX	WILMINGTON DE 273.7 PLN DTVPLN -DTVP1134
31	WFXT	BOSTON MA 149.0 LIC BLCDT -19990507KI
31	WFXT	BOSTON MA 149.0 PLN DTVPLN -DTVP1146
31	WFXT	BOSTON MA 149.0 CP MOD BMPCDT -20080307ABR
31	WPXN-TV	NEW YORK NY 148.0 PLN DTVPLN -DTVP1155
32	WBFX	BOSTON MA 148.8 LIC BLCDT -20040723ACG
32	WBFX	BOSTON MA 148.8 PLN DTVPLN -DTVP1183
30	WBZ-DT	BOSTON MA 148.0 APP USERRECORD-01

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 12 of 16)

Total scenarios = 12			
Result key:	93		
Scenario	1	Affected station	10
Before Analysis			
Results for: 31A CT HARTFORD	DTVPLN	DTVP1133	PLN
HAAT 506.0 m, ATV ERP 380.0 kW			
within Noise Limited Contour	POPULATION	AREA (sq km)	
not affected by terrain losses	4839797	31151.0	
lost to NTSC IX	4354143	27717.9	
lost to additional IX by ATV	0	0.0	
lost to ATV IX only	612441	2954.7	
lost to all IX	612441	2954.7	
Potential Interfering Stations Included in above Scenario 1			
30A NJ NEWARK	DTVPLN	DTVP1113	PLN
31A DE WILMINGTON	BLCDT	20031203AFL	LIC
31A MA BOSTON	BLCDT	19990507KI	LIC
31A NY NEW YORK	DTVPLN	DTVP1155	PLN
32A MA BOSTON	BLCDT	20040723ACG	LIC
30A MA BOSTON	DTVPLN	DTVP1110	PLN
After Analysis			
Results for: 31A CT HARTFORD	DTVPLN	DTVP1133	PLN
HAAT 506.0 m, ATV ERP 380.0 kW			
within Noise Limited Contour	POPULATION	AREA (sq km)	
not affected by terrain losses	4839797	31151.0	
lost to NTSC IX	4354143	27717.9	
lost to additional IX by ATV	0	0.0	
lost to ATV IX only	612441	2954.7	
lost to all IX	612441	2954.7	
Potential Interfering Stations Included in above Scenario 1			
30A NJ NEWARK	DTVPLN	DTVP1113	PLN
31A DE WILMINGTON	BLCDT	20031203AFL	LIC
31A MA BOSTON	BLCDT	19990507KI	LIC
31A NY NEW YORK	DTVPLN	DTVP1155	PLN
32A MA BOSTON	BLCDT	20040723ACG	LIC
30A MA BOSTON	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.
31	WFXT	BOSTON MA	BLCDT -19990507KI

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 13 of 16)

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
30	WBZ-TV	BOSTON MA	1.7	PLN	DTVPLN	-DTVPl110
31	WTIC-TV	HARTFORD CT	149.0	CP MOD	BMPCDT	-20040616AAM
31	WTIC-TV	HARTFORD CT	149.0	PLN	DTVPLN	-DTVPl133
31	WPPX	WILMINGTON DE	419.7	LIC	BLCDT	-20031203AFL
31	WPPX	WILMINGTON DE	419.7	PLN	DTVPLN	-DTVPl134
31	WPXN-TV	NEW YORK NY	292.2	PLN	DTVPLN	-DTVPl155
32	WBPX	BOSTON MA	0.6	LIC	BLCDT	-20040723ACG
32	WBPX	BOSTON MA	0.6	PLN	DTVPLN	-DTVPl183
30	WBZ-DT	BOSTON MA	1.7	APP	USERRECORD-01	

Total scenarios = 4

Result key: 105  
Scenario 1 Affected station 11  
Before Analysis

Results for: 31A MA BOSTON BLCDT 19990507KI LIC

HAAT 330.0 m, ATV ERP 78.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	6474673	18947.4
not affected by terrain losses	6443261	18697.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	543491	2173.8
lost to ATV IX only	543491	2173.8
lost to all IX	543491	2173.8

Potential Interfering Stations Included in above Scenario 1

31A CT HARTFORD	BMPCDT	20040616AAM	CP
31A NY NEW YORK	DTVPLN	DTVPl155	PLN
32A MA BOSTON	BLCDT	20040723ACG	LIC
30A MA BOSTON	DTVPLN	DTVPl110	PLN

## After Analysis

Results for: 31A MA BOSTON BLCDT 19990507KI LIC

HAAT 330.0 m, ATV ERP 78.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	6474673	18947.4
not affected by terrain losses	6443261	18697.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	545593	2198.0
lost to ATV IX only	545593	2198.0
lost to all IX	545593	2198.0

Potential Interfering Stations Included in above Scenario 1

31A CT HARTFORD	BMPCDT	20040616AAM	CP
31A NY NEW YORK	DTVPLN	DTVPl155	PLN
32A MA BOSTON	BLCDT	20040723ACG	LIC
30A MA BOSTON	USERRECORD01		APP

Percent new IX = 0.0356%

Worst case new IX 0.0356% Scenario 1

#####

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**

(worst-case scenarios shown page 14 of 16)

## Analysis of Interference to Affected Station 12

## Analysis of current record

Channel	Call	City/State	Application	Ref. No.
31	WFXT	BOSTON MA	DTVPLN	-DTVPl146

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
30	WBZ-TV	BOSTON MA	1.7	PLN	DTVPLN	-DTVPl110
31	WTIC-TV	HARTFORD CT	149.0	CP MOD	BMPCDT	-20040616AAM
31	WTIC-TV	HARTFORD CT	149.0	PLN	DTVPLN	-DTVPl133
31	WPPX	WILMINGTON DE	419.7	LIC	BLCDT	-20031203AFL
31	WPPX	WILMINGTON DE	419.7	PLN	DTVPLN	-DTVPl134
31	WPXN-TV	NEW YORK NY	292.2	PLN	DTVPLN	-DTVPl155
32	WBPX	BOSTON MA	0.6	LIC	BLCDT	-20040723ACG
32	WBPX	BOSTON MA	0.6	PLN	DTVPLN	-DTVPl183
30	WBZ-DT	BOSTON MA	1.7	APP	USERRECORD-01	

Total scenarios = 4

Result key: 109  
Scenario 1 Affected station 12  
Before Analysis

Results for: 31A MA BOSTON DTVPLN DTVPl146 PLN

HAAT 341.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	7191047	29533.7
not affected by terrain losses	7138390	28662.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	226651	2561.7
lost to ATV IX only	226651	2561.7
lost to all IX	226651	2561.7

Potential Interfering Stations Included in above Scenario 1

31A CT HARTFORD	BMPCDT	20040616AAM	CP
31A NY NEW YORK	DTVPLN	DTVPl155	PLN
32A MA BOSTON	BLCDT	20040723ACG	LIC
30A MA BOSTON	DTVPLN	DTVPl110	PLN

## After Analysis

Results for: 31A MA BOSTON DTVPLN DTVPl146 PLN

HAAT 341.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	7191047	29533.7
not affected by terrain losses	7138390	28662.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	236475	2585.9
lost to ATV IX only	236475	2585.9
lost to all IX	236475	2585.9

Potential Interfering Stations Included in above Scenario 1

31A CT HARTFORD	BMPCDT	20040616AAM	CP
31A NY NEW YORK	DTVPLN	DTVPl155	PLN
32A MA BOSTON	BLCDT	20040723ACG	LIC

**Table 1 WBZ-DT OET Bulletin 69 Interference Study**  
(worst-case scenarios shown page 15 of 16)

30A MA BOSTON USERRECORD01 APP

Percent new IX = 0.1421%

Worst case new IX 0.1421% Scenario 1

#####

Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
31	WFXT	BOSTON MA	BMPCDT	-20080307ABR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
30	WBZ-TV	BOSTON MA	1.7	PLN	DTVPLN	-DTVP1110
31	WTIC-TV	HARTFORD CT	149.0	CP MOD	BMPCDT	-20040616AAM
31	WTIC-TV	HARTFORD CT	149.0	PLN	DTVPLN	-DTVP1133
31	WPPX	WILMINGTON DE	419.6	LIC	BLCDT	-20031203AFL
31	WPPX	WILMINGTON DE	419.6	PLN	DTVPLN	-DTVP1134
31	WPXN-TV	NEW YORK NY	292.2	PLN	DTVPLN	-DTVP1155
32	WBFX	BOSTON MA	0.7	LIC	BLCDT	-20040723ACG
32	WBFX	BOSTON MA	0.7	PLN	DTVPLN	-DTVP1183
30	WBZ-DT	BOSTON MA	1.7	APP	USERRECORD-01	

Total scenarios = 4

Result key: 113

Scenario 1 Affected station 13

Before Analysis

Results for: 31A MA BOSTON BMPCDT 20080307ABR CP

HAAT	363.0 m, ATV ERP	780.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			7132589	28463.8
not affected by terrain losses			7089264	27850.7
lost to NTSC IX			0	0.0
lost to additional IX by ATV			244684	2452.7
lost to ATV IX only			244684	2452.7
lost to all IX			244684	2452.7

Potential Interfering Stations Included in above Scenario 1

31A CT HARTFORD	BMPCDT	20040616AAM	CP
31A NY NEW YORK	DTVPLN	DTVP1155	PLN
32A MA BOSTON	BLCDT	20040723ACG	LIC
30A MA BOSTON	DTVPLN	DTVP1110	PLN

After Analysis

Results for: 31A MA BOSTON BMPCDT 20080307ABR CP

HAAT	363.0 m, ATV ERP	780.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			7132589	28463.8
not affected by terrain losses			7089264	27850.7
lost to NTSC IX			0	0.0
lost to additional IX by ATV			248952	2480.9

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

lost to ATV IX only	248952	2480.9
lost to all IX	248952	2480.9

Potential Interfering Stations Included in above Scenario 1

31A CT HARTFORD	BMPCDT	20040616AAM	CP
31A NY NEW YORK	DTVPLN	DTVP1155	PLN
32A MA BOSTON	BLCDT	20040723ACG	LIC
30A MA BOSTON	USERRECORD01		APP

Percent new IX = 0.0624%

Worst case new IX 0.0624% Scenario 1

#####

Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	WBZ-DT	BOSTON MA	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	WUNI	WORCESTER MA	39.4	CP MOD	BMPCDT	-20070308AFR
29	WUNI	WORCESTER MA	39.4	PLN	DTVPLN	-DTVP1072
30	WFUT-TV	NEWARK NJ	286.6	PLN	DTVPLN	-DTVP1113
30	WUTR	UTICA NY	334.7	LIC	BLCDT	-20040217ADC
30	WUTR	UTICA NY	334.7	PLN	DTVPLN	-DTVP1115
31	WTIC-TV	HARTFORD CT	148.0	CP MOD	BMPCDT	-20040616AAM
31	WTIC-TV	HARTFORD CT	148.0	PLN	DTVPLN	-DTVP1133
31	WFXT	BOSTON MA	1.7	LIC	BLCDT	-19990507KI
31	WFXT	BOSTON MA	1.7	PLN	DTVPLN	-DTVP1146
31	WFXT	BOSTON MA	1.7	CP MOD	BMPCDT	-20080307ABR

Total scenarios = 4

Results for: 30A MA BOSTON USERRECORD01 APP

HAAT	391.0 m, ATV ERP	915.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			7571315	35308.8
not affected by terrain losses			7391390	33393.6
lost to NTSC IX			0	0.0
lost to additional IX by ATV			85677	1112.9
lost to ATV IX only			85677	1112.9
lost to all IX			85677	1112.9

Potential Interfering Stations Included in above Scenario 4

29A MA WORCESTER	DTVPLN	DTVP1072	PLN
30A NJ NEWARK	DTVPLN	DTVP1113	PLN
31A CT HARTFORD	DTVPLN	DTVP1133	PLN
31A MA BOSTON	BMPCDT	20080307ABR	CP

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**SECTION III-D - DTV Engineering****Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.**

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

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

1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:

(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	<input checked="" type="radio"/> Yes <input type="radio"/> 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.	<input type="radio"/> Yes <input type="radio"/> 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.	<input type="radio"/> Yes <input type="radio"/> 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").	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> 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.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> 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 <b>submit the Exhibit</b> called for in Item 13.	<input checked="" type="radio"/> Yes <input type="radio"/> 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.	<input checked="" type="radio"/> Yes <input type="radio"/> 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.	<input checked="" type="radio"/> Yes <input type="radio"/> 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.	<input checked="" type="radio"/> Yes <input type="radio"/> 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 30 Analog TV, if any 4
2.	Zone: <input checked="" type="radio"/> I <input type="radio"/> II <input type="radio"/> III
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 42 Minutes 18 Seconds 37 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 71 Minutes 14 Seconds 14 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Antenna Structure Registration Number: 10033433 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Antenna Location Site Elevation Above Mean Sea Level: 47 meters
6.	Overall Tower Height Above Ground Level: 395 meters
7.	Height of Radiation Center Above Ground Level: 387 meters
8.	Height of Radiation Center Above Average Terrain : 390 meters
9.	Maximum Effective Radiated Power (average power): 915 kW
10.	Antenna Specifications:

a. Manufacturer HAR    Model TAD-24UDA 5/60-MR	
b. Electrical Beam Tilt: 0.7 degrees <input type="checkbox"/> Not Applicable	
c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable	
Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).	[Exhibit 42]
d. Polarization: <input checked="" type="radio"/> Horizontal <input type="radio"/> Circular <input type="radio"/> Elliptical	
e. Directional Antenna Relative Field Values: <input checked="" type="checkbox"/> 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. <b>Exhibit required.</b>	[Exhibit 43]
11. Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if <b>Certification Checklist</b> 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?	<input checked="" type="radio"/> Yes <input type="radio"/> No [Exhibit 44]
If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.	
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 <b>Certification Checklist</b> item 3 is answered "No.")	[Exhibit 45]
13. <b>Environmental Protection Act. Submit in an Exhibit</b> the following: If <b>Certification Checklist</b> 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 <b>Certification Checklist</b> 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 <b>Certification Checklist</b> Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.	[Exhibit 46]
<b>PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.</b>	

### 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 6/11/2008	
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	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).