TECHNICAL EXHIBIT
DTV MAXIMIZATION APPLICATION
STATION WTVF(DT)
NASHVILLE, TENNESSEE
CH 5 25 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 25 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 Impact Upon the Existing Television Broadcast Service, MB Docket 87-268, Released August 6, 2007; Adopted August 1, 2007.

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.

Maximum DTV Effective Radiated Power and HAAT

The proposed WTVF-DT effective radiated power and antenna height above average terrain exceeds that permitted by Section 73.622(f)(6) of the Commission Rules. WTVF-DT is seeking a waiver of this Rule for the herein requested effective radiated power of 25 kilowatts and an antenna height above terrain of 425 meters. As WTVF-DT will operate post-transition on a low-band VHF Channel, Channel 5, additional effective radiated power is necessary to overcome the additional noise, both atmospheric and impulse noise, that is not considered within the Commission's DTV planning factors.

Population Served

The herein proposed WTVF(DT) "maximized" facility is predicted to serve 2,225,028 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 then 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

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.

Rules and published guidelines with respect to all considered stations[3], 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. The radiation center for the proposed WTVF(DT) antenna is located 348 meters above ground level. The maximum effective radiated power is 25 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/cm^2. This is less than 5 percent of the Commission's recommended limit of 0.2 mW/cm^2 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

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.

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.

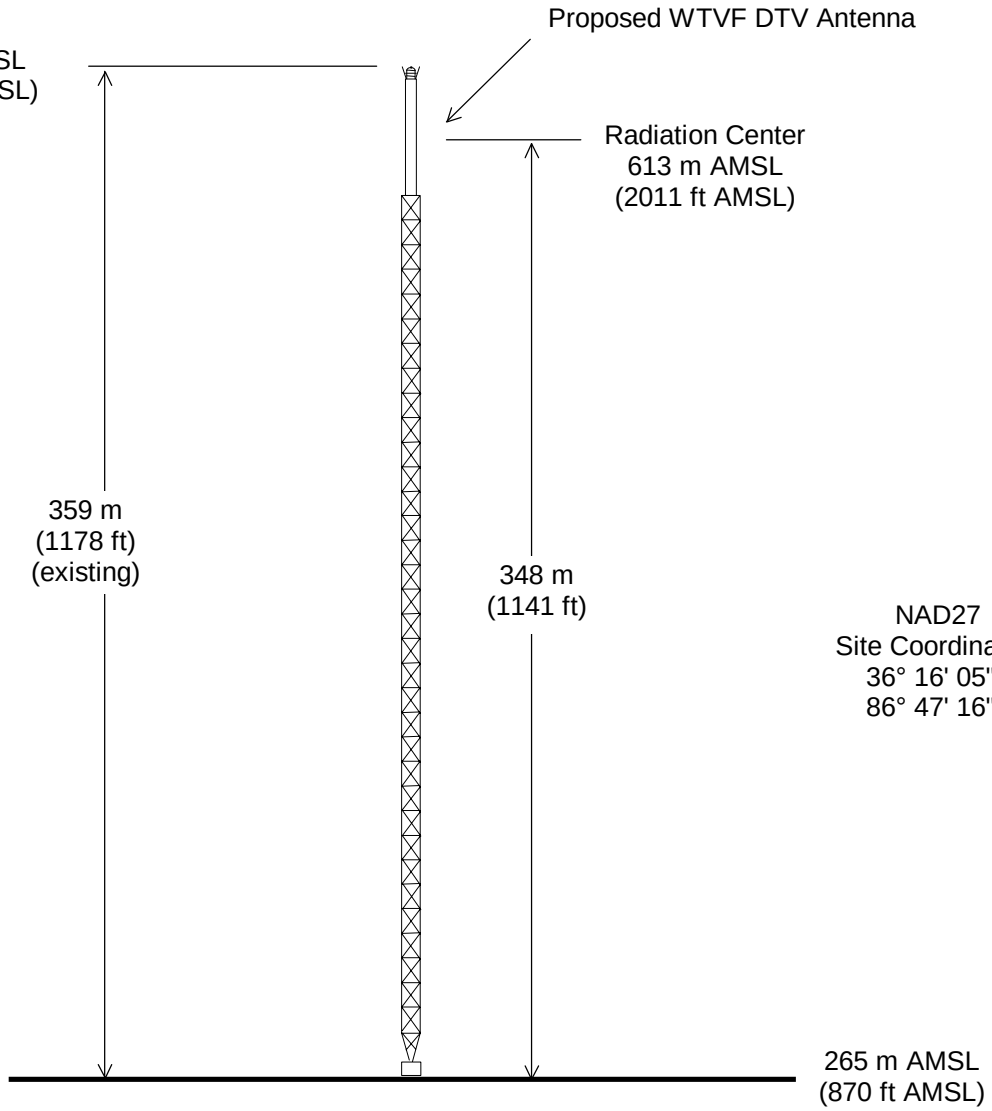
Charles Cooper

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 32437
941.329.6000

June 13, 2008

JUNE 2008

ASRN: 1041373



Not to Scale

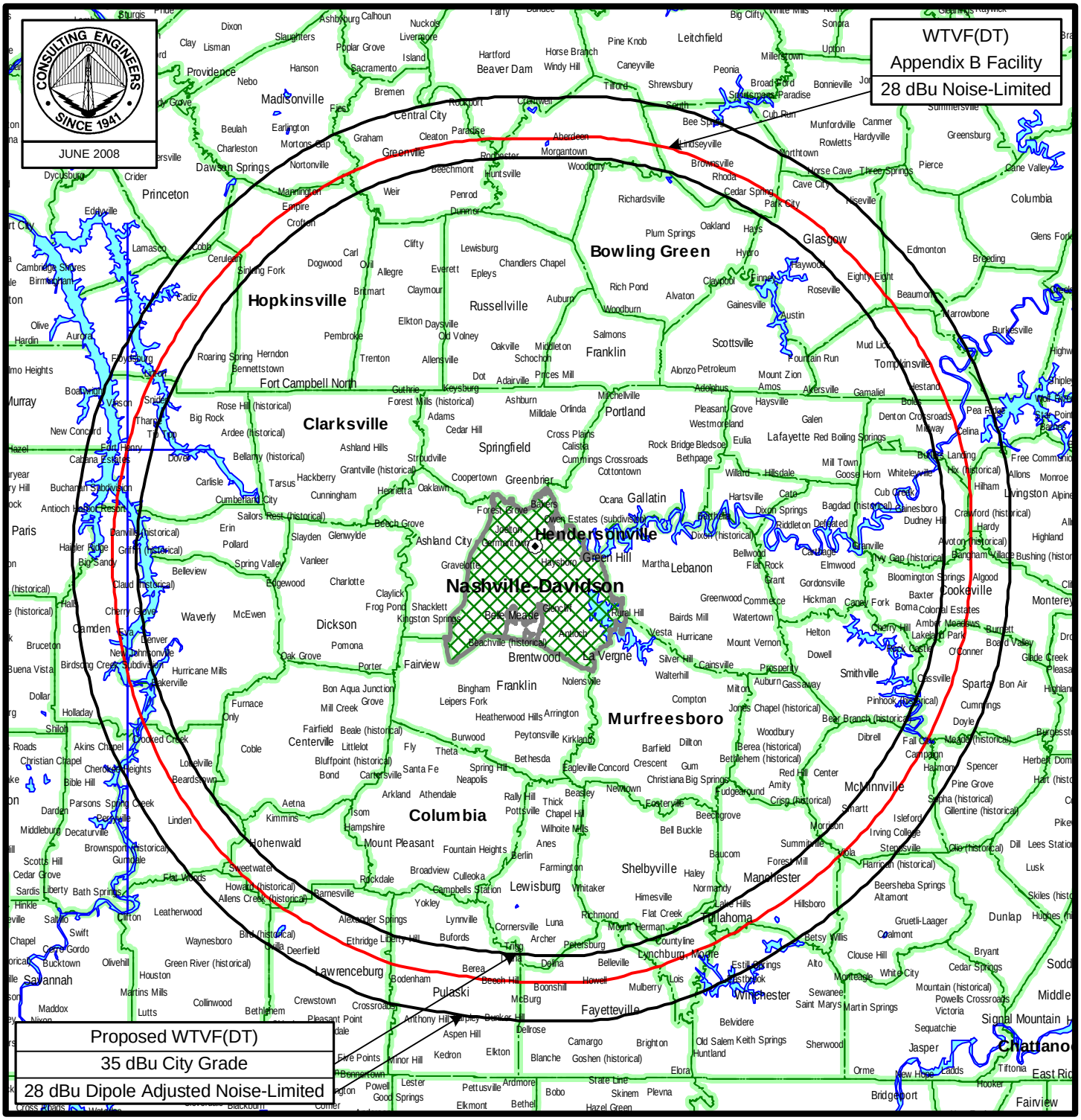
ANTENNA AND SUPPORTING STRUCTURE

DTV STATION WTVF

NASHVILLE, TENNESSEE

CH 5 25 KW 425 M

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



20 0 20 40 60 80 100 120 miles

20 0 40 80 120 160 kilometers

PREDICTED COVERAGE CONTOURS

DTV STATION WTVF(DT)

NASHVILLE, TENNESSEE

CH 5 25 KW 425 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida

Figure 3

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

             TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-13-2008    Time: 12:25:37

Record Selected for Analysis

WTVF     USERRECORD-01               NASHVILLE            TN US
Channel 05 ERP 25.    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
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Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 0.50 km

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Facility does not meet maximum height/power limits
Channel  5  ERP =   25.00  HAAT =  429.

   Azimuth     ERP        HAAT   28.0 dBu F(50,90)
    (Deg)      (kW)       (m)        (km)
     0.0       25.000     367.3      119.5
    45.0       25.000     431.5      124.6
    90.0       25.000     457.3      126.9
   135.0       25.000     454.4      126.6
   180.0       25.000     457.5      126.9
   225.0       25.000     462.0      127.3
   270.0       25.000     412.3      122.9
   315.0       25.000     389.9      121.1


                   Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

                   Class A Evaluation Complete


Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone
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Figure 3

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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  CP     BPCDT     -20080327AFN
 05   WMC-TV   MEMPHIS TN                305.1  PLN    DTVPLN    -DTVP0027
 05   WCYB-TV  BRISTOL VA                419.3  PLN    DTVPLN    -DTVP0030
 05   WCYB-TV  BRISTOL VA                419.3  CP     BPCDT     -20080327AFS

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     Analysis of Interference to Affected Station   1


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:        1
Scenario        1  Affected station        1
Before Analysis

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
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   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

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       29134       1644.6
   lost to ATV IX only                29134       1644.6
   lost to all IX                     29134       1644.6

 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   25.00 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 99999999999999

 Percent new interference from proposal:       0.8209 to BPCDT     20080327AFN


Worst case new IX    0.8209% Scenario      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
```

Figure 3

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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       27994       1532.5
   lost to ATV IX only                27994       1532.5
   lost to all IX                     27994       1532.5

 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   25.00 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:       0.7655 to DTVPLN    DTVP0027


Worst case new IX    0.7655% Scenario      1

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     Analysis of Interference to Affected Station   3


Analysis of current record
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Figure 3

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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  CP     BPCDT     -20080222AEC
 05   WDTV     WESTON WV                327.2  PLN    DTVPLN    -DTVP0031
 05   WTVF     NASHVILLE TN             419.3  APP    USERRECORD-01

 Total scenarios =   2


Result key:        3
Scenario        1  Affected station        3
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     1

 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
   not affected by terrain losses   1945354      47561.2
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV        8835        169.5
   lost to ATV IX only                 8835        169.5
   lost to all IX                      8835        169.5

 Potential Interfering Stations Included in above Scenario     1

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

Percent new IX =    0.0905%

Result key:        4
Scenario        2  Affected station        3
Before Analysis

Results for:  5A VA BRISTOL             DTVPLN    DTVP0030     PLN
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Figure 3

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   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        6392        121.1
   lost to ATV IX only                 6392        121.1
   lost to all IX                      6392        121.1

 Potential Interfering Stations Included in above Scenario     2

 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        8146        137.2
   lost to ATV IX only                 8146        137.2
   lost to all IX                      8146        137.2

 Potential Interfering Stations Included in above Scenario     2

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

Percent new IX =    0.0905%

Worst case new IX    0.0905% 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               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  CP     BPCDT     -20080222AEC
 05   WDTV     WESTON WV                327.1  PLN    DTVPLN    -DTVP0031
 05   WTVF     NASHVILLE TN             419.3  APP    USERRECORD-01

 Total scenarios =   2


Result key:        5
```

Figure 3

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Scenario        1  Affected station        4
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     1

 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     1

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

Percent new IX =    0.0255%

Result key:        6
Scenario        2  Affected station        4
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        4444        153.4
   lost to ATV IX only                 4444        153.4
   lost to all IX                      4444        153.4

 Potential Interfering Stations Included in above Scenario     2

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

After Analysis
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Figure 3

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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        4945        161.5
   lost to ATV IX only                 4945        161.5
   lost to all IX                      4945        161.5

 Potential Interfering Stations Included in above Scenario     2

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

Percent new IX =    0.0255%

Worst case new IX    0.0255% Scenario      1

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     Analysis of Interference to Affected Station   5


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  CP     BPCDT     -20080327AFN
 05   WMC-TV   MEMPHIS TN               305.1  PLN    DTVPLN    -DTVP0027
 05   WCYB-TV  BRISTOL VA               419.3  PLN    DTVPLN    -DTVP0030
 05   WCYB-TV  BRISTOL VA               419.3  CP     BPCDT     -20080327AFS

 Total scenarios =   4


Result key:        7
Scenario        1  Affected station        5
Before Analysis

Results for:  5A TN NASHVILLE            USERRECORD01           APP
   HAAT  429.0 m, ATV ERP   25.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     2284977      48627.4
   not affected by terrain losses   2255426      47160.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       15199        679.7
   lost to ATV IX only                15199        679.7
   lost to all IX                     15199        679.7

 Potential Interfering Stations Included in above Scenario     1
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Figure 3

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

Result key:        8
Scenario        2  Affected station        5
Before Analysis

Results for:  5A TN NASHVILLE           USERRECORD01          APP
   HAAT  429.0 m, ATV ERP   25.0 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour     2284977      48627.4
   not affected by terrain losses   2255426      47160.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       15199        679.7
   lost to ATV IX only                15199        679.7
   lost to all IX                     15199        679.7

 Potential Interfering Stations Included in above Scenario     2

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

Result key:        9
Scenario        3  Affected station        5
Before Analysis

Results for:  5A TN NASHVILLE           USERRECORD01          APP
   HAAT  429.0 m, ATV ERP   25.0 kW
                               POPULATION   AREA (sq km)
   within Noise Limited Contour     2284977      48627.4
   not affected by terrain losses   2255426      47160.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       15578        683.7
   lost to ATV IX only                15578        683.7
   lost to all IX                     15578        683.7

 Potential Interfering Stations Included in above Scenario     3

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

Result key:       10
Scenario        4  Affected station        5
Before Analysis

Results for:  5A TN NASHVILLE           USERRECORD01          APP
   HAAT  429.0 m, ATV ERP   25.0 kW
                               POPULATION   AREA (sq km)
   within Noise Limited Contour     2284977      48627.4
   not affected by terrain losses   2255426      47160.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       15578        683.7
   lost to ATV IX only                15578        683.7
   lost to all IX                     15578        683.7

 Potential Interfering Stations Included in above Scenario     4
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Figure 3

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

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED
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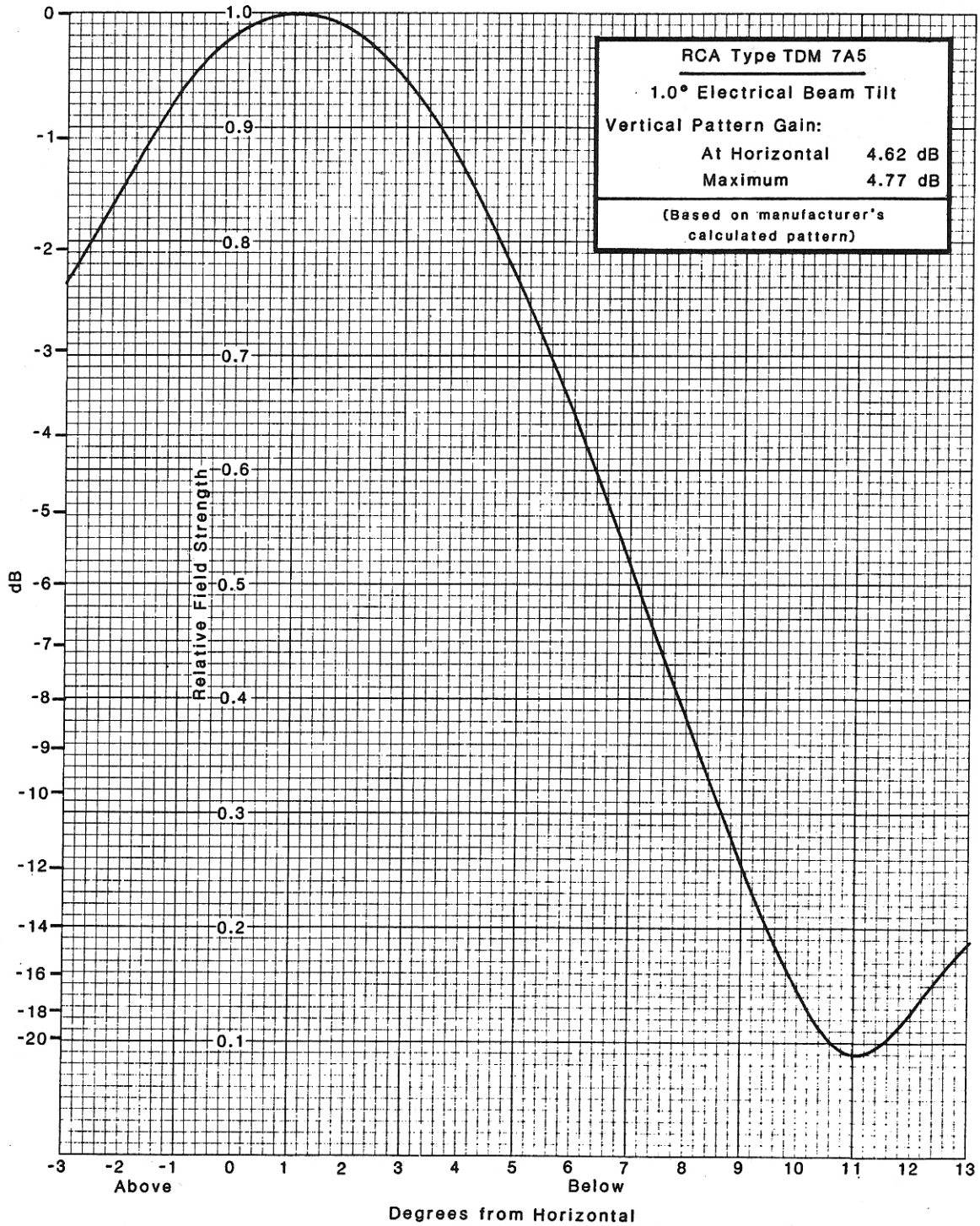
APPENDIX

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