

# WMBC-DT, Newton, NJ, OET-69 Post-Transition Interference Analysis for DTS System (worst-case scenarios)

Percent allowed new interference: 0.500  
Percent allowed new interference to Class A: 0.500  
TW Census data selected 2000  
Post Transition Data Base Selected /export/home/cdbb/pt\_tvdb.sff

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 04-07-2009

Record Selected for Analysis (Record is a DTS)

WMBC USERRECORD-01 NEWTON NJ US  
Channel 18 ERP 1000 kW HAAT 250. m RCAMSL 313 m  
Latitude 40 -51-53 Longitude 74 -12-03  
Status APP Zone 1 Border Site number: 01  
Dir Antenna Make usr Model TFU-16GTH-R 2S Beam tilt N Ref Azimuth 0.0  
Last update Cutoff date Docket  
Comments  
Applicant

WMBC USERRECORD-01 NEWTON NJ US  
Channel 18 ERP 150.0 kW HAAT 257. m RCAMSL 271.5 m  
Latitude 40 -45-22 Longitude 73 -59-12  
Status APP Zone 1 Border Site number: 02  
Dir Antenna Make usr Model ETU-P2L3-CH18 Beam tilt N Ref Azimuth 100.0  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

Facility (site # 02) meets maximum height/power limits

Site number	1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	199.809	189.2	73.3	
45.0	9.900	281.0	64.3	
90.0	55.696	290.7	74.2	
135.0	28.056	297.4	71.0	
180.0	95.481	261.1	74.8	
225.0	277.202	189.4	75.1	
270.0	876.096	234.4	85.8	
315.0	775.280	255.8	87.5	

Site number	2			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	0.160	236.4	40.2	
45.0	1.854	257.6	54.1	
90.0	112.575	259.8	75.6	
135.0	3.073	259.4	56.9	
180.0	0.554	256.8	47.8	
225.0	0.128	270.9	40.8	
270.0	0.913	258.0	50.5	
315.0	0.012	256.4	27.7	

Evaluation toward Class A Stations from site # 01

# WMBC-DT, Newton, NJ, OET-69 Post-Transition Interference Analysis for DTS System (worst-case scenarios)

Contour overlap to Class A station

WEBR-CA 17 MANHATTAN NY BLTTL 19960116JC

Evaluation toward Class A Stations from site # 02

Station inside contour of Class A station

WEBR-CA 17 MANHATTAN NY BLTTL 19960116JC

Class A Evaluation Complete

## Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance  
Distance to border = 374.8km

Proposed facility is beyond the Mexican coordination distance

Proposed station is 2.24km from AM station  
PATERSON NJ WPAT Status: L Antenna: DA2  
Proposed station is 2.24km from AM station  
NEWARK NJ WNSW Status: Antenna: DA2

## Checks to Site Number 02

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 = 395.0km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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## Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
18	WMBC	NEWTON NJ	USERRECORD01

## Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	WTSD-CA	WILMINGTON DE	126.6	LIC	BLTTA	20041206AAM
14	WTSD-CA	PHILADELPHIA PA	126.6	APP	BSTA	20060626AAQ
17	WEBR-CA	MANHATTAN NY	22.2	LIC	BLTTL	19960116JC
17	WPHL-TV	PHILADELPHIA PA	126.6	PLN	DTVPLN	DTVP0613
17	WPHL-TV	PHILADELPHIA PA	126.8	CP MOD	BMPCDT	20080619ALB
17	WPXQ	BLOCK ISLAND RI	213.9	LIC	BLCDT	20050811AAT
17	WPXQ	BLOCK ISLAND RI	213.9	PLN	DTVPLN	DTVP0615
18	WMFP	LAWRENCE MA	294.9	LIC	BLCDT	20061219ACO
18	WMFP	LAWRENCE MA	294.9	PLN	DTVPLN	DTVP0638
18	WETM-TV	ELMIRA NY	261.7	PLN	DTVPLN	DTVP0643
18	WETM-TV	ELMIRA NY	261.7	CP	BPCDT	20080307ACY
19	WRDM-CA	HARTFORD CT	156.3	APP	BDISDTA	20080804ABN
19	W19CI	BERWICK PA	169.8	APP	BDFCDTA	20070607ACI

# WMBC-DT, Newton, NJ, OET-69 Post-Transition Interference Analysis for DTS System (worst-case scenarios)

25 W25AW TRENTON NJ 81.3 LIC BLTTA 20030512ABW

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## Analysis of Interference to Affected Station 1

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
14	WTSD-CA	WILMINGTON DE	BLTTA	-20041206AAM

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	W14CM	DOVER DE	97.6	LIC	BLTT	-20010803AAR
14	WFBT	BATH NY	301.7	CP	BPCT	-19870331LW
14	WFBT	BATH NY	301.7	PLN	DTVPLN	-DTVP0502
14	WFBT	BATH NY	301.8	CP MOD	BMPCDT	-20090327AEF
14	W14CO	CLARKS SUMMIT, ETC. PA	162.9	LIC	BLTT	-20021007AAL
14	WFDC-TV	ARLINGTON VA	200.1	CP MOD	BMPCT	-20041217AXU
16	WNEP-TV	SCRANTON PA	137.7	LIC	BLCT	-2623
17	WPHL-TV	PHILADELPHIA PA	0.3	LIC	BLCT	-2611
17	WPHL-TV	PHILADELPHIA PA	0.0	PLN	DTVPLN	-DTVP0613
17	WPHL-TV	PHILADELPHIA PA	0.3	CP MOD	BMPCDT	-20080619ALB
18	WMBC-TV	NEWTON NJ	126.6	PLN	DTVPLN	-DTVP0642
18	WMBC-TV	NEWTON NJ	126.6	LIC	BLCDT	-20060803AMO
18	WMBC-TV	NEWTON NJ	126.6	CP	BPCDT	-20080620ABX
21	WHP-TV	HARRISBURG PA	142.7	PLN	DTVPLN	-DTVP0771
21	WHP-TV	HARRISBURG PA	142.7	CP MOD	BMPCDT	-20080606AEJ
22	WNJS	CAMDEN NJ	48.3	PLN	DTVPLN	-DTVP0810
22	WNJS	CAMDEN NJ	48.3	CP	BPEDT	-20080620ALH
22	WNJS	CAMDEN NJ	48.3	LIC	BLEDT	-20070611AAY
28	WNBC	NEW YORK NY	131.8	STA	BDSTA	-20041220ADE
28	WNBC	NEW YORK NY	127.6	PLN	DTVPLN	-DTVP1041
28	WNBC	NEW YORK NY	131.8	CP MOD	BMPCDT	-20080314ACO
28	WNBC	NEW YORK NY	127.6	APP	BPCDT	-20080620ADL
29	WUVP-TV	VINELAND NJ	0.0	CP MOD	BMPCDT	-20081110ADR
29	WUVP-TV	VINELAND NJ	0.0	PLN	DTVPLN	-DTVP1074
29	WFME-TV	WEST MILFORD NJ	117.4	PLN	DTVPLN	-DTVP1075
29	WFME-TV	WEST MILFORD NJ	117.4	LIC	BLEDT	-20040712ACP
29	WTFX-TV	PHILADELPHIA PA	0.2	LIC	BLCT	-2289
18	WMBC	NEWTON NJ	126.6	APP	USERRECORD	-01
18	WMBC	NEWTON NJ	132.3	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.
14	WTSD-CA	PHILADELPHIA PA	BSTA	-20060626AAQ

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	W14CM	DOVER DE	97.6	LIC	BLTT	-20010803AAR
14	WFBT	BATH NY	301.7	CP	BPCT	-19870331LW
14	WFBT	BATH NY	301.7	PLN	DTVPLN	-DTVP0502
14	WFBT	BATH NY	301.8	CP MOD	BMPCDT	-20090327AEF
14	W14CO	CLARKS SUMMIT, ETC. PA	162.9	LIC	BLTT	-20021007AAL
14	WFDC-TV	ARLINGTON VA	200.1	CP MOD	BMPCT	-20041217AXU
16	WNEP-TV	SCRANTON PA	137.7	LIC	BLCT	-2623
17	WPHL-TV	PHILADELPHIA PA	0.3	LIC	BLCT	-2611
17	WPHL-TV	PHILADELPHIA PA	0.0	PLN	DTVPLN	-DTVP0613
17	WPHL-TV	PHILADELPHIA PA	0.3	CP MOD	BMPCDT	-20080619ALB
18	WMBC-TV	NEWTON NJ	126.6	PLN	DTVPLN	-DTVP0642
18	WMBC-TV	NEWTON NJ	126.6	LIC	BLCDT	-20060803AMO
18	WMBC-TV	NEWTON NJ	126.6	CP	BPCDT	-20080620ABX
21	WHP-TV	HARRISBURG PA	142.7	PLN	DTVPLN	-DTVP0771

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21	WHP-TV	HARRISBURG PA	142.7	CP MOD	BMPCDT	-20080606AEJ
22	WNJS	CAMDEN NJ	48.3	PLN	DTVPLN	-DTVP0810
22	WNJS	CAMDEN NJ	48.3	CP	BPEDT	-20080620ALH
22	WNJS	CAMDEN NJ	48.3	LIC	BLEDT	-20070611AAY
28	WNBC	NEW YORK NY	131.8	STA	BDSTA	-20041220ADE
28	WNBC	NEW YORK NY	127.6	PLN	DTVPLN	-DTVP1041
28	WNBC	NEW YORK NY	131.8	CP MOD	BMPCDT	-20080314ACO
28	WNBC	NEW YORK NY	127.6	APP	BPCDT	-20080620ADL
29	WUVP-TV	VINELAND NJ	0.0	CP MOD	BMPCDT	-20081110ADR
29	WUVP-TV	VINELAND NJ	0.0	PLN	DTVPLN	-DTVP1074
29	WFME-TV	WEST MILFORD NJ	117.4	PLN	DTVPLN	-DTVP1075
29	WFME-TV	WEST MILFORD NJ	117.4	LIC	BLEDT	-20040712ACP
29	WTFX-TV	PHILADELPHIA PA	0.2	LIC	BLCT	-2289
18	WMBC	NEWTON NJ	126.6	APP	USERRECORD-01	
18	WMBC	NEWTON NJ	132.3	APP	USERRECORD-01	

Proposed station is beyond the site to  
nearest cell evaluation distance

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## Analysis of Interference to Affected Station 3

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	WEHR-CA	MANHATTAN NY	BLTTL -19960116JC

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	W17CD	STAMFORD CT	51.8	LIC	BLTTL -20070201BSO
17	DW44BC	BRENTWOOD NY	80.9	APP	BMPTTL -19960517UQ
17	W17CR	PLAINVIEW, ETC. NY	47.4	CP MOD	BMPTTL -20050510ACC
17	WMHT	SCHENECTADY NY	209.9	LIC	BLET -331
17	WSYR-TV	SYRACUSE NY	296.8	LIC	BLCDT -20030812ABK
17	WSYR-TV	SYRACUSE NY	296.8	PLN	DTVPLN -DTVP0608
17	WPHL-TV	PHILADELPHIA PA	132.0	LIC	BLCT -2611
17	WPHL-TV	PHILADELPHIA PA	131.8	PLN	DTVPLN -DTVP0613
17	WPHL-TV	PHILADELPHIA PA	132.0	CP MOD	BMPCDT -20080619ALB
17	WPXQ	BLOCK ISLAND RI	202.1	LIC	BLCDT -20050811AAT
17	WPXQ	BLOCK ISLAND RI	202.1	PLN	DTVPLN -DTVP0615
18	WMBC-TV	NEWTON NJ	22.2	PLN	DTVPLN -DTVP0642
18	WMBC-TV	NEWTON NJ	22.2	LIC	BLCDT -20060803AMO
18	WMBC-TV	NEWTON NJ	22.2	CP	BPCDT -20080620ABX
20	WTXX	WATERBURY CT	143.4	PLN	DTVPLN -DTVP0716
20	WTXX	WATERBURY CT	143.4	CP	BPCDT -20080328AIO
20	WTXX	WATERBURY CT	143.4	APP	BMPCDT -20080620AHG
21	WLIW	GARDEN CITY NY	45.1	APP	BMPEDT -20080620AID
21	WLIW	GARDEN CITY NY	45.1	PLN	DTVPLN -DTVP0767
21	WLIW	GARDEN CITY NY	45.1	CP	BPEDT -20080317AAQ
24	WNYE-TV	NEW YORK NY	0.9	PLN	DTVPLN -DTVP0888
24	WNYE-TV	NEW YORK NY	0.9	CP MOD	BMPEDT -20070124AAX
25	WTVE	READING PA	131.8	CP MOD	BMPCDT -20081027ACR
31	WTIC-TV	HARTFORD CT	143.4	CP MOD	BMPCDT -20080620ADP
31	WTIC-TV	HARTFORD CT	143.4	PLN	DTVPLN -DTVP1126
31	WPPX	WILMINGTON DE	131.8	LIC	BLCDT -20031203AFL
31	WPPX	WILMINGTON DE	131.8	PLN	DTVPLN -DTVP1127
31	WPPX	WILMINGTON DE	131.8	APP	BPCDT -20080620AMP
31	WPXN-TV	NEW YORK NY	0.0	CP MOD	BMPCDT -20080926ACT
31	WPXN-TV	NEW YORK NY	4.7	PLN	DTVPLN -DTVP1150
31	WPXN-TV	NEW YORK NY	4.7	LIC	BLCT -19860703KH
31	WPXN-TV	NEW YORK NY	4.6	APP	BMPCDT -20080620ALZ
31	WPXN-TV	NEW YORK NY	4.7	APP	BPCT -19961205KF
32	WXNY-LP	NEW YORK NY	3.6	LIC	BLTTL -20070615ACZ
32	WPSG	PHILADELPHIA PA	131.8	LIC	BLCDT -20021025AAS
32	WPSG	PHILADELPHIA PA	131.8	PLN	DTVPLN -DTVP1188
32	WPSG	PHILADELPHIA PA	131.8	CP	BPCDT -20080616ABE
18	WMBC	NEWTON NJ	22.2	APP	USERRECORD-01
18	WMBC	NEWTON NJ	0.9	APP	USERRECORD-01

Total scenarios = 10

# WMBC-DT, Newton, NJ, OET-69 Post-Transition Interference Analysis for DTS System (worst-case scenarios)

Result key: 1  
 Scenario 1 Affected station 3  
 Before Analysis

Results for: 17N NY MANHATTAN BLTTTL 19960116JC LIC  
 POPULATION AREA (sq km)  
 within Noise Limited Contour 6179701 593.3  
 not affected by terrain losses 6173265 589.3  
 lost to NTSC IX 5209450 508.5  
 lost to additional IX by ATV 0 0.0  
 lost to all IX 5209450 508.5

Potential Interfering Stations Included in above Scenario 1

17N NY SCHENECTADY	BLET	331	LIC
17N PA PHILADELPHIA	BLCT	2611	LIC
31N NY NEW YORK	BLCT	19860703KH	LIC
32N NY NEW YORK	BLTTTL	20070615ACZ	LIC
17A PA PHILADELPHIA	DTVPLN	DTVP0613	PLN

After Analysis

Results for: 17N NY MANHATTAN BLTTTL 19960116JC LIC  
 POPULATION AREA (sq km)  
 within Noise Limited Contour 6179701 593.3  
 not affected by terrain losses 6173265 589.3  
 lost to NTSC IX 5209450 508.5  
 lost to additional IX by ATV 0 0.0  
 lost to all IX 5209450 508.5

Potential Interfering Stations Included in above Scenario 1

17N NY SCHENECTADY	BLET	331	LIC
17N PA PHILADELPHIA	BLCT	2611	LIC
31N NY NEW YORK	BLCT	19860703KH	LIC
32N NY NEW YORK	BLTTTL	20070615ACZ	LIC
17A PA PHILADELPHIA	DTVPLN	DTVP0613	PLN

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	WPHL-TV	PHILADELPHIA PA	DTVPLN -DTVP0613

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WSYR-TV	SYRACUSE NY	329.3	LIC	BLC DT -20030812ABK
17	WSYR-TV	SYRACUSE NY	329.3	PLN	DTVPLN -DTVP0608
17	WPXQ	BLOCK ISLAND RI	332.4	LIC	BLC DT -20050811AAT
17	WPXQ	BLOCK ISLAND RI	332.4	PLN	DTVPLN -DTVP0615
18	WMBC-TV	NEWTON NJ	126.6	PLN	DTVPLN -DTVP0642
18	WMBC	NEWTON NJ	126.6	APP	USERRECORD-01
18	WMBC	NEWTON NJ	132.3	APP	USERRECORD-01

Total scenarios = 1

Result key: 11  
 Scenario 1 Affected station 4  
 Before Analysis

Results for: 17A PA PHILADELPHIA DTVPLN DTVP0613 PLN  
 HAAT 354.0 m, ATV ERP 237.1 kW  
 POPULATION AREA (sq km)  
 within Noise Limited Contour 8301758 25330.4  
 not affected by terrain losses 8188619 24814.2

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lost to NTSC IX	0	0.0
lost to additional IX by ATV	115	4.0
lost to ATV IX only	115	4.0
lost to all IX	115	4.0

Potential Interfering Stations Included in above Scenario 1

18A NJ NEWTON DTVPLN DTVP0642 PLN

After Analysis

Results for: 17A PA PHILADELPHIA DTVPLN DTVP0613 PLN  
HAAT 354.0 m, ATV ERP 237.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	8301758	25330.4
not affected by terrain losses	8188619	24814.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	115	4.0
lost to ATV IX only	115	4.0
lost to all IX	115	4.0

Potential Interfering Stations Included in above Scenario 1

18A NJ NEWTON 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.
17	WPHL-TV	PHILADELPHIA PA	BMPCDT	-20080619ALB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WSYR-TV	SYRACUSE NY	329.2	LIC	BLCDDT	-20030812ABK
17	WSYR-TV	SYRACUSE NY	329.2	PLN	DTVPLN	-DTVP0608
17	WPXQ	BLOCK ISLAND RI	332.6	LIC	BLCDDT	-20050811AAT
17	WPXQ	BLOCK ISLAND RI	332.6	PLN	DTVPLN	-DTVP0615
18	WMBC-TV	NEWTON NJ	126.8	PLN	DTVPLN	-DTVP0642
18	WMBC	NEWTON NJ	126.8	APP	USERRECORD-01	
18	WMBC	NEWTON NJ	132.5	APP	USERRECORD-01	

Total scenarios = 2

Result key: 12

Scenario 1 Affected station 5

Before Analysis

Results for: 17A PA PHILADELPHIA BMPCDT 20080619ALB CP  
HAAT 324.0 m, ATV ERP 645.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	9807514	31054.3
not affected by terrain losses	9697490	30150.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	49155	76.6
lost to ATV IX only	49155	76.6
lost to all IX	49155	76.6

Potential Interfering Stations Included in above Scenario 1

17A RI BLOCK ISLAND BLCDDT 20050811AAT LIC  
18A NJ NEWTON DTVPLN DTVP0642 PLN

After Analysis

Results for: 17A PA PHILADELPHIA BMPCDT 20080619ALB CP

# WMBC-DT, Newton, NJ, OET-69 Post-Transition Interference Analysis for DTS System (worst-case scenarios)

HAAT 324.0 m, ATV ERP 645.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	9807514	31054.3
not affected by terrain losses	9697490	30150.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	49155	76.6
lost to ATV IX only	49155	76.6
lost to all IX	49155	76.6

Potential Interfering Stations Included in above Scenario 1

17A RI BLOCK ISLAND	BLCDT	20050811AAT	LIC
18A NJ NEWTON	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 6

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	WPXQ	BLOCK ISLAND RI	BLCDT -20050811AAT

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WSYR-TV	SYRACUSE NY	384.3	LIC	BLCDT -20030812ABK
17	WSYR-TV	SYRACUSE NY	384.3	PLN	DTVPLN -DTVP0608
17	WPHL-TV	PHILADELPHIA PA	332.4	PLN	DTVPLN -DTVP0613
17	WPHL-TV	PHILADELPHIA PA	332.6	CP MOD	BMPCDT -20080619ALB
18	WMFP	LAWRENCE MA	101.6	LIC	BLCDT -20061219ACO
18	WMFP	LAWRENCE MA	101.6	PLN	DTVPLN -DTVP0638
18	WMBC-TV	NEWTON NJ	213.9	PLN	DTVPLN -DTVP0642
18	WMBC	NEWTON NJ	213.9	APP	USERRECORD-01
18	WMBC	NEWTON NJ	201.8	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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## Analysis of Interference to Affected Station 7

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	WPXQ	BLOCK ISLAND RI	DTVPLN -DTVP0615

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WSYR-TV	SYRACUSE NY	384.3	LIC	BLCDT -20030812ABK
17	WSYR-TV	SYRACUSE NY	384.3	PLN	DTVPLN -DTVP0608
17	WPHL-TV	PHILADELPHIA PA	332.4	PLN	DTVPLN -DTVP0613
17	WPHL-TV	PHILADELPHIA PA	332.6	CP MOD	BMPCDT -20080619ALB
18	WMFP	LAWRENCE MA	101.6	LIC	BLCDT -20061219ACO
18	WMFP	LAWRENCE MA	101.6	PLN	DTVPLN -DTVP0638
18	WMBC-TV	NEWTON NJ	213.9	PLN	DTVPLN -DTVP0642
18	WMBC	NEWTON NJ	213.9	APP	USERRECORD-01
18	WMBC	NEWTON NJ	201.8	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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## Analysis of Interference to Affected Station 8

# WMBC-DT, Newton, NJ, OET-69 Post-Transition Interference Analysis for DTS System (worst-case scenarios)

## Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	WMFP	LAWRENCE MA	BLCDDT	-20061219ACO

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WPXQ	BLOCK ISLAND RI	101.6	LIC	BLCDDT	-20050811AAT
17	WPXQ	BLOCK ISLAND RI	101.6	PLN	DTVPLN	-DTVP0615
18	WMBC-TV	NEWTON NJ	294.9	PLN	DTVPLN	-DTVP0642
18	WVTB	ST. JOHNSBURY VT	257.3	CP	BPEDT	-20071026ABW
18	WVTB	ST. JOHNSBURY VT	257.3	PLN	DTVPLN	-DTVP0655
18	WVTB	ST. JOHNSBURY VT	257.3	LIC	BLEDT	-20060703ABN
19	WGBH-TV	BOSTON MA	1.1	LIC	BLEDT	-20021219AAM
19	WGBH-TV	BOSTON MA	1.1	PLN	DTVPLN	-DTVP0677
18	WMBC	NEWTON NJ	294.9	APP	USERRECORD-01	
18	WMBC	NEWTON NJ	287.3	APP	USERRECORD-01	

Proposal causes no interference

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## Analysis of Interference to Affected Station 9

## Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	WMFP	LAWRENCE MA	DTVPLN	-DTVP0638

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WPXQ	BLOCK ISLAND RI	101.6	LIC	BLCDDT	-20050811AAT
17	WPXQ	BLOCK ISLAND RI	101.6	PLN	DTVPLN	-DTVP0615
18	WMBC-TV	NEWTON NJ	294.9	PLN	DTVPLN	-DTVP0642
18	WVTB	ST. JOHNSBURY VT	257.3	CP	BPEDT	-20071026ABW
18	WVTB	ST. JOHNSBURY VT	257.3	PLN	DTVPLN	-DTVP0655
18	WVTB	ST. JOHNSBURY VT	257.3	LIC	BLEDT	-20060703ABN
19	WGBH-TV	BOSTON MA	1.1	LIC	BLEDT	-20021219AAM
19	WGBH-TV	BOSTON MA	1.1	PLN	DTVPLN	-DTVP0677
18	WMBC	NEWTON NJ	294.9	APP	USERRECORD-01	
18	WMBC	NEWTON NJ	287.3	APP	USERRECORD-01	

Total scenarios = 12

Result key: 14

Scenario 1 Affected station 9  
Before Analysis

Results for: 18A MA LAWRENCE DTVPLN DTVP0638 PLN  
HAAT 357.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7180621	30626.9
not affected by terrain losses	7110397	29611.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	134154	539.9
lost to ATV IX only	134154	539.9
lost to all IX	134154	539.9

## Potential Interfering Stations Included in above Scenario 1

17A RI BLOCK ISLAND	BLCDDT	20050811AAT	LIC
18A VT ST. JOHNSBURY	BPEDT	20071026ABW	CP
19A MA BOSTON	BLEDT	20021219AAM	LIC
18A NJ NEWTON	DTVPLN	DTVP0642	PLN

## After Analysis

Results for: 18A MA LAWRENCE DTVPLN DTVP0638 PLN  
HAAT 357.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	7180621	30626.9
not affected by terrain losses	7110397	29611.6



# WMBC-DT, Newton, NJ, OET-69 Post-Transition Interference Analysis for DTS System (worst-case scenarios)

lost to NTSC IX	0	0.0
lost to additional IX by ATV	134154	539.9
lost to ATV IX only	134154	539.9
lost to all IX	134154	539.9

Potential Interfering Stations Included in above Scenario 1

17A RI BLOCK ISLAND	BLCDT	20050811AAT	LIC
18A VT ST. JOHNSBURY	BPEDT	20071026ABW	CP
19A MA BOSTON	BLEDT	20021219AAM	LIC
18A NJ NEWTON	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 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	WETM-TV	ELMIRA NY	DTVPLN	-DTVP0643

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WSYR-TV	SYRACUSE NY	116.2	LIC	BLCDT	-20030812ABK
17	WSYR-TV	SYRACUSE NY	116.2	PLN	DTVPLN	-DTVP0608
18	WMBC-TV	NEWTON NJ	261.7	PLN	DTVPLN	-DTVP0642
19	WSYT	SYRACUSE NY	102.2	PLN	DTVPLN	-DTVP0689
19	WSYT	SYRACUSE NY	102.2	LIC	BLCDT	-20050705AAM
18	WMBC	NEWTON NJ	261.7	APP	USERRECORD-01	
18	WMBC	NEWTON NJ	283.4	APP	USERRECORD-01	

Total scenarios = 4

Result key: 26

Scenario 1 Affected station 10

Before Analysis

Results for: 18A NY ELMIRA DTVPLN DTVP0643 PLN

HAAT 363.0 m, ATV ERP 90.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	714828	19558.5
not affected by terrain losses	626468	17497.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	19603	564.2
lost to ATV IX only	19603	564.2
lost to all IX	19603	564.2

Potential Interfering Stations Included in above Scenario 1

17A NY SYRACUSE	BLCDT	20030812ABK	LIC
19A NY SYRACUSE	DTVPLN	DTVP0689	PLN
18A NJ NEWTON	DTVPLN	DTVP0642	PLN

After Analysis

Results for: 18A NY ELMIRA DTVPLN DTVP0643 PLN

HAAT 363.0 m, ATV ERP 90.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	714828	19558.5
not affected by terrain losses	626468	17497.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20110	620.2
lost to ATV IX only	20110	620.2
lost to all IX	20110	620.2

Potential Interfering Stations Included in above Scenario 1

17A NY SYRACUSE	BLCDT	20030812ABK	LIC
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# WMBC-DT, Newton, NJ, OET-69 Post-Transition Interference Analysis for DTS System (worst-case scenarios)

19A NY SYRACUSE DTVPLN DTVP0689 PLN  
18A NJ NEWTON USERRECORD01 APP

Percent new IX = 0.0835%

Worst case new IX 0.0835% Scenario 1

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## Analysis of Interference to Affected Station 11

### Analysis of current record

Channel Call City/State Application Ref. No.  
18 WETM-TV ELMIRA NY BPCDT -20080307ACY

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	WSYR-TV	SYRACUSE NY	116.2	LIC	BLCDT	-20030812ABK
17	WSYR-TV	SYRACUSE NY	116.2	PLN	DTVPLN	-DTVP0608
18	WMBC-TV	NEWTON NJ	261.7	PLN	DTVPLN	-DTVP0642
19	WSYT	SYRACUSE NY	102.2	PLN	DTVPLN	-DTVP0689
19	WSYT	SYRACUSE NY	102.2	LIC	BLCDT	-20050705AAM
18	WMBC	NEWTON NJ	261.7	APP	USERRECORD-01	
18	WMBC	NEWTON NJ	283.4	APP	USERRECORD-01	

Total scenarios = 4

Result key: 30  
Scenario 1 Affected station 11  
Before Analysis

Results for: 18A NY ELMIRA BPCDT 20080307ACY CP  
HAAT 376.0 m, ATV ERP 45.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	714695	18572.3
not affected by terrain losses	633833	16345.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	26906	571.8
lost to ATV IX only	26906	571.8
lost to all IX	26906	571.8

Potential Interfering Stations Included in above Scenario 1

17A NY SYRACUSE	BLCDT	20030812ABK	LIC
19A NY SYRACUSE	DTVPLN	DTVP0689	PLN
18A NJ NEWTON	DTVPLN	DTVP0642	PLN

### After Analysis

Results for: 18A NY ELMIRA BPCDT 20080307ACY CP  
HAAT 376.0 m, ATV ERP 45.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	714695	18572.3
not affected by terrain losses	633833	16345.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	27622	627.7
lost to ATV IX only	27622	627.7
lost to all IX	27622	627.7

Potential Interfering Stations Included in above Scenario 1

17A NY SYRACUSE	BLCDT	20030812ABK	LIC
19A NY SYRACUSE	DTVPLN	DTVP0689	PLN
18A NJ NEWTON	USERRECORD01		APP

Percent new IX = 0.1180%

Worst case new IX 0.1180% Scenario 1

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# WMBC-DT, Newton, NJ, OET-69 Post-Transition Interference Analysis for DTS System (worst-case scenarios)

## Analysis of Interference to Affected Station 12

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	WRDM-CA	HARTFORD CT	BDISDTA -20080804ABN

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WMFP	LAWRENCE MA	141.7	LIC	BLCDT -20061219ACO
18	WMFP	LAWRENCE MA	141.7	PLN	DTVPLN -DTVP0638
18	WMBC-TV	NEWTON NJ	156.3	PLN	DTVPLN -DTVP0642
19	WGBH-TV	BOSTON MA	140.9	LIC	BLCDT -20021219AAM
19	WGBH-TV	BOSTON MA	140.9	PLN	DTVPLN -DTVP0677
19	WSYT	SYRACUSE NY	304.4	PLN	DTVPLN -DTVP0689
19	WSYT	SYRACUSE NY	304.4	LIC	BLCDT -20050705AAM
20	WTXX	WATERBURY CT	10.7	PLN	DTVPLN -DTVP0716
20	WTXX	WATERBURY CT	10.7	CP	BPCDT -20080328AIO
20	WTXX	WATERBURY CT	10.7	APP	BMPCDT -20080620AHG
20	WCVB-TV	BOSTON MA	140.9	LIC	BLCDT -20020102AAH
20	WCVB-TV	BOSTON MA	140.9	PLN	DTVPLN -DTVP0722
18	WMBC	NEWTON NJ	156.3	APP	USERRECORD-01
18	WMBC	NEWTON NJ	152.4	APP	USERRECORD-01

Proposal causes no interference

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## Analysis of Interference to Affected Station 13

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	WL9CI	BERWICK PA	BDFCDTA -20070607ACI

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WMBC-TV	NEWTON NJ	169.8	PLN	DTVPLN -DTVP0642
18	WETM-TV	ELMIRA NY	134.0	PLN	DTVPLN -DTVP0643
18	WETM-TV	ELMIRA NY	134.0	CP	BPCDT -20080307ACY
19	WSYT	SYRACUSE NY	208.4	PLN	DTVPLN -DTVP0689
19	WSYT	SYRACUSE NY	208.4	LIC	BLCDT -20050705AAM
19	WCAV	CHARLOTTESVILLE VA	388.0	CP MOD	BMPCDT -20080616AAY
19	WCAV	CHARLOTTESVILLE VA	388.0	PLN	DTVPLN -DTVP0699
20	WNYI	ITHACA NY	160.0	PLN	DTVPLN -DTVP0731
20	WNYI	ITHACA NY	208.4	APP	BPCDT -20080620AAS
20	WNYI	ITHACA NY	160.0	CP	BPCDT -20080331AEE
18	WMBC	NEWTON NJ	169.8	APP	USERRECORD-01
18	WMBC	NEWTON NJ	189.2	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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## Analysis of Interference to Affected Station 14

### 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	49.8	PLN	DTVPLN -DTVP0613
17	WPHL-TV	PHILADELPHIA PA	50.1	CP MOD	BMPCDT -20080619ALB
18	WMBC-TV	NEWTON NJ	81.3	PLN	DTVPLN -DTVP0642
18	WMBC-TV	NEWTON NJ	81.3	LIC	BLCDT -20060803AMO
18	WMBC-TV	NEWTON NJ	81.3	CP	BPCDT -20080620ABX
21	WLIW	GARDEN CITY NY	122.5	APP	BMPEDT -20080620AID

# WMBC-DT, Newton, NJ, OET-69 Post-Transition Interference Analysis for DTS System (worst-case scenarios)

21	WLIW	GARDEN CITY NY	122.5	PLN	DTVPLN	-DTVP0767
21	WLIW	GARDEN CITY NY	122.5	CP	BPEDT	-20080317AAQ
22	WNJS	CAMDEN NJ	58.7	PLN	DTVPLN	-DTVP0810
22	WNJS	CAMDEN NJ	58.7	CP	BPEDT	-20080620ALH
22	WNJS	CAMDEN NJ	58.7	LIC	BLEDT	-20070611AAY
24	WNYE-TV	NEW YORK NY	83.6	PLN	DTVPLN	-DTVP0888
24	WNYE-TV	NEW YORK NY	83.6	CP MOD	BMPEDT	-20070124AAX
25	WFXT	BOSTON MA	370.8	CP	BPCT	-20061130AQZ
25	WHAG-TV	HAGERSTOWN MD	284.6	LIC	BLCT	-19890327KJ
25	W25BB	PITTSTOWN NJ	35.8	LIC	BLTT	-19930325ID
25	WNYE-TV	NEW YORK NY	83.1	APP	BSTA	-20090203ACL
25	WNYE-TV	NEW YORK NY	83.1	APP	BLSTA	-20080107ACH
25	WNYE-TV	NEW YORK NY	83.1	APP	BLSTA	-20080107ACT
25	WNYE-TV	NEW YORK NY	83.1	LIC	BLET	-19920220KG
25	WCNY-TV	SYRACUSE NY	321.8	LIC	BMLEDT	-20040916ABJ
25	WCNY-TV	SYRACUSE NY	321.8	PLN	DTVPLN	-DTVP0925
25	WTVE	READING PA	49.9	CP MOD	BMPCDT	-20081027ACR
25	WTVE	READING PA	83.6	PLN	DTVPLN	-DTVP0927
25	WTVE	READING PA	101.1	LIC	BLCDT	-20040323ATZ
25	WTVR-TV	RICHMOND VA	393.3	LIC	BLCDT	-20021204ABA
25	WTVR-TV	RICHMOND VA	393.3	PLN	DTVPLN	-DTVP0931
26	KYW-TV	PHILADELPHIA PA	50.3	CP	BPCDT	-20080620ABO
26	KYW-TV	PHILADELPHIA PA	50.3	PLN	DTVPLN	-DTVP0966
27	WGTW-TV	BURLINGTON NJ	49.8	LIC	BLCDT	-20060105AAR
27	WGTW-TV	BURLINGTON NJ	49.8	PLN	DTVPLN	-DTVP0999
28	WNBC	NEW YORK NY	83.1	STA	BDSTA	-20041220ADE
28	WNBC	NEW YORK NY	78.7	PLN	DTVPLN	-DTVP1041
28	WNBC	NEW YORK NY	83.1	CP MOD	BMPCDT	-20080314ACO
28	WNBC	NEW YORK NY	78.7	APP	BPCDT	-20080620ADL
29	WUVP-TV	VINELAND NJ	49.8	CP MOD	BMPCDT	-20081110ADR
29	WUVP-TV	VINELAND NJ	49.8	PLN	DTVPLN	-DTVP1074
29	WFME-TV	WEST MILFORD NJ	71.6	PLN	DTVPLN	-DTVP1075
29	WFME-TV	WEST MILFORD NJ	71.6	LIC	BLEDT	-20040712ACP
32	WPSG	PHILADELPHIA PA	49.8	LIC	BLCDT	-20021025AAS
32	WPSG	PHILADELPHIA PA	49.8	PLN	DTVPLN	-DTVP1188
32	WPSG	PHILADELPHIA PA	49.8	CP	BPCDT	-20080616ABE
33	WCBS-TV	NEW YORK NY	78.7	APP	BMPCDT	-20080619AAZ
33	WCBS-TV	NEW YORK NY	78.7	PLN	DTVPLN	-DTVP1220
33	WCBS-TV	NEW YORK NY	83.1	CP	BPCDT	-20080523AEI
39	WLVT-TV	ALLENTOWN PA	70.8	CP MOD	BMPEDT	-20080618AAL
39	WLVT-TV	ALLENTOWN PA	70.5	PLN	DTVPLN	-DTVP1409
40	WXTV	PATERSON NJ	83.1	PLN	DTVPLN	-DTVP1442
40	WXTV	PATERSON NJ	83.1	LIC	BLCDT	-20050214AGS
18	WMBC	NEWTON NJ	81.3	APP	USERRECORD-01	
18	WMBC	NEWTON NJ	83.6	APP	USERRECORD-01	

Proposed station is beyond the site to  
nearest cell evaluation distance

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## Analysis of Interference to Affected Station 15

Analysis of current record

DTS STATION

Channel	Call	City/State	Application Ref. No.
18	WMBC	NEWTON NJ	USERRECORD-01

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	WMFP	LAWRENCE MA	287.3	LIC	BLCDT -20061219ACO
18	WMFP	LAWRENCE MA	287.3	PLN	DTVPLN -DTVP0638
18	WETM-TV	ELMIRA NY	283.4	PLN	DTVPLN -DTVP0643
18	WETM-TV	ELMIRA NY	283.4	CP	BPCDT -20080307ACY

Total scenarios = 2

Result key: 34  
Scenario 1 Affected station 15  
Before Analysis

# WMBC-DT, Newton, NJ, OET-69 Post-Transition Interference Analysis for DTS System (worst-case scenarios)

Results for: 18A NJ NEWTON USERRECORD01 APP

HAAT 250.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	17903324	21120.7
not affected by terrain losses	17731227	20286.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	333	12.1
lost to ATV IX only	333	12.1
lost to all IX	333	12.1

Potential Interfering Stations Included in above Scenario 1

18A MA LAWRENCE	BLCDT	20061219ACO	LIC
18A NY ELMIRA	DTVPLN	DTVP0643	PLN

Result key: 35  
Scenario 2 Affected station 15  
Before Analysis

Results for: 18A NJ NEWTON USERRECORD01 APP

HAAT 250.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	17903324	21120.7
not affected by terrain losses	17731227	20286.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2008	24.2
lost to ATV IX only	2008	24.2
lost to all IX	2008	24.2

Potential Interfering Stations Included in above Scenario 2

18A MA LAWRENCE	DTVPLN	DTVP0638	PLN
18A NY ELMIRA	DTVPLN	DTVP0643	PLN

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