

TECHNICAL EXHIBIT
AMENDMENT TO PENDING
DTV MAXIMIZATION APPLICATION
STATION WTVF(DT)
NASHVILLE, TENNESSEE
CH 5 22 KW 425 M

Technical Narrative

This Technical Exhibit supports an application for digital television (DTV) station WTVF(DT) for its "maximized" DTV operation at Nashville, Tennessee. This application requests a construction permit (CP) for WTVF(DT) digital television operation on channel 5 at Nashville with a non-directional effective radiated power of 22 kilowatts.

Proposed Facilities

Station WTVF(DT) proposes to operate DTV channel 5 from its authorized DTV facility. The antenna height above average terrain for the channel 5 DTV operation will be 425 meters. The proposed WTVF(DT) effective radiated power exceeds the Commission's *Appendix B* allocated maximum effective radiated power in some azimuthal directions for WTVF(DT).¹ Therefore, an allocation study was completed to ensure no prohibited interference would occur.

¹ See Seventh Report And Order And Eighth Further Notice Of Proposed Rule Making in the Matter of Advanced Television Systems and their

The proposed DTV transmitter site will be located atop the WTVF(DT) tower. Therefore, the proposed site location is:

36° 16' 05" North Latitude

86° 47' 16" West Longitude

A sketch of antenna and pertinent elevations are included as Figure 1.

The Appendix contains the vertical plane radiation pattern for the proposed antenna system.

Figure 2 is a map showing the proposed DTV predicted coverage contour and the associated DTV appendix B Noise-Limited coverage contour. The extent of the contours have been calculated using the normal FCC prediction method. The extent of the contour has been calculated using the normal FCC prediction method.

Population Served

The herein proposed WTVF(DT) "maximized" facility is predicted to serve 2,202,129 persons, post-transition based upon the 2000 Census. WTVF(DT)'s associated Appendix B facility is predicted to serve 2,087,000 persons. Therefore, the herein proposed WTVF(DT) facility would serve more than 100% of WTVF(DT)'s Appendix B population. The OET-69 studies were conducted using a cell size of 2.0 km/side and distance increments for Longley-Rice analysis of 0.5 km.

Allocation Considerations

The proposed WTVF(DT) Channel 5 facility meets the requirements of Section 73.623 of the FCC Rules concerning predicted interference to other Appendix B DTV allotments. Longley-Rice interference analyses were conducted pursuant to the requirements of the FCC Rules; OET Bulletin No. 69; and published FCC guidelines for preparation of such interference analyses. The Longley-Rice interference analyses were conducted using the software developed by du Treil, Lundin & Rackley, Inc. based on the FCC published software routines.² Stations selected for analysis were determined pursuant to the distance requirements outlined in the FCC DTV Processing Guidelines Public Notice. The results of the interference analyses for the proposed WTVF(DT) facility are summarized herein at Figure 3. As indicated therein, the proposed facility will meet the 0.5% criterion outlined in the FCC Rules and published guidelines with respect to all considered stations³, except to DTV station WMC-TV on channel 5 at Memphis, Tennessee. An interference agreement with WMC-TV has been obtained.

Radiofrequency Electromagnetic Field Exposure

The proposed WTVF(DT) facilities were evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level to workers and the general public.

² The duTreil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. A nominal grid size resolution of 2 km was employed.

³ Interference analysis results reflect the net change in interference to a given station considering the interference predicted to occur from all other stations (i.e. "masking") including the allotment facility for WTVF(DT). This properly reflects the net interference change for determining compliance with the FCC 0.5% *de minimis* standard.

The radiation center for the proposed WTVF(DT) antenna is located 348 meters above ground level. The maximum effective radiated power is 22 kilowatts. A "worst case" downward relative field value of 0.25 is assumed for the antenna's downward radiation. The calculated power density at a point 2 meters above ground level is 0.0004 mW/cm². This is less than 5 percent of the Commission's recommended limit of 0.2 mW/cm² for channel 5 for an "uncontrolled" environment.

Access to the transmitting site is restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work

over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down. The proposed WTVF(DT) operation appears to be otherwise categorically excluded from environmental processing.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner.

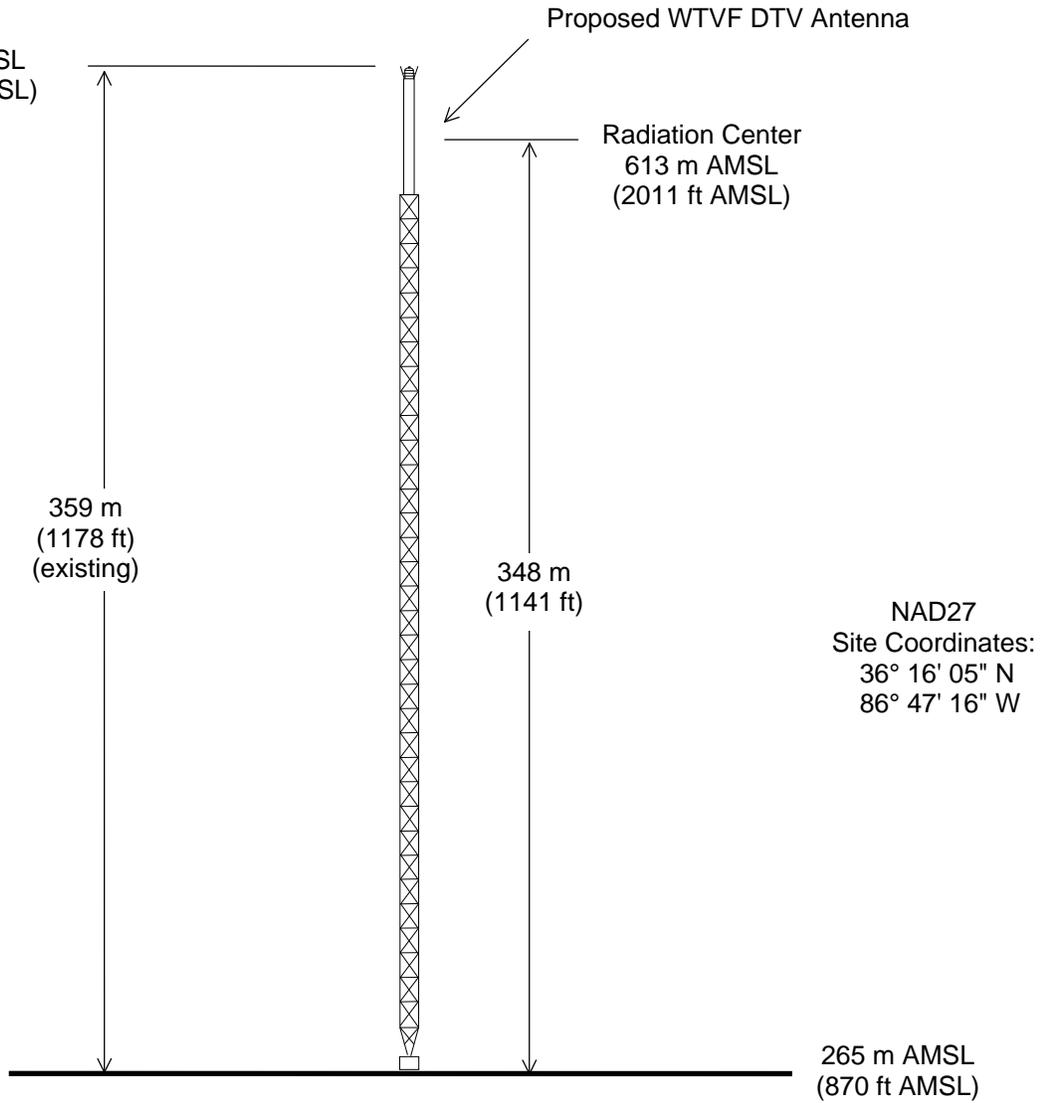
Charles Cooper

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August 25, 2008



ASRN: 1041373

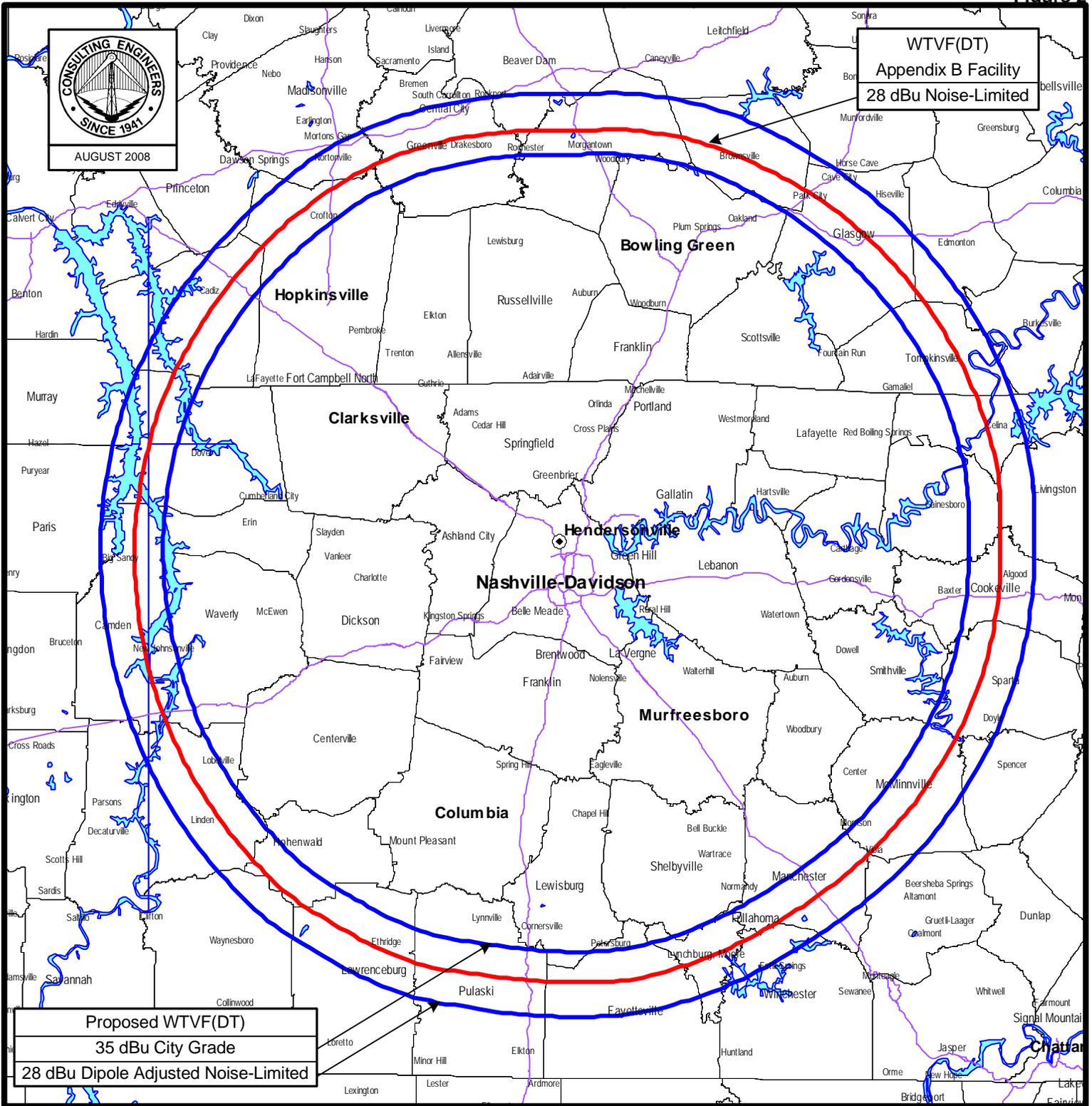


Not to Scale

ANTENNA AND SUPPORTING STRUCTURE

DTV STATION WTVF
NASHVILLE, TENNESSEE
CH 5 22 KW 425 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



PREDICTED COVERAGE CONTOURS

DTV STATION WTVF(DT)

NASHVILLE, TENNESSEE

CH 5 22 KW 425 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida

TW Census data selected 2000
Post Transition Data Base Selected /export/home/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-25-2008 Time: 13:58:50

Record Selected for Analysis

WTVF USERRECORD-01 NASHVILLE TN US
Channel 05 ERP 22. kW HAAT 429. m RCAMSL 00613 m
Latitude 036-16-05 Longitude 0086-47-16
Status APP Zone 2 Border
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 0.50 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	28.0 dBu F(50,90) (km)
0.0	22.000	367.3	118.1
45.0	22.000	431.5	123.0
90.0	22.000	457.3	125.2
135.0	22.000	454.4	125.0
180.0	22.000	457.5	125.2
225.0	22.000	462.0	125.6
270.0	22.000	412.3	121.4
315.0	22.000	389.9	119.6

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WTVF 05 NASHVILLE TN USERRECORD01

and station

Figure 3

SHORT TO: WTVF 05 NASHVILLE TN DTVPLN DTVP0028
36 -16-05 86 -47-16
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

SHORT TO: WTVF 05 NASHVILLE TN BLCT 19860702KI
036-16- 5 0086-47-16
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is 2.81km from AM station
NASHVILLE TN WLAC Status: L Antenna: DAN
Proposed station is 2.72km from AM station
NASHVILLE TN WLAC Status: Antenna: DAN

Start of Interference Analysis

Proposed Station
Channel Call City/State ARN
05 WTVF NASHVILLE TN USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WMC-TV	MEMPHIS TN	305.1	APP	BMPCDT	-20080619AJS
05	WMC-TV	MEMPHIS TN	305.1	PLN	DTVPLN	-DTVP0027
05	WMC-TV	MEMPHIS TN	305.1	CP	BPCDT	-20080327AFN
05	WCYB-TV	BRISTOL VA	419.3	PLN	DTVPLN	-DTVP0030
05	WCYB-TV	BRISTOL VA	419.3	CP	BPCDT	-20080327AFS

Analysis of Interference to Affected Station 1

Analysis of current record
Channel Call City/State Application Ref. No.
05 WMC-TV MEMPHIS TN BMPCDT -20080619AJS

Stations Potentially Affecting This Station

Figure 3

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WTVF	NASHVILLE TN	305.1	PLN	DTVPLN	-DTVP0028
05	WTVF	NASHVILLE TN	305.1	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 5A TN MEMPHIS BMPCDT 20080619AJS APP
HAAT 308.0 m, ATV ERP 34.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1922474	45516.1
not affected by terrain losses	1917146	45292.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	28824	868.3
lost to ATV IX only	28824	868.3
lost to all IX	28824	868.3

Potential Interfering Stations Included in above Scenario 1

5A TN NASHVILLE DTVPLN DTVP0028 PLN

After Analysis

Results for: 5A TN MEMPHIS BMPCDT 20080619AJS APP
HAAT 308.0 m, ATV ERP 34.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1922474	45516.1
not affected by terrain losses	1917146	45292.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	46301	1656.6
lost to ATV IX only	46301	1656.6
lost to all IX	46301	1656.6

Potential Interfering Stations Included in above Scenario 1

5A TN NASHVILLE USERRECORD01 APP

The following station failed the de minimis interference criteria.

5D TN NASHVILLE USERRECORD01
ERP 22.00 kW HAAT 429.0 m RCAMSL 613.0 m
Antenna none

Due to interference to the following station and scenario: 1

5D TN MEMPHIS BMPCDT 20080619AJS
ERP 34.50 kW HAAT 308.0 m RCAMSL 394.0 m
Antenna CDB 9999999999999999

Percent new interference from proposal: 0.9255 to BMPCDT 20080619AJS

Worst case new IX 0.9255% Scenario 1

Figure 3

Proposed station is MX
 5A TN NASHVILLE USERRECORD01 APP
 5A TN MEMPHIS BMPCDT 20080619AJS APP
 Proposal MX with BMPCDT 20080619AJS scenario 1 of station 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
05	WMC-TV	MEMPHIS TN	DTVPLN	-DTVP0027

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WTVF	NASHVILLE TN	305.1	PLN	DTVPLN	-DTVP0028
05	WTVF	NASHVILLE TN	305.1	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2
 Scenario 1 Affected station 2
 Before Analysis

Results for: 5A TN MEMPHIS DTVPLN DTVP0027 PLN
 HAAT 308.0 m, ATV ERP 7.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1616099	34104.1
not affected by terrain losses	1611534	33868.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15778	752.3
lost to ATV IX only	15778	752.3
lost to all IX	15778	752.3

Potential Interfering Stations Included in above Scenario 1

5A TN NASHVILLE DTVPLN DTVP0028 PLN

After Analysis

Results for: 5A TN MEMPHIS DTVPLN DTVP0027 PLN
 HAAT 308.0 m, ATV ERP 7.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1616099	34104.1
not affected by terrain losses	1611534	33868.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	25358	1408.5
lost to ATV IX only	25358	1408.5
lost to all IX	25358	1408.5

Potential Interfering Stations Included in above Scenario 1

Figure 3

5A TN NASHVILLE USERRECORD01 APP

The following station failed the de minimis interference criteria.

5D TN NASHVILLE USERRECORD01
ERP 22.00 kW HAAT 429.0 m RCAMSL 613.0 m
Antenna none

Due to interference to the following station and scenario: 1

5D TN MEMPHIS DTVPLN DTVP0027
ERP 7.26 kW HAAT 308.0 m RCAMSL 394.0 m
Antenna CDB 00000000084821

Percent new interference from proposal: 0.6003 to DTVPLN DTVP0027

Worst case new IX 0.6003% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
05	WMC-TV	MEMPHIS TN	BPCDT	-20080327AFN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WTVF	NASHVILLE TN	305.1	PLN	DTVPLN	-DTVP0028
05	WTVF	NASHVILLE TN	305.1	APP	USERRECORD-01	

Total scenarios = 1

Result key: 3
Scenario 1 Affected station 3
Before Analysis

Results for: 5A TN MEMPHIS BPCDT 20080327AFN CP

	POPULATION	AREA (sq km)
HAAT 309.0 m, ATV ERP 7.3 kW		
within Noise Limited Contour	1618046	34344.1
not affected by terrain losses	1612847	34116.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	16026	844.3
lost to ATV IX only	16026	844.3
lost to all IX	16026	844.3

Potential Interfering Stations Included in above Scenario 1

5A TN NASHVILLE DTVPLN DTVP0028 PLN

After Analysis

Figure 3

Results for: 5A TN MEMPHIS BPCDT 20080327AFN CP
 HAAT 309.0 m, ATV ERP 7.3 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1618046	34344.1
not affected by terrain losses	1612847	34116.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	27483	1512.5
lost to ATV IX only	27483	1512.5
lost to all IX	27483	1512.5

Potential Interfering Stations Included in above Scenario 1

5A TN NASHVILLE USERRECORD01 APP

The following station failed the de minimis interference criteria.

5D TN NASHVILLE USERRECORD01
 ERP 22.00 kW HAAT 429.0 m RCAMSL 613.0 m
 Antenna none

Due to interference to the following station and scenario: 1

5D TN MEMPHIS BPCDT 20080327AFN
 ERP 7.30 kW HAAT 309.0 m RCAMSL 394.0 m
 Antenna CDB 999999999999999

Percent new interference from proposal: 0.7175 to BPCDT 20080327AFN

Worst case new IX 0.7175% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
05	WCYB-TV	BRISTOL VA	DTVPLN	-DTVP0030

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WTVF	NASHVILLE TN	419.3	PLN	DTVPLN	-DTVP0028
05	WDTV	WESTON WV	327.1	PLN	DTVPLN	-DTVP0031
05	WDTV	WESTON WV	327.1	CP	BPCDT	-20080222AEC
05	WDTV	WESTON WV	352.7	APP	BMPCDT	-20080618ACH
05	WTVF	NASHVILLE TN	419.3	APP	USERRECORD-01	

Total scenarios = 3

Result key: 4
 Scenario 1 Affected station 4
 Before Analysis

Results for: 5A VA BRISTOL DTVPLN DTVP0030 PLN
 HAAT 680.0 m, ATV ERP 8.9 kW

Figure 3

	POPULATION	AREA (sq km)	
within Noise Limited Contour	2215776	52687.0	
not affected by terrain losses	1945354	47561.2	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	5927	117.0	
lost to ATV IX only	5927	117.0	
lost to all IX	5927	117.0	

Potential Interfering Stations Included in above Scenario 1

5A WV WESTON	DTVPLN	DTVP0031	PLN
5A TN NASHVILLE	DTVPLN	DTVP0028	PLN

After Analysis

Results for: 5A VA BRISTOL DTVPLN DTVP0030 PLN
 HAAT 680.0 m, ATV ERP 8.9 kW

	POPULATION	AREA (sq km)	
within Noise Limited Contour	2215776	52687.0	
not affected by terrain losses	1945354	47561.2	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	7601	129.2	
lost to ATV IX only	7601	129.2	
lost to all IX	7601	129.2	

Potential Interfering Stations Included in above Scenario 1

5A WV WESTON	DTVPLN	DTVP0031	PLN
5A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0863%

Result key: 5
 Scenario 2 Affected station 4
 Before Analysis

Results for: 5A VA BRISTOL DTVPLN DTVP0030 PLN
 HAAT 680.0 m, ATV ERP 8.9 kW

	POPULATION	AREA (sq km)	
within Noise Limited Contour	2215776	52687.0	
not affected by terrain losses	1945354	47561.2	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	7081	153.4	
lost to ATV IX only	7081	153.4	
lost to all IX	7081	153.4	

Potential Interfering Stations Included in above Scenario 2

5A WV WESTON	BPCDT	20080222AEC	CP
5A TN NASHVILLE	DTVPLN	DTVP0028	PLN

After Analysis

Results for: 5A VA BRISTOL DTVPLN DTVP0030 PLN
 HAAT 680.0 m, ATV ERP 8.9 kW

	POPULATION	AREA (sq km)	
within Noise Limited Contour	2215776	52687.0	

Figure 3

not affected by terrain losses	1945354	47561.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	8755	165.5
lost to ATV IX only	8755	165.5
lost to all IX	8755	165.5

Potential Interfering Stations Included in above Scenario 2

5A WV WESTON	BPCDT	20080222AEC	CP
5A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0864%

Result key: 6
Scenario 3 Affected station 4
Before Analysis

Results for: 5A VA BRISTOL DTVPLN DTVP0030 PLN
HAAT 680.0 m, ATV ERP 8.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2215776	52687.0
not affected by terrain losses	1945354	47561.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5393	109.0
lost to ATV IX only	5393	109.0
lost to all IX	5393	109.0

Potential Interfering Stations Included in above Scenario 3

5A WV WESTON	BMPCDT	20080618ACH	APP
5A TN NASHVILLE	DTVPLN	DTVP0028	PLN

After Analysis

Results for: 5A VA BRISTOL DTVPLN DTVP0030 PLN
HAAT 680.0 m, ATV ERP 8.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2215776	52687.0
not affected by terrain losses	1945354	47561.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	7067	121.1
lost to ATV IX only	7067	121.1
lost to all IX	7067	121.1

Potential Interfering Stations Included in above Scenario 3

5A WV WESTON	BMPCDT	20080618ACH	APP
5A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0863%

Worst case new IX 0.0864% Scenario 2

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Figure 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
05	WCYB-TV	BRISTOL VA	BPCDT	-20080327AFS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WTVF	NASHVILLE TN	419.3	PLN	DTVPLN	-DTVP0028
05	WDTV	WESTON WV	327.1	PLN	DTVPLN	-DTVP0031
05	WDTV	WESTON WV	327.1	CP	BPCDT	-20080222AEC
05	WDTV	WESTON WV	352.7	APP	BMPCDT	-20080618ACH
05	WTVF	NASHVILLE TN	419.3	APP	USERRECORD-01	

Total scenarios = 3

Result key: 7
Scenario 1 Affected station 5
Before Analysis

Results for: 5A VA BRISTOL BPCDT 20080327AFS CP
HAAT 743.0 m, ATV ERP 7.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2241637	53098.6
not affected by terrain losses	1970539	47891.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4075	145.3
lost to ATV IX only	4075	145.3
lost to all IX	4075	145.3

Potential Interfering Stations Included in above Scenario 1

5A WV WESTON	DTVPLN	DTVP0031	PLN
5A TN NASHVILLE	DTVPLN	DTVP0028	PLN

After Analysis

Results for: 5A VA BRISTOL BPCDT 20080327AFS CP
HAAT 743.0 m, ATV ERP 7.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2241637	53098.6
not affected by terrain losses	1970539	47891.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4576	153.4
lost to ATV IX only	4576	153.4
lost to all IX	4576	153.4

Potential Interfering Stations Included in above Scenario 1

5A WV WESTON	DTVPLN	DTVP0031	PLN
5A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0255%

Result key: 8

Figure 3

Scenario 2 Affected station 5
Before Analysis

Results for: 5A VA BRISTOL BPCDT 20080327AFS CP
HAAT 743.0 m, ATV ERP 7.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2241637	53098.6
not affected by terrain losses	1970539	47891.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6808	205.9
lost to ATV IX only	6808	205.9
lost to all IX	6808	205.9

Potential Interfering Stations Included in above Scenario 2

5A WV WESTON	BPCDT	20080222AEC	CP
5A TN NASHVILLE	DTVPLN	DTVP0028	PLN

After Analysis

Results for: 5A VA BRISTOL BPCDT 20080327AFS CP
HAAT 743.0 m, ATV ERP 7.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2241637	53098.6
not affected by terrain losses	1970539	47891.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	7309	213.9
lost to ATV IX only	7309	213.9
lost to all IX	7309	213.9

Potential Interfering Stations Included in above Scenario 2

5A WV WESTON	BPCDT	20080222AEC	CP
5A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0255%

Result key: 9

Scenario 3 Affected station 5
Before Analysis

Results for: 5A VA BRISTOL BPCDT 20080327AFS CP
HAAT 743.0 m, ATV ERP 7.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2241637	53098.6
not affected by terrain losses	1970539	47891.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4756	165.5
lost to ATV IX only	4756	165.5
lost to all IX	4756	165.5

Potential Interfering Stations Included in above Scenario 3

5A WV WESTON	BMPCDT	20080618ACH	APP
5A TN NASHVILLE	DTVPLN	DTVP0028	PLN

After Analysis

Figure 3

Results for: 5A VA BRISTOL BPCDT 20080327AFS CP
 HAAT 743.0 m, ATV ERP 7.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2241637	53098.6
not affected by terrain losses	1970539	47891.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5257	173.6
lost to ATV IX only	5257	173.6
lost to all IX	5257	173.6

Potential Interfering Stations Included in above Scenario 3

5A WV WESTON BMPCDT 20080618ACH APP
 5A TN NASHVILLE USERRECORD01 APP

Percent new IX = 0.0255%

Worst case new IX 0.0255% Scenario 2

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
05	WTVF	NASHVILLE TN	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
05	WMC-TV	MEMPHIS TN	305.1	APP	BMPCDT -20080619AJS
05	WMC-TV	MEMPHIS TN	305.1	PLN	DTVPLN -DTVP0027
05	WMC-TV	MEMPHIS TN	305.1	CP	BPCDT -20080327AFN
05	WCYB-TV	BRISTOL VA	419.3	PLN	DTVPLN -DTVP0030
05	WCYB-TV	BRISTOL VA	419.3	CP	BPCDT -20080327AFS

Total scenarios = 6

Result key: 10
 Scenario 1 Affected station 6
 Before Analysis

Results for: 5A TN NASHVILLE USERRECORD01 APP
 HAAT 429.0 m, ATV ERP 22.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2260593	47459.4
not affected by terrain losses	2236640	46056.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15320	647.7
lost to ATV IX only	15320	647.7
lost to all IX	15320	647.7

Potential Interfering Stations Included in above Scenario 1

Figure 3

5A TN MEMPHIS DTVPLN DTVP0027 PLN
5A VA BRISTOL DTVPLN DTVP0030 PLN

Result key: 11
Scenario 2 Affected station 6
Before Analysis

Results for: 5A TN NASHVILLE USERRECORD01 APP

HAAT 429.0 m, ATV ERP 22.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2260593	47459.4
not affected by terrain losses	2236640	46056.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15320	647.7
lost to ATV IX only	15320	647.7
lost to all IX	15320	647.7

Potential Interfering Stations Included in above Scenario 2

5A TN MEMPHIS DTVPLN DTVP0027 PLN
5A VA BRISTOL BPCDT 20080327AFS CP

Result key: 12
Scenario 3 Affected station 6
Before Analysis

Results for: 5A TN NASHVILLE USERRECORD01 APP

HAAT 429.0 m, ATV ERP 22.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2260593	47459.4
not affected by terrain losses	2236640	46056.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15146	647.7
lost to ATV IX only	15146	647.7
lost to all IX	15146	647.7

Potential Interfering Stations Included in above Scenario 3

5A TN MEMPHIS BPCDT 20080327AFN CP
5A VA BRISTOL DTVPLN DTVP0030 PLN

Result key: 13
Scenario 4 Affected station 6
Before Analysis

Results for: 5A TN NASHVILLE USERRECORD01 APP

HAAT 429.0 m, ATV ERP 22.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2260593	47459.4
not affected by terrain losses	2236640	46056.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15146	647.7
lost to ATV IX only	15146	647.7
lost to all IX	15146	647.7

Potential Interfering Stations Included in above Scenario 4

Figure 3

5A TN MEMPHIS BPCDT 20080327AFN CP
5A VA BRISTOL BPCDT 20080327AFS CP

Result key: 14
Scenario 5 Affected station 6
Before Analysis

Results for: 5A TN NASHVILLE USERRECORD01 APP
HAAT 429.0 m, ATV ERP 22.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2260593	47459.4
not affected by terrain losses	2236640	46056.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	34511	1683.3
lost to ATV IX only	34511	1683.3
lost to all IX	34511	1683.3

Potential Interfering Stations Included in above Scenario 5

5A TN MEMPHIS BMPCDT 20080619AJS APP
5A VA BRISTOL DTVPLN DTVP0030 PLN

Result key: 15
Scenario 6 Affected station 6
Before Analysis

Results for: 5A TN NASHVILLE USERRECORD01 APP
HAAT 429.0 m, ATV ERP 22.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2260593	47459.4
not affected by terrain losses	2236640	46056.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	34511	1683.3
lost to ATV IX only	34511	1683.3
lost to all IX	34511	1683.3

Potential Interfering Stations Included in above Scenario 6

5A TN MEMPHIS BMPCDT 20080619AJS APP
5A VA BRISTOL BPCDT 20080327AFS CP

Proposal fails scenario 5 received IX increased by 0.9%

Proposal fails scenario 6 received IX increased by 0.9%

Proposal is MX with BMPCDT 20080619AJS in scenario 5

Proposal is MX with BMPCDT 20080619AJS in scenario 6

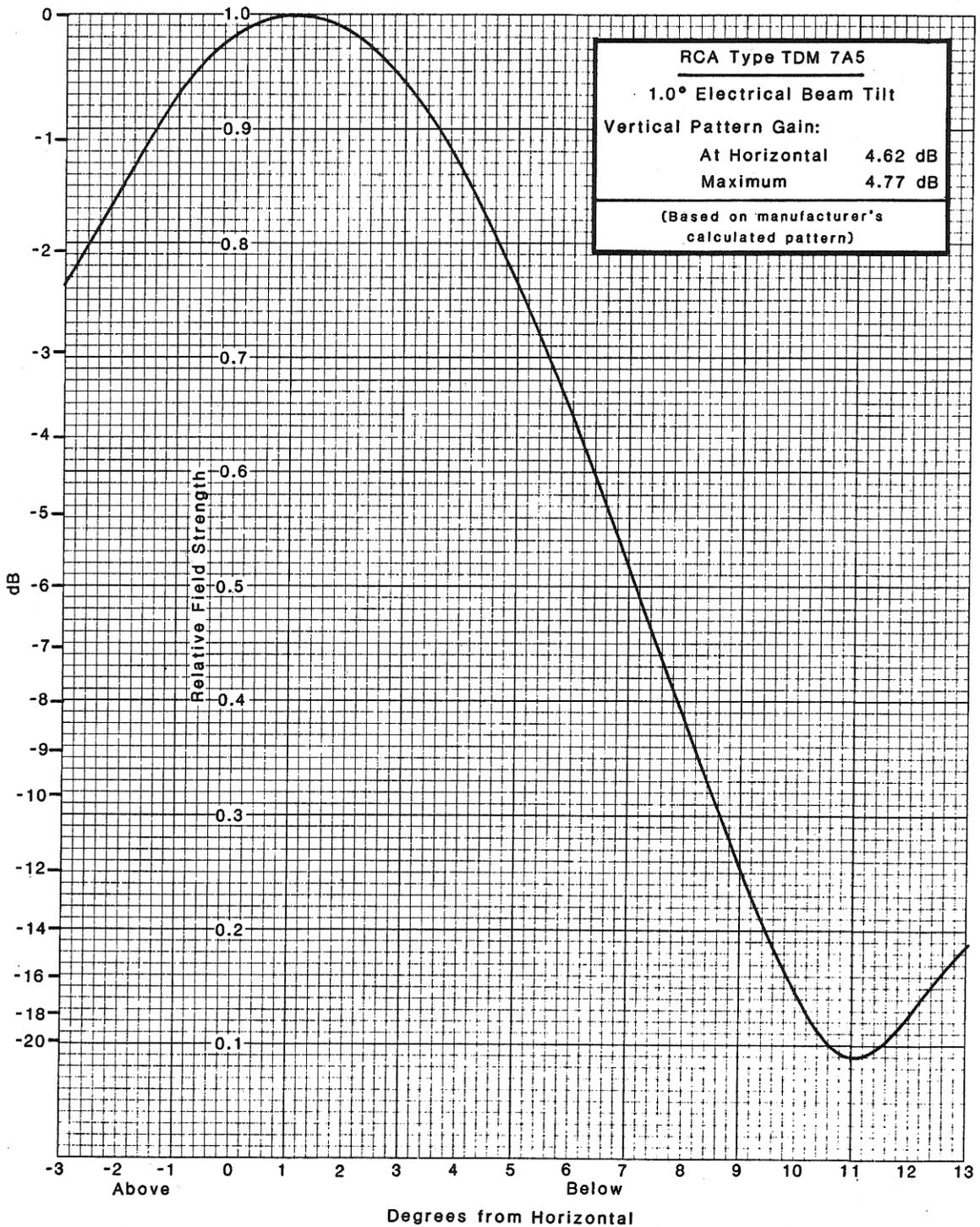
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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

APPENDIX

TRANSMITTING ANTENNA
VERTICAL PLANE PATTERN

JUNE 1986



ANTENNA VERTICAL PLANE RADIATION PATTERN

CHANNEL FIVE TELEVISION COMPANY

TV BROADCAST STATION WTVF NASHVILLE, TENNESSEE

CH 5 100 KW 425 METERS

Jules Cohen & Associates, P.C. Consulting Electronics Engineers