

TECHNICAL EXHIBIT  
DTV MAXIMIZATION APPLICATION  
STATION WUNC-DT  
CHAPEL HILL, NORTH CAROLINA  
CH 25 1000 KW (MAX-DA) 464 M

Technical Narrative

This Technical Exhibit supports an application for digital television (DTV) station WUNC-DT for its "maximized" DTV operation at Chapel Hill, North Carolina. This application requests a construction permit (CP) for WUNC-DT digital television operation on channel 25 at Chapel Hill with a directional effective radiated power of 1000 kilowatts. WUNC-DT intends to reuse its authorized DTV construction permit facility directional transmitting antenna (ERI ATW22HS3-ETC170-25H) for digital operation.

Proposed Facilities

Station WUNC-DT proposes to operate DTV channel 25 from its authorized DTV construction permit facility. The antenna height above average terrain for the channel 25 DTV operation will be 464 meters. The proposed WUNC-DT effective radiated power exceeds the Commission's *Appendix B* allocated maximum effective radiated power in some azimuthal directions for WUNC-DT.<sup>1</sup> Therefore, an allocation study was completed to ensure no prohibited interference would occur.

---

<sup>1</sup> 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 at the authorized WUNC-DT tower. Therefore, the proposed site location is:

35° 51' 59" North Latitude  
79° 10' 00" West Longitude

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

Appendix A contains the vertical and horizontal 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 Chapel Hill city limits were derived from information contained in the 2000 U.S. Census of Population and Housing.

#### Maximum DTV Effective Radiated Power and HAAT

The proposed WUNC-DT effective radiated power and antenna height above average terrain exceeds that permitted by Section 73.622(f)(8) of the Commission Rules. However, the proposed WUNC-DT service area of 34,277 square kilometers is less than that of another station in the market, WRAZ(DT), which serves 44,278 square kilometers. Therefore, pursuant to 73.622(f)(5), as the proposed WUNC-DT service area remains equal to or less than that of the

largest station in the market, the proposed effective radiated power and antenna height above terrain is allowed to exceed the limits defined in Section 73.622(f)(8).

#### Population Served

The herein proposed WUNC-DT "maximized" facility is predicted to serve 3,289,187 persons, post-transition based upon the 2000 Census. WUNC-DT's associated Appendix B facility is predicted to serve 2,744,000 persons. Therefore, the herein proposed WUNC-DT facility would serve more than 100% of WUNC-DT's Appendix B population.

#### Allocation Considerations

The proposed WUNC-DT Channel 25 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.<sup>2</sup> 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 WUNC-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 stations<sup>3</sup>, except to the Licensed facility of WUNF-TV on channel 25 at Asheville, North Carolina. An interference agreement with WUNF-TV is attached within Appendix B.

### Radiofrequency Electromagnetic Field Exposure

The proposed WUNC-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 WUNC-DT antenna is located 464 meters above ground level. The maximum effective radiated power is 1000 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 0.0098 mW/cm<sup>2</sup>. This is less than 5 percent of the Commission's recommended limit of 0.36 mW/cm<sup>2</sup> for channel 25 for an "uncontrolled" environment.

Access to the transmitting site is restricted and appropriately marked with warning signs. As this is a multi-user site an agreement between the stations will control access. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker

---

<sup>2</sup> 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.

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 WUNC-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

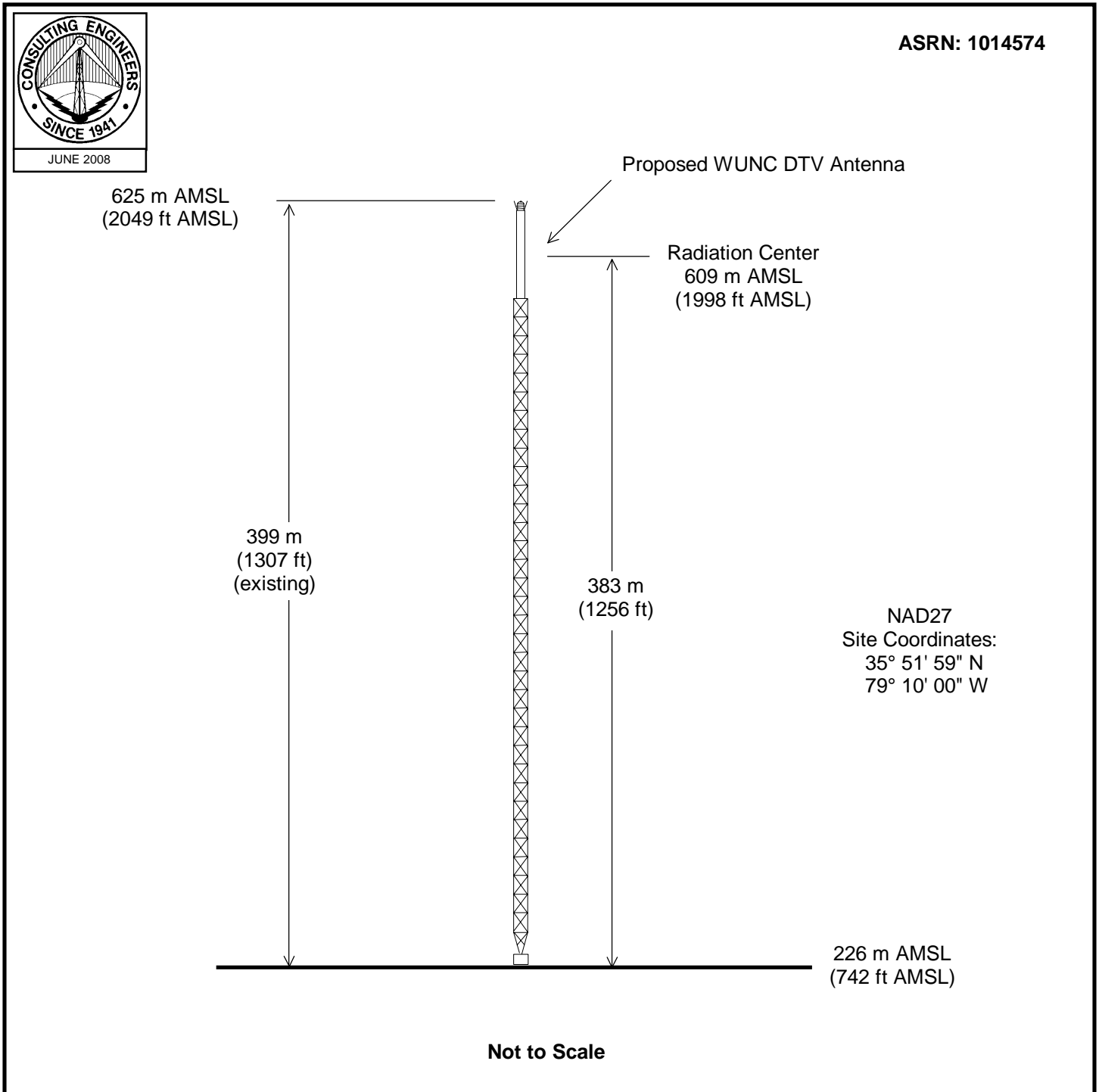
du Treil, Lundin & Rackley, Inc.  
201 Fletcher Avenue  
Sarasota, Florida 32437  
941.329.6000

June 6, 2008

---

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 WUNC-DT. This properly reflects the net interference change for determining compliance with the FCC 0.5% *de minimis* standard.

Figure 1

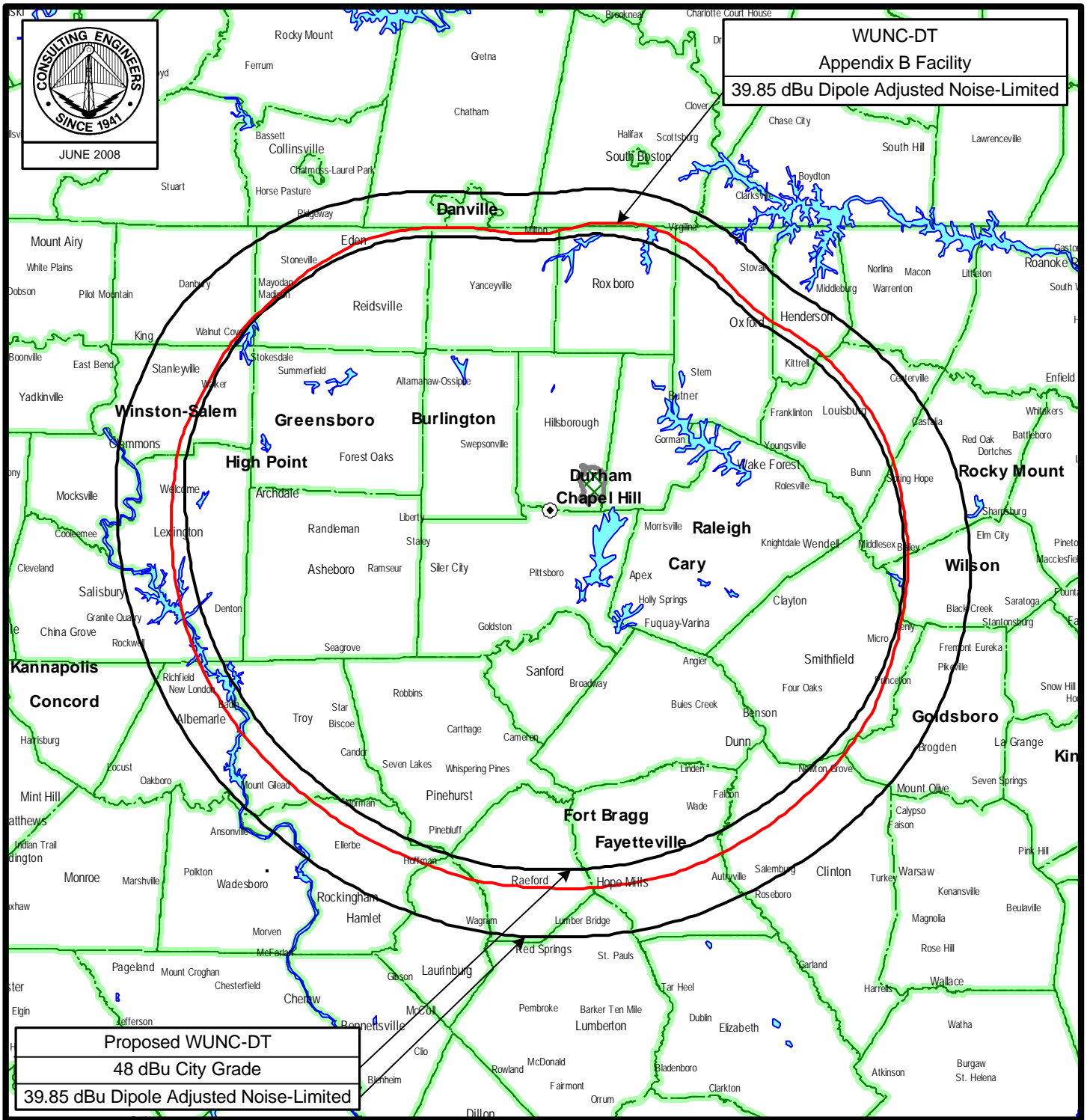


## ANTENNA AND SUPPORTING STRUCTURE

DTV STATION WUNC  
CHAPEL HILL, NORTH CAROLINA  
CH 25 1000 KW (MAX-DA) 464 M

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

Figure 2



## PREDICTED COVERAGE CONTOURS

STATION WUNC-DT

CHAPEL HILL, NORTH CAROLINA

CH 25 1000 KW (MAX-DA) 464 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida

Figure 3

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/cdb/pt\_tvdb.sff

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-06-2008 Time: 08:58:57

## Record Selected for Analysis

WUNC-TV USERRECORD-01 CHAPEL HILL NC US  
 Channel 25 ERP 1000. kW HAAT 461. m RCAMSL 00609 m  
 Latitude 035-51-59 Longitude 0079-10-00  
 Status APP Zone 2 Border  
 Dir Antenna Make CDB Model 00000000085994 Beam tilt N Ref Azimuth 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 does not meet maximum height/power limits  
 Channel 25 ERP = 1000.00 HAAT = 461.

| Azimuth<br>(Deg) | ERP<br>(kW) | HAAT<br>(m) | 41.0 dBu F(50,90)<br>(km) |
|------------------|-------------|-------------|---------------------------|
| 0.0              | 42.849      | 410.6       | 82.3                      |
| 45.0             | 45.156      | 458.2       | 85.0                      |
| 90.0             | 537.289     | 487.9       | 107.5                     |
| 135.0            | 988.036     | 479.0       | 112.9                     |
| 180.0            | 819.025     | 474.1       | 110.6                     |
| 225.0            | 829.921     | 469.0       | 110.3                     |
| 270.0            | 1000.000    | 466.0       | 112.0                     |
| 315.0            | 436.260     | 440.1       | 101.5                     |

## 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

Figure 3

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 OK toward AM broadcast stations

\*\*\*\*\*  
 Start of Interference Analysis

| Channel | Proposed Station<br>Call City/State | ARN          |
|---------|-------------------------------------|--------------|
| 25      | WUNC-TV CHAPEL HILL NC              | USERRECORD01 |

## Stations Potentially Affected by Proposed Station

| Chan | Call    | City/State             | Dist(km) | Status | Application Ref. No. |
|------|---------|------------------------|----------|--------|----------------------|
| 24   | WDRL-TV | DANVILLE VA            | 134.3    | PLN    | DTVPLN -DTVP0908     |
| 24   | WDRL-TV | DANVILLE VA            | 132.2    | APP    | BPCDT -20080317AIL   |
| 25   | WUNF-TV | ASHEVILLE NC           | 327.9    | LIC    | BLEDT -20030401BAI   |
| 25   | WUNF-TV | ASHEVILLE NC           | 327.9    | PLN    | DTVPLN -DTVP0929     |
| 25   | WKPT-LP | KINGSPORT TN           | 315.5    | LIC    | BLTT -19871119IB     |
| 25   | WKPT-LP | KINGSPORT TN           | 315.5    | APP    | BSTA -20060331AXC    |
| 25   | W2SCS   | CHESAPEAKE VA          | 278.8    | LIC    | BLTTL -20021216AAN   |
| 25   | WTVR-TV | RICHMOND VA            | 230.1    | LIC    | BLCDT -20021204ABA   |
| 25   | WTVR-TV | RICHMOND VA            | 230.1    | PLN    | DTVPLN -DTVP0939     |
| 25   | WAZM-CA | STAUNTON-WAYNESBORO VA | 283.0    | LIC    | BLTTL -20011107ABW   |

\*\*\*\*\*

## Analysis of Interference to Affected Station 1

## Analysis of current record

| Channel | Call    | City/State  | Application Ref. No. |
|---------|---------|-------------|----------------------|
| 24      | WDRL-TV | DANVILLE VA | DTVPLN -DTVP0908     |

## Stations Potentially Affecting This Station

| Chan | Call    | City/State     | Dist(km) | Status | Application Ref. No. |
|------|---------|----------------|----------|--------|----------------------|
| 24   | WKPI-TV | PIKEVILLE KY   | 265.6    | LIC    | BLEDT -20020313ABL   |
| 24   | WKPI-TV | PIKEVILLE KY   | 265.6    | PLN    | DTVPLN -DTVP0885     |
| 24   | WATM-TV | ALTOONA PA     | 403.9    | LIC    | BLCDT -20050603ACF   |
| 24   | WATM-TV | ALTOONA PA     | 403.9    | PLN    | DTVPLN -DTVP0899     |
| 24   | WNVC    | FAIRFAX VA     | 288.1    | CP     | BPEDT -20080221ACD   |
| 24   | WNVC    | FAIRFAX VA     | 288.1    | PLN    | DTVPLN -DTVP0909     |
| 25   | WUNC-TV | CHAPEL HILL NC | 134.3    | PLN    | DTVPLN -DTVP0930     |
| 25   | WTVR-TV | RICHMOND VA    | 179.6    | LIC    | BLCDT -20021204ABA   |
| 25   | WTVR-TV | RICHMOND VA    | 179.6    | PLN    | DTVPLN -DTVP0939     |
| 25   | WUNC-TV | CHAPEL HILL NC | 134.3    | APP    | USERRECORD-01        |



Figure 3

Total scenarios = 4

Result key: 1  
 Scenario 1 Affected station 1  
 Before Analysis

Results for: 24A VA DANVILLE DTVPLN DTVP0908 PLN  
 HAAT 332.0 m, ATV ERP 140.9 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 994142     | 23298.5      |
| not affected by terrain losses | 917677     | 21234.3      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 436        | 32.1         |
| lost to ATV IX only            | 436        | 32.1         |
| lost to all IX                 | 436        | 32.1         |

Potential Interfering Stations Included in above Scenario 1

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 24A KY PIKEVILLE   | BLEDT  | 20020313ABL | LIC |
| 24A VA FAIRFAX     | BPEDT  | 20080221ACD | CP  |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930    | PLN |

After Analysis

Results for: 24A VA DANVILLE DTVPLN DTVP0908 PLN  
 HAAT 332.0 m, ATV ERP 140.9 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 994142     | 23298.5      |
| not affected by terrain losses | 917677     | 21234.3      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 1118       | 52.1         |
| lost to ATV IX only            | 1118       | 52.1         |
| lost to all IX                 | 1118       | 52.1         |

Potential Interfering Stations Included in above Scenario 1

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A KY PIKEVILLE   | BLEDT        | 20020313ABL | LIC |
| 24A VA FAIRFAX     | BPEDT        | 20080221ACD | CP  |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

Percent new IX = 0.0744%

Result key: 2  
 Scenario 2 Affected station 1  
 Before Analysis

Results for: 24A VA DANVILLE DTVPLN DTVP0908 PLN  
 HAAT 332.0 m, ATV ERP 140.9 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 994142     | 23298.5      |
| not affected by terrain losses | 917677     | 21234.3      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 436        | 32.1         |
| lost to ATV IX only            | 436        | 32.1         |
| lost to all IX                 | 436        | 32.1         |

Figure 3

Potential Interfering Stations Included in above Scenario 2

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 24A KY PIKEVILLE   | BLEDT  | 20020313ABL | LIC |
| 24A VA FAIRFAX     | DTVPLN | DTVP0909    | PLN |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930    | PLN |

After Analysis

Results for: 24A VA DANVILLE DTVPLN DTVP0908 PLN  
 HAAT 332.0 m, ATV ERP 140.9 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 994142     | 23298.5      |
| not affected by terrain losses | 917677     | 21234.3      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 1118       | 52.1         |
| lost to ATV IX only            | 1118       | 52.1         |
| lost to all IX                 | 1118       | 52.1         |

Potential Interfering Stations Included in above Scenario 2

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A KY PIKEVILLE   | BLEDT        | 20020313ABL | LIC |
| 24A VA FAIRFAX     | DTVPLN       | DTVP0909    | PLN |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

Percent new IX = 0.0744%

Result key: 3  
 Scenario 3 Affected station 1  
 Before Analysis

Results for: 24A VA DANVILLE DTVPLN DTVP0908 PLN  
 HAAT 332.0 m, ATV ERP 140.9 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 994142     | 23298.5      |
| not affected by terrain losses | 917677     | 21234.3      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 436        | 32.1         |
| lost to ATV IX only            | 436        | 32.1         |
| lost to all IX                 | 436        | 32.1         |

Potential Interfering Stations Included in above Scenario 3

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 24A KY PIKEVILLE   | DTVPLN | DTVP0885    | PLN |
| 24A VA FAIRFAX     | BPEDT  | 20080221ACD | CP  |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930    | PLN |

After Analysis

Results for: 24A VA DANVILLE DTVPLN DTVP0908 PLN  
 HAAT 332.0 m, ATV ERP 140.9 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 994142     | 23298.5      |
| not affected by terrain losses | 917677     | 21234.3      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 1118       | 52.1         |
| lost to ATV IX only            | 1118       | 52.1         |
| lost to all IX                 | 1118       | 52.1         |

Figure 3

Potential Interfering Stations Included in above Scenario 3

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A KY PIKEVILLE   | DTVPLN       | DTVP0885    | PLN |
| 24A VA FAIRFAX     | BPEDT        | 20080221ACD | CP  |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

Percent new IX = 0.0744%

Result key: 4  
Scenario 4 Affected station 1  
Before Analysis

|                                |            |              |     |
|--------------------------------|------------|--------------|-----|
| Results for: 24A VA DANVILLE   | DTVPLN     | DTVP0908     | PLN |
| HAAT 332.0 m, ATV ERP 140.9 kW |            |              |     |
|                                | POPULATION | AREA (sq km) |     |
| within Noise Limited Contour   | 994142     | 23298.5      |     |
| not affected by terrain losses | 917677     | 21234.3      |     |
| lost to NTSC IX                | 0          | 0.0          |     |
| lost to additional IX by ATV   | 436        | 32.1         |     |
| lost to ATV IX only            | 436        | 32.1         |     |
| lost to all IX                 | 436        | 32.1         |     |

Potential Interfering Stations Included in above Scenario 4

|                    |        |          |     |
|--------------------|--------|----------|-----|
| 24A KY PIKEVILLE   | DTVPLN | DTVP0885 | PLN |
| 24A VA FAIRFAX     | DTVPLN | DTVP0909 | PLN |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930 | PLN |

After Analysis

|                                |            |              |     |
|--------------------------------|------------|--------------|-----|
| Results for: 24A VA DANVILLE   | DTVPLN     | DTVP0908     | PLN |
| HAAT 332.0 m, ATV ERP 140.9 kW |            |              |     |
|                                | POPULATION | AREA (sq km) |     |
| within Noise Limited Contour   | 994142     | 23298.5      |     |
| not affected by terrain losses | 917677     | 21234.3      |     |
| lost to NTSC IX                | 0          | 0.0          |     |
| lost to additional IX by ATV   | 1118       | 52.1         |     |
| lost to ATV IX only            | 1118       | 52.1         |     |
| lost to all IX                 | 1118       | 52.1         |     |

Potential Interfering Stations Included in above Scenario 4

|                    |              |          |     |
|--------------------|--------------|----------|-----|
| 24A KY PIKEVILLE   | DTVPLN       | DTVP0885 | PLN |
| 24A VA FAIRFAX     | DTVPLN       | DTVP0909 | PLN |
| 25A NC CHAPEL HILL | USERRECORD01 |          | APP |

Percent new IX = 0.0744%

Worst case new IX 0.0744% Scenario 1

#####

Analysis of Interference to Affected Station 2

Figure 3

Analysis of current record

| Channel | Call    | City/State  | Application | Ref. No.     |
|---------|---------|-------------|-------------|--------------|
| 24      | WDRL-TV | DANVILLE VA | BPCDT       | -20080317AIL |

Stations Potentially Affecting This Station

| Chan | Call    | City/State     | Dist(km) | Status | Application   | Ref. No.     |
|------|---------|----------------|----------|--------|---------------|--------------|
| 24   | WKPI-TV | PIKEVILLE KY   | 263.4    | LIC    | BLEDT         | -20020313ABL |
| 24   | WKPI-TV | PIKEVILLE KY   | 263.4    | PLN    | DTVPLN        | -DTVP0885    |
| 24   | WATM-TV | ALTOONA PA     | 407.4    | LIC    | BLCDT         | -20050603ACF |
| 24   | WATM-TV | ALTOONA PA     | 407.4    | PLN    | DTVPLN        | -DTVP0899    |
| 24   | WNVC    | FAIRFAX VA     | 292.0    | CP     | BPEDT         | -20080221ACD |
| 24   | WNVC    | FAIRFAX VA     | 292.0    | PLN    | DTVPLN        | -DTVP0909    |
| 25   | WUNC-TV | CHAPEL HILL NC | 132.2    | PLN    | DTVPLN        | -DTVP0930    |
| 25   | WTVR-TV | RICHMOND VA    | 183.0    | LIC    | BLCDT         | -20021204ABA |
| 25   | WTVR-TV | RICHMOND VA    | 183.0    | PLN    | DTVPLN        | -DTVP0939    |
| 25   | WUNC-TV | CHAPEL HILL NC | 132.2    | APP    | USERRECORD-01 |              |

Total scenarios = 4

Result key: 5  
Scenario 1 Affected station 2  
Before Analysis

|                                |            |              |     |
|--------------------------------|------------|--------------|-----|
| Results for: 24A VA DANVILLE   | BPCDT      | 20080317AIL  | APP |
| HAAT 378.0 m, ATV ERP 141.0 kW |            |              |     |
|                                | POPULATION | AREA (sq km) |     |
| within Noise Limited Contour   | 871176     | 17714.3      |     |
| not affected by terrain losses | 781306     | 16023.8      |     |
| lost to NTSC IX                | 0          | 0.0          |     |
| lost to additional IX by ATV   | 758        | 20.0         |     |
| lost to ATV IX only            | 758        | 20.0         |     |
| lost to all IX                 | 758        | 20.0         |     |

Potential Interfering Stations Included in above Scenario 1

|                  |       |             |     |
|------------------|-------|-------------|-----|
| 24A KY PIKEVILLE | BLEDT | 20020313ABL | LIC |
| 24A VA FAIRFAX   | BPEDT | 20080221ACD | CP  |

After Analysis

|                                |            |              |     |
|--------------------------------|------------|--------------|-----|
| Results for: 24A VA DANVILLE   | BPCDT      | 20080317AIL  | APP |
| HAAT 378.0 m, ATV ERP 141.0 kW |            |              |     |
|                                | POPULATION | AREA (sq km) |     |
| within Noise Limited Contour   | 871176     | 17714.3      |     |
| not affected by terrain losses | 781306     | 16023.8      |     |
| lost to NTSC IX                | 0          | 0.0          |     |
| lost to additional IX by ATV   | 829        | 24.0         |     |
| lost to ATV IX only            | 829        | 24.0         |     |
| lost to all IX                 | 829        | 24.0         |     |

Potential Interfering Stations Included in above Scenario 1

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A KY PIKEVILLE   | BLEDT        | 20020313ABL | LIC |
| 24A VA FAIRFAX     | BPEDT        | 20080221ACD | CP  |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

Figure 3

Percent new IX = 0.0091%

Result key: 6

Scenario 2 Affected station 2

Before Analysis

Results for: 24A VA DANVILLE BPCDT 20080317AIL APP

|                                |            |              |
|--------------------------------|------------|--------------|
| HAAT 378.0 m, ATV ERP 141.0 kW | POPULATION | AREA (sq km) |
| within Noise Limited Contour   | 871176     | 17714.3      |
| not affected by terrain losses | 781306     | 16023.8      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 758        | 20.0         |
| lost to ATV IX only            | 758        | 20.0         |
| lost to all IX                 | 758        | 20.0         |

Potential Interfering Stations Included in above Scenario 2

|                  |        |             |     |
|------------------|--------|-------------|-----|
| 24A KY PIKEVILLE | BLEDT  | 20020313ABL | LIC |
| 24A VA FAIRFAX   | DTVPLN | DTVP0909    | PLN |

After Analysis

Results for: 24A VA DANVILLE BPCDT 20080317AIL APP

|                                |            |              |
|--------------------------------|------------|--------------|
| HAAT 378.0 m, ATV ERP 141.0 kW | POPULATION | AREA (sq km) |
| within Noise Limited Contour   | 871176     | 17714.3      |
| not affected by terrain losses | 781306     | 16023.8      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 829        | 24.0         |
| lost to ATV IX only            | 829        | 24.0         |
| lost to all IX                 | 829        | 24.0         |

Potential Interfering Stations Included in above Scenario 2

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A KY PIKEVILLE   | BLEDT        | 20020313ABL | LIC |
| 24A VA FAIRFAX     | DTVPLN       | DTVP0909    | PLN |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

Percent new IX = 0.0091%

Result key: 7

Scenario 3 Affected station 2

Before Analysis

Results for: 24A VA DANVILLE BPCDT 20080317AIL APP

|                                |            |              |
|--------------------------------|------------|--------------|
| HAAT 378.0 m, ATV ERP 141.0 kW | POPULATION | AREA (sq km) |
| within Noise Limited Contour   | 871176     | 17714.3      |
| not affected by terrain losses | 781306     | 16023.8      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 758        | 20.0         |
| lost to ATV IX only            | 758        | 20.0         |
| lost to all IX                 | 758        | 20.0         |

Potential Interfering Stations Included in above Scenario 3

Figure 3

|                  |        |             |     |
|------------------|--------|-------------|-----|
| 24A KY PIKEVILLE | DTVPLN | DTVP0885    | PLN |
| 24A VA FAIRFAX   | BPEDT  | 20080221ACD | CP  |

After Analysis

Results for: 24A VA DANVILLE BPCDT 20080317AIL APP

|                                |            |              |
|--------------------------------|------------|--------------|
| HAAT 378.0 m, ATV ERP 141.0 kW | POPULATION | AREA (sq km) |
| within Noise Limited Contour   | 871176     | 17714.3      |
| not affected by terrain losses | 781306     | 16023.8      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 829        | 24.0         |
| lost to ATV IX only            | 829        | 24.0         |
| lost to all IX                 | 829        | 24.0         |

Potential Interfering Stations Included in above Scenario 3

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A KY PIKEVILLE   | DTVPLN       | DTVP0885    | PLN |
| 24A VA FAIRFAX     | BPEDT        | 20080221ACD | CP  |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

Percent new IX = 0.0091%

Result key: 8

Scenario 4 Affected station 2

Before Analysis

Results for: 24A VA DANVILLE BPCDT 20080317AIL APP

|                                |            |              |
|--------------------------------|------------|--------------|
| HAAT 378.0 m, ATV ERP 141.0 kW | POPULATION | AREA (sq km) |
| within Noise Limited Contour   | 871176     | 17714.3      |
| not affected by terrain losses | 781306     | 16023.8      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 758        | 20.0         |
| lost to ATV IX only            | 758        | 20.0         |
| lost to all IX                 | 758        | 20.0         |

Potential Interfering Stations Included in above Scenario 4

|                  |        |          |     |
|------------------|--------|----------|-----|
| 24A KY PIKEVILLE | DTVPLN | DTVP0885 | PLN |
| 24A VA FAIRFAX   | DTVPLN | DTVP0909 | PLN |

After Analysis

Results for: 24A VA DANVILLE BPCDT 20080317AIL APP

|                                |            |              |
|--------------------------------|------------|--------------|
| HAAT 378.0 m, ATV ERP 141.0 kW | POPULATION | AREA (sq km) |
| within Noise Limited Contour   | 871176     | 17714.3      |
| not affected by terrain losses | 781306     | 16023.8      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 829        | 24.0         |
| lost to ATV IX only            | 829        | 24.0         |
| lost to all IX                 | 829        | 24.0         |

Potential Interfering Stations Included in above Scenario 4

Figure 3

```

24A KY PIKEVILLE      DTVPLN  DTVP0885  PLN
24A VA FAIRFAX         DTVPLN  DTVP0909  PLN
25A NC CHAPEL HILL     USERRECORD01  APP

Percent new IX =      0.0091%

Worst case new IX      0.0091% Scenario      1

#####

Analysis of Interference to Affected Station      3

Analysis of current record
Channel      Call      City/State      Application Ref. No.
  25      WUNF-TV      ASHEVILLE NC      BLEDT      -20030401BAI

Stations Potentially Affecting This Station

Chan  Call      City/State      Dist(km) Status Application Ref. No.
  24  WNEG-TV  TOCCOA GA      106.1  CP MOD  BMPCDT      -20080410ABJ
  24  WNEG-TV  TOCCOA GA      106.1  PLN    DTVPLN      -DTV0880
  24  WKPI-TV  PIKEVILLE KY  207.7  LIC    BLEDT      -20020313ABL
  24  WKPI-TV  PIKEVILLE KY  207.7  PLN    DTVPLN      -DTV0885
  25  WATL     ATLANTA GA      230.9  LIC    BLCDT      -20020716AAH
  25  WATL     ATLANTA GA      230.9  PLN    DTVPLN      -DTV0919
  25  WUNC-TV  CHAPEL HILL NC  327.9  PLN    DTVPLN      -DTV0930
  26  WATE-TV  KNOXVILLE TN  124.8  LIC    BMLCDT      -20041203AEG
  26  WATE-TV  KNOXVILLE TN  124.8  PLN    DTVPLN      -DTV0977
  25  WUNC-TV  CHAPEL HILL NC  327.9  APP    USERRECORD-01

Total scenarios =      8

Result key:      9
Scenario      1 Affected station      3
Before Analysis

Results for: 25A NC ASHEVILLE      BLEDT      20030401BAI LIC
HAAT  797.0 m, ATV ERP  185.0 kW

      POPULATION      AREA (sq km)
within Noise Limited Contour      2291120      35578.4
not affected by terrain losses      1893853      26927.1
lost to NTSC IX      0      0.0
lost to additional IX by ATV      54337      972.9
lost to ATV IX only      54337      972.9
lost to all IX      54337      972.9

Potential Interfering Stations Included in above Scenario      1

24A GA TOCCOA      BMPCDT      20080410ABJ CP
25A GA ATLANTA      BLCDT      20020716AAH LIC
26A TN KNOXVILLE      BMLCDT      20041203AEG LIC
25A NC CHAPEL HILL      DTVPLN      DTVP0930 PLN

After Analysis

```

Figure 3

```

Results for: 25A NC ASHEVILLE      BLEDT      20030401BAI LIC
HAAT  797.0 m, ATV ERP  185.0 kW

      POPULATION      AREA (sq km)
within Noise Limited Contour      2291120      35578.4
not affected by terrain losses      1893853      26927.1
lost to NTSC IX      0      0.0
lost to additional IX by ATV      66468      1215.1
lost to ATV IX only      66468      1215.1
lost to all IX      66468      1215.1

Potential Interfering Stations Included in above Scenario      1

24A GA TOCCOA      BMPCDT      20080410ABJ CP
25A GA ATLANTA      BLCDT      20020716AAH LIC
26A TN KNOXVILLE      BMLCDT      20041203AEG LIC
25A NC CHAPEL HILL      USERRECORD01  APP

The following station failed the de minimis interference criteria.
25D NC CHAPEL HILL      USERRECORD01
ERP 1000.00 kW HAAT  461.0 m RCAMSL  609.0 m
Antenna CDB 00000000085994

Due to interference to the following station and scenario:      1
25D NC ASHEVILLE      BLEDT      20030401BAI
ERP 185.00 kW HAAT  797.0 m RCAMSL  1783.0 m
Antenna CDB 00000000041130

Percent new interference from proposal:      0.6595 to BLEDT      20030401BAI

Result key:      10
Scenario      2 Affected station      3
Before Analysis

Results for: 25A NC ASHEVILLE      BLEDT      20030401BAI LIC
HAAT  797.0 m, ATV ERP  185.0 kW

      POPULATION      AREA (sq km)
within Noise Limited Contour      2291120      35578.4
not affected by terrain losses      1893853      26927.1
lost to NTSC IX      0      0.0
lost to additional IX by ATV      54154      968.9
lost to ATV IX only      54154      968.9
lost to all IX      54154      968.9

Potential Interfering Stations Included in above Scenario      2

24A GA TOCCOA      BMPCDT      20080410ABJ CP
25A GA ATLANTA      BLCDT      20020716AAH LIC
26A TN KNOXVILLE      DTVPLN      DTVP0977 PLN
25A NC CHAPEL HILL      DTVPLN      DTVP0930 PLN

After Analysis

Results for: 25A NC ASHEVILLE      BLEDT      20030401BAI LIC
HAAT  797.0 m, ATV ERP  185.0 kW

      POPULATION      AREA (sq km)

```

Figure 3

|                                |         |         |
|--------------------------------|---------|---------|
| within Noise Limited Contour   | 2291120 | 35578.4 |
| not affected by terrain losses | 1893853 | 26927.1 |
| lost to NTSC IX                | 0       | 0.0     |
| lost to additional IX by ATV   | 66285   | 1211.1  |
| lost to ATV IX only            | 66285   | 1211.1  |
| lost to all IX                 | 66285   | 1211.1  |

Potential Interfering Stations Included in above Scenario 2

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A GA TOCCOA      | BMPCDT       | 20080410ABJ | CP  |
| 25A GA ATLANTA     | BLCDT        | 20020716AAH | LIC |
| 26A TN KNOXVILLE   | DTVPLN       | DTVP0977    | PLN |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

The following station failed the de minimis interference criteria.  
 25D NC CHAPEL HILL USERRECORD01  
 ERP 1000.00 kW HAAT 461.0 m RCAMSL 609.0 m  
 Antenna CDB 00000000085994

Due to interference to the following station and scenario: 2  
 25D NC ASHEVILLE BLEDT 20030401BAI  
 ERP 185.00 kW HAAT 797.0 m RCAMSL 1783.0 m  
 Antenna CDB 00000000041130

Percent new interference from proposal: 0.6594 to BLEDT 20030401BAI

Result key: 11  
 Scenario 3 Affected station 3  
 Before Analysis

Results for: 25A NC ASHEVILLE BLEDT 20030401BAI LIC  
 HAAT 797.0 m, ATV ERP 185.0 kW

|                                |            |              |
|--------------------------------|------------|--------------|
|                                | POPULATION | AREA (sq km) |
| within Noise Limited Contour   | 2291120    | 35578.4      |
| not affected by terrain losses | 1893853    | 26927.1      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 54337      | 972.9        |
| lost to ATV IX only            | 54337      | 972.9        |
| lost to all IX                 | 54337      | 972.9        |

Potential Interfering Stations Included in above Scenario 3

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 24A GA TOCCOA      | BMPCDT | 20080410ABJ | CP  |
| 25A GA ATLANTA     | DTVPLN | DTVP0919    | PLN |
| 26A TN KNOXVILLE   | BMLCDT | 20041203AEG | LIC |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930    | PLN |

After Analysis

Results for: 25A NC ASHEVILLE BLEDT 20030401BAI LIC  
 HAAT 797.0 m, ATV ERP 185.0 kW

|                                |            |              |
|--------------------------------|------------|--------------|
|                                | POPULATION | AREA (sq km) |
| within Noise Limited Contour   | 2291120    | 35578.4      |
| not affected by terrain losses | 1893853    | 26927.1      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 66468      | 1215.1       |

Figure 3

|                     |       |        |
|---------------------|-------|--------|
| lost to ATV IX only | 66468 | 1215.1 |
| lost to all IX      | 66468 | 1215.1 |

Potential Interfering Stations Included in above Scenario 3

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A GA TOCCOA      | BMPCDT       | 20080410ABJ | CP  |
| 25A GA ATLANTA     | DTVPLN       | DTVP0919    | PLN |
| 26A TN KNOXVILLE   | BMLCDT       | 20041203AEG | LIC |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

The following station failed the de minimis interference criteria.  
 25D NC CHAPEL HILL USERRECORD01  
 ERP 1000.00 kW HAAT 461.0 m RCAMSL 609.0 m  
 Antenna CDB 00000000085994

Due to interference to the following station and scenario: 3  
 25D NC ASHEVILLE BLEDT 20030401BAI  
 ERP 185.00 kW HAAT 797.0 m RCAMSL 1783.0 m  
 Antenna CDB 00000000041130

Percent new interference from proposal: 0.6595 to BLEDT 20030401BAI

Result key: 12  
 Scenario 4 Affected station 3  
 Before Analysis

Results for: 25A NC ASHEVILLE BLEDT 20030401BAI LIC  
 HAAT 797.0 m, ATV ERP 185.0 kW

|                                |            |              |
|--------------------------------|------------|--------------|
|                                | POPULATION | AREA (sq km) |
| within Noise Limited Contour   | 2291120    | 35578.4      |
| not affected by terrain losses | 1893853    | 26927.1      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 54154      | 968.9        |
| lost to ATV IX only            | 54154      | 968.9        |
| lost to all IX                 | 54154      | 968.9        |

Potential Interfering Stations Included in above Scenario 4

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 24A GA TOCCOA      | BMPCDT | 20080410ABJ | CP  |
| 25A GA ATLANTA     | DTVPLN | DTVP0919    | PLN |
| 26A TN KNOXVILLE   | DTVPLN | DTVP0977    | PLN |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930    | PLN |

After Analysis

Results for: 25A NC ASHEVILLE BLEDT 20030401BAI LIC  
 HAAT 797.0 m, ATV ERP 185.0 kW

|                                |            |              |
|--------------------------------|------------|--------------|
|                                | POPULATION | AREA (sq km) |
| within Noise Limited Contour   | 2291120    | 35578.4      |
| not affected by terrain losses | 1893853    | 26927.1      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 66285      | 1211.1       |
| lost to ATV IX only            | 66285      | 1211.1       |
| lost to all IX                 | 66285      | 1211.1       |

Potential Interfering Stations Included in above Scenario 4

Figure 3

|  |                    |              |          |
|--|--------------------|--------------|----------|
| 24A GA TOCCOA  | BMPCDT             | 20080410ABJ  | CP       |
| 25A GA ATLANTA   | DTVPLN             | DTVP0919     | PLN      |
| 26A TN KNOXVILLE   | DTVPLN             | DTVP0977     | PLN      |
| 25A NC CHAPEL HILL   | USERRECORD01       |              | APP      |
| The following station failed the de minimis interference criteria. |                    |              |          |
| 25D NC CHAPEL HILL   | USERRECORD01       |              |          |
| ERP 1000.00 kW HAAT  | 461.0 m            | RCAMSL       | 609.0 m  |
| Antenna CDB 00000000085994   |                    |              |          |
| Due to interference to the following station and scenario: 4       |                    |              |          |
| 25D NC ASHEVILLE   | BLEDT              | 20030401BAI  |          |
| ERP 185.00 kW HAAT   | 797.0 m            | RCAMSL       | 1783.0 m |
| Antenna CDB 00000000041130   |                    |              |          |
| Percent new interference from proposal:                            | 0.6594 to BLEDT    | 20030401BAI  |          |
| Result key: 13   |                    |              |          |
| Scenario   | 5 Affected station | 3            |          |
| Before Analysis  |                    |              |          |
| Results for: 25A NC ASHEVILLE                                      | BLEDT              | 20030401BAI  | LIC      |
| HAAT 797.0 m, ATV ERP 185.0 kW                                     |                    |              |          |
|  | POPULATION         | AREA (sq km) |          |
| within Noise Limited Contour                                       | 2291120            | 35578.4      |          |
| not affected by terrain losses                                     | 1893853            | 26927.1      |          |
| lost to NTSC IX  | 0                  | 0.0          |          |
| lost to additional IX by ATV                                       | 66280              | 1049.6       |          |
| lost to ATV IX only  | 66280              | 1049.6       |          |
| lost to all IX   | 66280              | 1049.6       |          |
| Potential Interfering Stations Included in above Scenario          | 5                  |              |          |
| 24A GA TOCCOA  | DTVPLN             | DTVP0880     | PLN      |
| 25A GA ATLANTA   | BLCDT              | 20020716AAH  | LIC      |
| 26A TN KNOXVILLE   | BMLCDT             | 20041203AEG  | LIC      |
| 25A NC CHAPEL HILL   | DTVPLN             | DTVP0930     | PLN      |
| After Analysis   |                    |              |          |
| Results for: 25A NC ASHEVILLE                                      | BLEDT              | 20030401BAI  | LIC      |
| HAAT 797.0 m, ATV ERP 185.0 kW                                     |                    |              |          |
|  | POPULATION         | AREA (sq km) |          |
| within Noise Limited Contour                                       | 2291120            | 35578.4      |          |
| not affected by terrain losses                                     | 1893853            | 26927.1      |          |
| lost to NTSC IX  | 0                  | 0.0          |          |
| lost to additional IX by ATV                                       | 78411              | 1291.9       |          |
| lost to ATV IX only  | 78411              | 1291.9       |          |
| lost to all IX   | 78411              | 1291.9       |          |
| Potential Interfering Stations Included in above Scenario          | 5                  |              |          |
| 24A GA TOCCOA  | DTVPLN             | DTVP0880     | PLN      |
| 25A GA ATLANTA   | BLCDT              | 20020716AAH  | LIC      |
| 26A TN KNOXVILLE   | BMLCDT             | 20041203AEG  | LIC      |

Figure 3

|  |                    |                 |
|--|--------------------|-----------------|
| 25A NC CHAPEL HILL   | USERRECORD01       | APP             |
| The following station failed the de minimis interference criteria. |                    |                 |
| 25D NC CHAPEL HILL   | USERRECORD01       |                 |
| ERP 1000.00 kW HAAT  | 461.0 m            | RCAMSL 609.0 m  |
| Antenna CDB 00000000085994   |                    |                 |
| Due to interference to the following station and scenario: 5       |                    |                 |
| 25D NC ASHEVILLE   | BLEDT              | 20030401BAI     |
| ERP 185.00 kW HAAT   | 797.0 m            | RCAMSL 1783.0 m |
| Antenna CDB 00000000041130   |                    |                 |
| Percent new interference from proposal:                            | 0.6638 to BLEDT    | 20030401BAI     |
| Result key: 14   |                    |                 |
| Scenario   | 6 Affected station | 3               |
| Before Analysis  |                    |                 |
| Results for: 25A NC ASHEVILLE                                      | BLEDT              | 20030401BAI LIC |
| HAAT 797.0 m, ATV ERP 185.0 kW                                     |                    |                 |
|  | POPULATION         | AREA (sq km)    |
| within Noise Limited Contour                                       | 2291120            | 35578.4         |
| not affected by terrain losses                                     | 1893853            | 26927.1         |
| lost to NTSC IX  | 0                  | 0.0             |
| lost to additional IX by ATV                                       | 66097              | 1045.6          |
| lost to ATV IX only  | 66097              | 1045.6          |
| lost to all IX   | 66097              | 1045.6          |
| Potential Interfering Stations Included in above Scenario          | 6                  |                 |
| 24A GA TOCCOA  | DTVPLN             | DTVP0880 PLN    |
| 25A GA ATLANTA   | BLCDT              | 20020716AAH LIC |
| 26A TN KNOXVILLE   | DTVPLN             | DTVP0977 PLN    |
| 25A NC CHAPEL HILL   | DTVPLN             | DTVP0930 PLN    |
| After Analysis   |                    |                 |
| Results for: 25A NC ASHEVILLE                                      | BLEDT              | 20030401BAI LIC |
| HAAT 797.0 m, ATV ERP 185.0 kW                                     |                    |                 |
|  | POPULATION         | AREA (sq km)    |
| within Noise Limited Contour                                       | 2291120            | 35578.4         |
| not affected by terrain losses                                     | 1893853            | 26927.1         |
| lost to NTSC IX  | 0                  | 0.0             |
| lost to additional IX by ATV                                       | 78228              | 1287.8          |
| lost to ATV IX only  | 78228              | 1287.8          |
| lost to all IX   | 78228              | 1287.8          |
| Potential Interfering Stations Included in above Scenario          | 6                  |                 |
| 24A GA TOCCOA  | DTVPLN             | DTVP0880 PLN    |
| 25A GA ATLANTA   | BLCDT              | 20020716AAH LIC |
| 26A TN KNOXVILLE   | DTVPLN             | DTVP0977 PLN    |
| 25A NC CHAPEL HILL   | USERRECORD01       | APP             |
| The following station failed the de minimis interference criteria. |                    |                 |
| 25D NC CHAPEL HILL   | USERRECORD01       |                 |

Figure 3

ERP 1000.00 kW HAAT 461.0 m RCAMSL 609.0 m  
Antenna CDB 00000000085994

Due to interference to the following station and scenario: 6  
25D NC ASHEVILLE BLEDT 20030401BAI  
ERP 185.00 kW HAAT 797.0 m RCAMSL 1783.0 m  
Antenna CDB 00000000041130

Percent new interference from proposal: 0.6637 to BLEDT 20030401BAI

Result key: 15  
Scenario 7 Affected station 3  
Before Analysis

Results for: 25A NC ASHEVILLE BLEDT 20030401BAI LIC  
HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2291120    | 35578.4      |
| not affected by terrain losses | 1893853    | 26927.1      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 66280      | 1049.6       |
| lost to ATV IX only            | 66280      | 1049.6       |
| lost to all IX                 | 66280      | 1049.6       |

Potential Interfering Stations Included in above Scenario 7

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 24A GA TOCCOA      | DTVPLN | DTVP0880    | PLN |
| 25A GA ATLANTA     | DTVPLN | DTVP0919    | PLN |
| 26A TN KNOXVILLE   | BMLCDT | 20041203AEG | LIC |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930    | PLN |

After Analysis

Results for: 25A NC ASHEVILLE BLEDT 20030401BAI LIC  
HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2291120    | 35578.4      |
| not affected by terrain losses | 1893853    | 26927.1      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 78411      | 1291.9       |
| lost to ATV IX only            | 78411      | 1291.9       |
| lost to all IX                 | 78411      | 1291.9       |

Potential Interfering Stations Included in above Scenario 7

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A GA TOCCOA      | DTVPLN       | DTVP0880    | PLN |
| 25A GA ATLANTA     | DTVPLN       | DTVP0919    | PLN |
| 26A TN KNOXVILLE   | BMLCDT       | 20041203AEG | LIC |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

The following station failed the de minimis interference criteria.  
25D NC CHAPEL HILL USERRECORD01  
ERP 1000.00 kW HAAT 461.0 m RCAMSL 609.0 m  
Antenna CDB 00000000085994

Due to interference to the following station and scenario: 7

Figure 3

25D NC ASHEVILLE BLEDT 20030401BAI  
ERP 185.00 kW HAAT 797.0 m RCAMSL 1783.0 m  
Antenna CDB 00000000041130

Percent new interference from proposal: 0.6638 to BLEDT 20030401BAI

Result key: 16  
Scenario 8 Affected station 3  
Before Analysis

Results for: 25A NC ASHEVILLE BLEDT 20030401BAI LIC  
HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2291120    | 35578.4      |
| not affected by terrain losses | 1893853    | 26927.1      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 66097      | 1045.6       |
| lost to ATV IX only            | 66097      | 1045.6       |
| lost to all IX                 | 66097      | 1045.6       |

Potential Interfering Stations Included in above Scenario 8

|                    |        |          |     |
|--------------------|--------|----------|-----|
| 24A GA TOCCOA      | DTVPLN | DTVP0880 | PLN |
| 25A GA ATLANTA     | DTVPLN | DTVP0919 | PLN |
| 26A TN KNOXVILLE   | DTVPLN | DTVP0977 | PLN |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930 | PLN |

After Analysis

Results for: 25A NC ASHEVILLE BLEDT 20030401BAI LIC  
HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2291120    | 35578.4      |
| not affected by terrain losses | 1893853    | 26927.1      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 78228      | 1287.8       |
| lost to ATV IX only            | 78228      | 1287.8       |
| lost to all IX                 | 78228      | 1287.8       |

Potential Interfering Stations Included in above Scenario 8

|                    |              |          |     |
|--------------------|--------------|----------|-----|
| 24A GA TOCCOA      | DTVPLN       | DTVP0880 | PLN |
| 25A GA ATLANTA     | DTVPLN       | DTVP0919 | PLN |
| 26A TN KNOXVILLE   | DTVPLN       | DTVP0977 | PLN |
| 25A NC CHAPEL HILL | USERRECORD01 |          | APP |

The following station failed the de minimis interference criteria.  
25D NC CHAPEL HILL USERRECORD01  
ERP 1000.00 kW HAAT 461.0 m RCAMSL 609.0 m  
Antenna CDB 00000000085994

Due to interference to the following station and scenario: 8  
25D NC ASHEVILLE BLEDT 20030401BAI  
ERP 185.00 kW HAAT 797.0 m RCAMSL 1783.0 m  
Antenna CDB 00000000041130

Figure 3

Percent new interference from proposal: 0.6637 to BLEDT 20030401BAI

Worst case new IX 0.6638% Scenario 5

#####

Analysis of Interference to Affected Station 4

Analysis of current record

| Channel | Call    | City/State   | Application | Ref. No. |
|---------|---------|--------------|-------------|----------|
| 25      | WUNF-TV | ASHEVILLE NC | DTVPLN      | -DTV0929 |

Stations Potentially Affecting This Station

| Chan | Call    | City/State     | Dist(km) | Status | Application   | Ref. No.     |
|------|---------|----------------|----------|--------|---------------|--------------|
| 24   | WNEG-TV | TOCCOA GA      | 106.1    | CP MOD | BMPCDT        | -20080410ABJ |
| 24   | WNEG-TV | TOCCOA GA      | 106.1    | PLN    | DTVPLN        | -DTV0880     |
| 24   | WKPI-TV | PIKEVILLE KY   | 207.7    | LIC    | BLEDT         | -20020313ABL |
| 24   | WKPI-TV | PIKEVILLE KY   | 207.7    | PLN    | DTVPLN        | -DTV0885     |
| 25   | WATL    | ATLANTA GA     | 230.9    | LIC    | BLCDDT        | -20020716AAH |
| 25   | WATL    | ATLANTA GA     | 230.9    | PLN    | DTVPLN        | -DTV0919     |
| 25   | WUNC-TV | CHAPEL HILL NC | 327.9    | PLN    | DTVPLN        | -DTV0930     |
| 26   | WATE-TV | KNOXVILLE TN   | 124.8    | LIC    | BMLCDT        | -20041203AEG |
| 26   | WATE-TV | KNOXVILLE TN   | 124.8    | PLN    | DTVPLN        | -DTV0977     |
| 25   | WUNC-TV | CHAPEL HILL NC | 327.9    | APP    | USERRECORD-01 |              |

Total scenarios = 8

Result key: 17

Scenario 1 Affected station 4

Before Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTV0929 PLN

HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 76627      | 1384.6       |
| lost to ATV IX only            | 76627      | 1384.6       |
| lost to all IX                 | 76627      | 1384.6       |

Potential Interfering Stations Included in above Scenario 1

|                    | BMPCDT | 20080410ABJ | CP  |
|--------------------|--------|-------------|-----|
| 24A GA TOCCOA      | BMLCDT | 20020716AAH | LIC |
| 25A GA ATLANTA     | BMLCDT | 20041203AEG | LIC |
| 26A TN KNOXVILLE   | DTVPLN | DTV0930     | PLN |
| 25A NC CHAPEL HILL |        |             |     |

After Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTV0929 PLN

HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |

Figure 3

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 84076      | 1534.0       |
| lost to ATV IX only            | 84076      | 1534.0       |
| lost to all IX                 | 84076      | 1534.0       |

Potential Interfering Stations Included in above Scenario 1

|                    | BMPCDT       | 20080410ABJ | CP  |
|--------------------|--------------|-------------|-----|
| 24A GA TOCCOA      | BLCDDT       | 20020716AAH | LIC |
| 25A GA ATLANTA     | BMLCDT       | 20041203AEG | LIC |
| 26A TN KNOXVILLE   | USERRECORD01 |             | APP |
| 25A NC CHAPEL HILL |              |             |     |

The following station failed the de minimis interference criteria.

25D NC CHAPEL HILL USERRECORD01

ERP 1000.00 kW HAAT 461.0 m RCAMSL 609.0 m

Antenna CDB 00000000085994

Due to interference to the following station and scenario: 1

25D NC ASHEVILLE DTVPLN DTV0929

ERP 185.00 kW HAAT 797.0 m RCAMSL 1783.0 m

Antenna CDB 00000000041130

Percent new interference from proposal: 0.5134 to DTVPLN DTV0929

Result key: 18

Scenario 2 Affected station 4

Before Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTV0929 PLN

HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 76627      | 1384.6       |
| lost to ATV IX only            | 76627      | 1384.6       |
| lost to all IX                 | 76627      | 1384.6       |

Potential Interfering Stations Included in above Scenario 2

|                    | BMPCDT | 20080410ABJ | CP  |
|--------------------|--------|-------------|-----|
| 24A GA TOCCOA      | BLCDDT | 20020716AAH | LIC |
| 25A GA ATLANTA     | DTVPLN | DTV0977     | PLN |
| 26A TN KNOXVILLE   | DTVPLN | DTV0930     | PLN |
| 25A NC CHAPEL HILL |        |             |     |

After Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTV0929 PLN

HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |



Figure 3

lost to additional IX by ATV 84076 1534.0  
lost to ATV IX only 84076 1534.0  
lost to all IX 84076 1534.0

Potential Interfering Stations Included in above Scenario 2

24A GA TOCCOA BMPCDT 20080410ABJ CP  
25A GA ATLANTA BLCDT 20020716AAH LIC  
26A TN KNOXVILLE DTVPLN DTVP0977 PLN  
25A NC CHAPEL HILL USERRECORD01 APP

The following station failed the de minimis interference criteria.  
25D NC CHAPEL HILL USERRECORD01  
ERP 1000.00 kW HAAT 461.0 m RCAMSL 609.0 m  
Antenna CDB 00000000085994

Due to interference to the following station and scenario: 2  
25D NC ASHEVILLE DTVPLN DTVP0929  
ERP 185.00 kW HAAT 797.0 m RCAMSL 1783.0 m  
Antenna CDB 00000000041130

Percent new interference from proposal: 0.5134 to DTVPLN DTVP0929

Result key: 19  
Scenario 3 Affected station 4  
Before Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTVP0929 PLN  
HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 76627      | 1384.6       |
| lost to ATV IX only            | 76627      | 1384.6       |
| lost to all IX                 | 76627      | 1384.6       |

Potential Interfering Stations Included in above Scenario 3

24A GA TOCCOA BMPCDT 20080410ABJ CP  
25A GA ATLANTA DTVPLN DTVP0919 PLN  
26A TN KNOXVILLE BMLCDT 20041203AEG LIC  
25A NC CHAPEL HILL DTVPLN DTVP0930 PLN

After Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTVP0929 PLN  
HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 84076      | 1534.0       |
| lost to ATV IX only            | 84076      | 1534.0       |
| lost to all IX                 | 84076      | 1534.0       |

Figure 3

Potential Interfering Stations Included in above Scenario 3

24A GA TOCCOA BMPCDT 20080410ABJ CP  
25A GA ATLANTA DTVPLN DTVP0919 PLN  
26A TN KNOXVILLE BMLCDT 20041203AEG LIC  
25A NC CHAPEL HILL USERRECORD01 APP

The following station failed the de minimis interference criteria.  
25D NC CHAPEL HILL USERRECORD01  
ERP 1000.00 kW HAAT 461.0 m RCAMSL 609.0 m  
Antenna CDB 00000000085994

Due to interference to the following station and scenario: 3  
25D NC ASHEVILLE DTVPLN DTVP0929  
ERP 185.00 kW HAAT 797.0 m RCAMSL 1783.0 m  
Antenna CDB 00000000041130

Percent new interference from proposal: 0.5134 to DTVPLN DTVP0929

Result key: 20  
Scenario 4 Affected station 4  
Before Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTVP0929 PLN  
HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 76627      | 1384.6       |
| lost to ATV IX only            | 76627      | 1384.6       |
| lost to all IX                 | 76627      | 1384.6       |

Potential Interfering Stations Included in above Scenario 4

24A GA TOCCOA BMPCDT 20080410ABJ CP  
25A GA ATLANTA DTVPLN DTVP0919 PLN  
26A TN KNOXVILLE DTVPLN DTVP0977 PLN  
25A NC CHAPEL HILL DTVPLN DTVP0930 PLN

After Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTVP0929 PLN  
HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 84076      | 1534.0       |
| lost to ATV IX only            | 84076      | 1534.0       |
| lost to all IX                 | 84076      | 1534.0       |

Potential Interfering Stations Included in above Scenario 4

24A GA TOCCOA BMPCDT 20080410ABJ CP  
25A GA ATLANTA DTVPLN DTVP0919 PLN

Figure 3

26A TN KNOXVILLE                    DTVPLN    DTVP0977    PLN  
25A NC CHAPEL HILL                    USERRECORD01                    APP

The following station failed the de minimis interference criteria.  
25D NC CHAPEL HILL                    USERRECORD01  
ERP 1000.00 kW   HAAT    461.0 m   RCAMSL    609.0 m  
Antenna CDB 00000000085994

Due to interference to the following station and scenario:                    4  
25D NC ASHEVILLE                    DTVPLN    DTVP0929  
ERP 185.00 kW   HAAT    797.0 m   RCAMSL    1783.0 m  
Antenna CDB 00000000041130

Percent new interference from proposal:                    0.5134 to DTVPLN                    DTVP0929

Result key:                    21  
Scenario                    5   Affected station                    4  
Before Analysis

Results for: 25A NC ASHEVILLE                    DTVPLN    DTVP0929    PLN  
HAAT    797.0 m, ATV ERP    185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 87999      | 1517.9       |
| lost to ATV IX only            | 87999      | 1517.9       |
| lost to all IX                 | 87999      | 1517.9       |

Potential Interfering Stations Included in above Scenario                    5

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 24A GA TOCCOA      | DTVPLN | DTVP0880    | PLN |
| 25A GA ATLANTA     | BLCDT  | 20020716AAH | LIC |
| 26A TN KNOXVILLE   | BMLCDT | 20041203AEG | LIC |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930    | PLN |

After Analysis

Results for: 25A NC ASHEVILLE                    DTVPLN    DTVP0929    PLN  
HAAT    797.0 m, ATV ERP    185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 95448      | 1667.2       |
| lost to ATV IX only            | 95448      | 1667.2       |
| lost to all IX                 | 95448      | 1667.2       |

Potential Interfering Stations Included in above Scenario                    5

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A GA TOCCOA      | DTVPLN       | DTVP0880    | PLN |
| 25A GA ATLANTA     | BLCDT        | 20020716AAH | LIC |
| 26A TN KNOXVILLE   | BMLCDT       | 20041203AEG | LIC |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

The following station failed the de minimis interference criteria.

Figure 3

25D NC CHAPEL HILL                    USERRECORD01  
ERP 1000.00 kW   HAAT    461.0 m   RCAMSL    609.0 m  
Antenna CDB 00000000085994

Due to interference to the following station and scenario:                    5  
25D NC ASHEVILLE                    DTVPLN    DTVP0929  
ERP 185.00 kW   HAAT    797.0 m   RCAMSL    1783.0 m  
Antenna CDB 00000000041130

Percent new interference from proposal:                    0.5174 to DTVPLN                    DTVP0929

Result key:                    22  
Scenario                    6   Affected station                    4  
Before Analysis

Results for: 25A NC ASHEVILLE                    DTVPLN    DTVP0929    PLN  
HAAT    797.0 m, ATV ERP    185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 87999      | 1517.9       |
| lost to ATV IX only            | 87999      | 1517.9       |
| lost to all IX                 | 87999      | 1517.9       |

Potential Interfering Stations Included in above Scenario                    6

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 24A GA TOCCOA      | DTVPLN | DTVP0880    | PLN |
| 25A GA ATLANTA     | BLCDT  | 20020716AAH | LIC |
| 26A TN KNOXVILLE   | DTVPLN | DTVP0977    | PLN |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930    | PLN |

After Analysis

Results for: 25A NC ASHEVILLE                    DTVPLN    DTVP0929    PLN  
HAAT    797.0 m, ATV ERP    185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 95448      | 1667.2       |
| lost to ATV IX only            | 95448      | 1667.2       |
| lost to all IX                 | 95448      | 1667.2       |

Potential Interfering Stations Included in above Scenario                    6

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A GA TOCCOA      | DTVPLN       | DTVP0880    | PLN |
| 25A GA ATLANTA     | BLCDT        | 20020716AAH | LIC |
| 26A TN KNOXVILLE   | DTVPLN       | DTVP0977    | PLN |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

The following station failed the de minimis interference criteria.  
25D NC CHAPEL HILL                    USERRECORD01  
ERP 1000.00 kW   HAAT    461.0 m   RCAMSL    609.0 m  
Antenna CDB 00000000085994

Figure 3

Due to interference to the following station and scenario: 6  
 25D NC ASHEVILLE DTVPLN DTVP0929  
 ERP 185.00 kW HAAT 797.0 m RCAMSL 1783.0 m  
 Antenna CDB 00000000041130

Percent new interference from proposal: 0.5174 to DTVPLN DTVP0929

Result key: 23  
 Scenario 7 Affected station 4  
 Before Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTVP0929 PLN  
 HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 87999      | 1517.9       |
| lost to ATV IX only            | 87999      | 1517.9       |
| lost to all IX                 | 87999      | 1517.9       |

Potential Interfering Stations Included in above Scenario 7

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 24A GA TOCCOA      | DTVPLN | DTVP0880    | PLN |
| 25A GA ATLANTA     | DTVPLN | DTVP0919    | PLN |
| 26A TN KNOXVILLE   | BMLCDT | 20041203AEG | LIC |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930    | PLN |

After Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTVP0929 PLN  
 HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 95448      | 1667.2       |
| lost to ATV IX only            | 95448      | 1667.2       |
| lost to all IX                 | 95448      | 1667.2       |

Potential Interfering Stations Included in above Scenario 7

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 24A GA TOCCOA      | DTVPLN       | DTVP0880    | PLN |
| 25A GA ATLANTA     | DTVPLN       | DTVP0919    | PLN |
| 26A TN KNOXVILLE   | BMLCDT       | 20041203AEG | LIC |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

The following station failed the de minimis interference criteria.  
 25D NC CHAPEL HILL USERRECORD01  
 ERP 1000.00 kW HAAT 461.0 m RCAMSL 609.0 m  
 Antenna CDB 00000000085994

Due to interference to the following station and scenario: 7  
 25D NC ASHEVILLE DTVPLN DTVP0929  
 ERP 185.00 kW HAAT 797.0 m RCAMSL 1783.0 m  
 Antenna CDB 00000000041130

Figure 3

Percent new interference from proposal: 0.5174 to DTVPLN DTVP0929

Result key: 24  
 Scenario 8 Affected station 4  
 Before Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTVP0929 PLN  
 HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 87999      | 1517.9       |
| lost to ATV IX only            | 87999      | 1517.9       |
| lost to all IX                 | 87999      | 1517.9       |

Potential Interfering Stations Included in above Scenario 8

|                    |        |          |     |
|--------------------|--------|----------|-----|
| 24A GA TOCCOA      | DTVPLN | DTVP0880 | PLN |
| 25A GA ATLANTA     | DTVPLN | DTVP0919 | PLN |
| 26A TN KNOXVILLE   | DTVPLN | DTVP0977 | PLN |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930 | PLN |

After Analysis

Results for: 25A NC ASHEVILLE DTVPLN DTVP0929 PLN  
 HAAT 797.0 m, ATV ERP 185.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 2003938    | 34337.6      |
| not affected by terrain losses | 1527604    | 23942.6      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 95448      | 1667.2       |
| lost to ATV IX only            | 95448      | 1667.2       |
| lost to all IX                 | 95448      | 1667.2       |

Potential Interfering Stations Included in above Scenario 8

|                    |              |          |     |
|--------------------|--------------|----------|-----|
| 24A GA TOCCOA      | DTVPLN       | DTVP0880 | PLN |
| 25A GA ATLANTA     | DTVPLN       | DTVP0919 | PLN |
| 26A TN KNOXVILLE   | DTVPLN       | DTVP0977 | PLN |
| 25A NC CHAPEL HILL | USERRECORD01 |          | APP |

The following station failed the de minimis interference criteria.  
 25D NC CHAPEL HILL USERRECORD01  
 ERP 1000.00 kW HAAT 461.0 m RCAMSL 609.0 m  
 Antenna CDB 00000000085994

Due to interference to the following station and scenario: 8  
 25D NC ASHEVILLE DTVPLN DTVP0929  
 ERP 185.00 kW HAAT 797.0 m RCAMSL 1783.0 m  
 Antenna CDB 00000000041130

Percent new interference from proposal: 0.5174 to DTVPLN DTVP0929

Figure 3

Worst case new IX 0.5174% Scenario 5

#####

#### Analysis of Interference to Affected Station 5

#### Analysis of current record

| Channel | Call    | City/State   | Application Ref. No. |
|---------|---------|--------------|----------------------|
| 25      | WKPT-LP | KINGSPORT TN | BLTT -19871119IB     |

#### Stations Potentially Affecting This Station

| Chan | Call    | City/State     | Dist(km) | Status | Application Ref. No. |
|------|---------|----------------|----------|--------|----------------------|
| 17   | WUNE-TV | LINVILLE NC    | 84.3     | PLN    | DTVPLN -DTVP0607     |
| 17   | WUNE-TV | LINVILLE NC    | 84.2     | CP     | BPEDT -20080331AEO   |
| 17   | WKOP-TV | KNOXVILLE TN   | 136.2    | LIC    | BLEDT -20040405ACC   |
| 17   | WKOP-TV | KNOXVILLE TN   | 136.2    | PLN    | DTVPLN -DTVP0621     |
| 24   | WKPI-TV | PIKEVILLE KY   | 84.5     | LIC    | BLEDT -20020313ABL   |
| 24   | WKPI-TV | PIKEVILLE KY   | 84.5     | PLN    | DTVPLN -DTVP0885     |
| 25   | WATL    | ATLANTA GA     | 341.6    | LIC    | BLCDT -20020716AAH   |
| 25   | WATL    | ATLANTA GA     | 341.6    | PLN    | DTVPLN -DTVP0919     |
| 25   | WKAS    | ASHLAND KY     | 215.1    | LIC    | BLBT -423            |
| 25   | W24BT   | LEXINGTON KY   | 232.5    | APP    | BPTTL -20011010AAH   |
| 25   | WUNF-TV | ASHEVILLE NC   | 123.3    | LIC    | BLEDT -20030401BAI   |
| 25   | WUNF-TV | ASHEVILLE NC   | 123.3    | PLN    | DTVPLN -DTVP0929     |
| 25   | WJTV-LP | ASHEVILLE NC   | 111.4    | LIC    | BLTTL -19990120JB    |
| 25   | WUNC-TV | CHAPEL HILL NC | 315.5    | CP     | BPEDT -20080401AEW   |
| 25   | WUNC-TV | CHAPEL HILL NC | 315.5    | PLN    | DTVPLN -DTVP0930     |
| 25   | W25AY   | JEFFERSON NC   | 98.4     | LIC    | BLTT -19910123ID     |
| 25   | WOLO-TV | COLUMBIA SC    | 314.8    | LIC    | BLCT -20010129ADD    |
| 27   | WUNW    | CANTON NC      | 110.3    | APP    | BPEDT -20080402AAN   |
| 27   | WKPT-TV | KINGSPORT TN   | 41.6     | CP MOD | BMPCDT -20050303AAJ  |
| 27   | WKPT-TV | KINGSPORT TN   | 41.5     | PLN    | DTVPLN -DTVP1017     |
| 32   | WSBN-TV | NORTON VA      | 41.4     | LIC    | BLEDT -20030428ABR   |
| 32   | WSBN-TV | NORTON VA      | 41.4     | PLN    | DTVPLN -DTVP1202     |
| 39   | WEMT    | GREENEVILLE TN | 57.1     | LIC    | BLCT -20050411ABB    |
| 40   | WHKY-TV | HICKORY NC     | 143.2    | LIC    | BLCDT -20060630ABW   |
| 40   | WHKY-TV | HICKORY NC     | 143.2    | PLN    | DTVPLN -DTVP1444     |
| 40   | WLFB    | BLUEFIELD WV   | 140.8    | LIC    | BLCT -20001121AIB    |
| 40   | WLFB    | BLUEFIELD WV   | 140.8    | PLN    | DTVPLN -DTVP1459     |
| 40   | WLFB    | BLUEFIELD WV   | 140.8    | APP    | BPEDT -20080317AIS   |
| 25   | WUNC-TV | CHAPEL HILL NC | 315.5    | APP    | USERRECORD-01        |

Proposal causes no interference

#####

#### Analysis of Interference to Affected Station 6

#### Analysis of current record

| Channel | Call    | City/State   | Application Ref. No. |
|---------|---------|--------------|----------------------|
| 25      | WKPT-LP | KINGSPORT TN | BSTA -20060331AXC    |

#### Stations Potentially Affecting This Station

| Chan | Call    | City/State        | Dist(km) | Status | Application Ref. No. |
|------|---------|-------------------|----------|--------|----------------------|
| 22   | WRIC-TV | PETERSBURG VA     | 140.5    | LIC    | BLCDT -20021112ACD   |
| 22   | WRIC-TV | PETERSBURG VA     | 140.5    | PLN    | DTVPLN -DTVP0828     |
| 24   | W24OI   | VIRGINIA BEACH VA | 27.3     | LIC    | BLTT -19960603JA     |
| 25   | WHAG-TV | HAGERSTOWN MD     | 349.3    | CP     | BPCT -20021203ACY    |
| 25   | WUNC-TV | CHAPEL HILL NC    | 278.8    | CP     | BPEDT -20080401AEW   |
| 25   | WUNC-TV | CHAPEL HILL NC    | 278.8    | PLN    | DTVPLN -DTVP0930     |
| 25   | WUNK-TV | GREENVILLE NC     | 183.2    | LIC    | BLBT -20050713ABQ    |
| 25   | WTVR-TV | RICHMOND VA       | 140.5    | LIC    | BLCDT -20021204ABA   |
| 25   | WTVR-TV | RICHMOND VA       | 140.5    | PLN    | DTVPLN -DTVP0939     |

Figure 3

| Chan | Call    | City/State       | Dist(km) | Status | Application Ref. No. |
|------|---------|------------------|----------|--------|----------------------|
| 17   | WUNE-TV | LINVILLE NC      | 84.3     | PLN    | DTVPLN -DTVP0607     |
| 17   | WUNE-TV | LINVILLE NC      | 84.2     | CP     | BPEDT -20080331AEO   |
| 17   | WKOP-TV | KNOXVILLE TN     | 136.2    | LIC    | BLEDT -20040405ACC   |
| 17   | WKOP-TV | KNOXVILLE TN     | 136.2    | PLN    | DTVPLN -DTVP0621     |
| 24   | WKPI-TV | PIKEVILLE KY     | 84.5     | LIC    | BLEDT -20020313ABL   |
| 24   | WKPI-TV | PIKEVILLE KY     | 84.5     | PLN    | DTVPLN -DTVP0885     |
| 25   | WATL    | ATLANTA GA       | 341.6    | LIC    | BLCDT -20020716AAH   |
| 25   | WATL    | ATLANTA GA       | 341.6    | PLN    | DTVPLN -DTVP0919     |
| 25   | WKAS    | ASHLAND KY       | 215.1    | LIC    | BLBT -423            |
| 25   | W24BT   | LEXINGTON KY     | 232.5    | APP    | BPTTL -20011010AAH   |
| 25   | WUNF-TV | ASHEVILLE NC     | 123.3    | LIC    | BLEDT -20030401BAI   |
| 25   | WUNF-TV | ASHEVILLE NC     | 123.3    | PLN    | DTVPLN -DTVP0929     |
| 25   | WJTV-LP | ASHEVILLE NC     | 111.4    | LIC    | BLTTL -19990120JB    |
| 25   | WUNC-TV | CHAPEL HILL NC   | 315.5    | CP     | BPEDT -20080401AEW   |
| 25   | WUNC-TV | CHAPEL HILL NC   | 315.5    | PLN    | DTVPLN -DTVP0930     |
| 25   | W25AY   | JEFFERSON NC     | 98.4     | LIC    | BLTT -19910123ID     |
| 25   | WOLO-TV | COLUMBIA SC      | 314.8    | LIC    | BLCT -20010129ADD    |
| 25   | WEDD-LP | ROANOKE, ETC. VA | 228.5    | CP     | BDISTTL -20070123ABM |
| 27   | WUNW    | CANTON NC        | 110.3    | APP    | BPEDT -20080402AAN   |
| 27   | WKPT-TV | KINGSPORT TN     | 41.6     | CP MOD | BMPCDT -20050303AAJ  |
| 27   | WKPT-TV | KINGSPORT TN     | 41.5     | PLN    | DTVPLN -DTVP1017     |
| 32   | WSBN-TV | NORTON VA        | 41.4     | LIC    | BLEDT -20030428ABR   |
| 32   | WSBN-TV | NORTON VA        | 41.4     | PLN    | DTVPLN -DTVP1202     |
| 39   | WEMT    | GREENEVILLE TN   | 57.1     | LIC    | BLCT -20050411ABB    |
| 40   | WHKY-TV | HICKORY NC       | 143.2    | LIC    | BLCDT -20060630ABW   |
| 40   | WHKY-TV | HICKORY NC       | 143.2    | PLN    | DTVPLN -DTVP1444     |
| 40   | WLFB    | BLUEFIELD WV     | 140.8    | LIC    | BLCT -20001121AIB    |
| 40   | WLFB    | BLUEFIELD WV     | 140.8    | PLN    | DTVPLN -DTVP1459     |
| 40   | WLFB    | BLUEFIELD WV     | 140.8    | APP    | BPEDT -20080317AIS   |
| 25   | WUNC-TV | CHAPEL HILL NC   | 315.5    | APP    | USERRECORD-01        |

Proposed station is beyond the site to  
nearest cell evaluation distance

#####

#### Analysis of Interference to Affected Station 7

#### Analysis of current record

| Channel | Call  | City/State    | Application Ref. No. |
|---------|-------|---------------|----------------------|
| 25      | W25CS | CHESAPEAKE VA | BLTTL -20021216AAN   |

#### Stations Potentially Affecting This Station

Figure 3

```

29  WVBTVIRGINIA BEACH VA20.4 LIC  BLCDDT-20020326ABB
29  WVBTVIRGINIA BEACH VA20.4 PLN  DTVPLN-DTVP1097
33  WTVZ-TVNORFOLK VA19.7 PLN  DTVPLN-DTVP1233
33  WTVZ-TVNORFOLK VA19.7 CP    BPCDDT-20080317AGK
40  WTKRNORFOLK VA19.7 LIC  BLCDDT-20050617AAW
40  WTKRNORFOLK VA19.7 PLN  DTVPLN-DTVP1457
25  WUNC-TVCHAPEL HILL NC278.8 APP  USERRECORD-01
Proposal causes no interference

```

```
#####
```

Analysis of Interference to Affected Station 8

Analysis of current record

| Channel | Call    | City/State  | Application Ref. No. |
|---------|---------|-------------|----------------------|
| 25      | WTVR-TV | RICHMOND VA | BLCDDT -20021204ABA  |

Stations Potentially Affecting This Station

| Chan | Call    | City/State     | Dist(km) | Status | Application Ref. No. |
|------|---------|----------------|----------|--------|----------------------|
| 24   | WDRL-TV | DANVILLE VA    | 179.6    | PLN    | DTVPLN -DTVP0908     |
| 24   | WDRL-TV | DANVILLE VA    | 183.0    | APP    | BPCDDT -20080317AIL  |
| 24   | WNVC    | FAIRFAX VA     | 154.9    | CP     | BPEDT -20080221ACD   |
| 24   | WNVC    | FAIRFAX VA     | 154.9    | PLN    | DTVPLN -DTVP0909     |
| 25   | WUNC-TV | CHAPEL HILL NC | 230.1    | PLN    | DTVPLN -DTVP0930     |
| 25   | KDKA-TV | PITTSBURGH PA  | 391.7    | LIC    | BLCDDT -20041004ACS  |
| 25   | KDKA-TV | PITTSBURGH PA  | 391.7    | PLN    | DTVPLN -DTVP0934     |
| 25   | WTVE    | READING PA     | 354.0    | CP     | BPCDDT -20040518AAZ  |
| 25   | WTVE    | READING PA     | 354.0    | PLN    | DTVPLN -DTVP0935     |
| 25   | WTVE    | READING PA     | 348.4    | LIC    | BLCDDT -20040323ATZ  |
| 26   | WRLH-TV | RICHMOND VA    | 0.0      | CP MOD | BMPCDDT -20040507ABE |
| 26   | WRLH-TV | RICHMOND VA    | 0.0      | PLN    | DTVPLN -DTVP0982     |
| 25   | WUNC-TV | CHAPEL HILL NC | 230.1    | APP    | USERRECORD-01        |

Total scenarios = 2

Result key: 25  
Scenario 1 Affected station 8  
Before Analysis

| Results for: 25A VA RICHMOND   |                  | BLCDDT       | 20021204ABA | LIC |
|--------------------------------|------------------|--------------|-------------|-----|
| HAAT                           | 347.0 m, ATV ERP | 410.0 kW     |             |     |
|                                | POPULATION       | AREA (sq km) |             |     |
| within Noise Limited Contour   | 1536331          | 29017.9      |             |     |
| not affected by terrain losses | 1532185          | 28868.8      |             |     |
| lost to NTSC IX                | 0                | 0.0          |             |     |
| lost to additional IX by ATV   | 563              | 40.3         |             |     |
| lost to ATV IX only            | 563              | 40.3         |             |     |
| lost to all IX                 | 563              | 40.3         |             |     |

Potential Interfering Stations Included in above Scenario 1

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 25A PA READING     | BPCDDT | 20040518AAZ | CP  |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930    | PLN |

Figure 3

After Analysis

| Results for: 25A VA RICHMOND   |                  | BLCDDT       | 20021204ABA | LIC |
|--------------------------------|------------------|--------------|-------------|-----|
| HAAT                           | 347.0 m, ATV ERP | 410.0 kW     |             |     |
|                                | POPULATION       | AREA (sq km) |             |     |
| within Noise Limited Contour   | 1536331          | 29017.9      |             |     |
| not affected by terrain losses | 1532185          | 28868.8      |             |     |
| lost to NTSC IX                | 0                | 0.0          |             |     |
| lost to additional IX by ATV   | 736              | 76.6         |             |     |
| lost to ATV IX only            | 736              | 76.6         |             |     |
| lost to all IX                 | 736              | 76.6         |             |     |

Potential Interfering Stations Included in above Scenario 1

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 25A PA READING     | BPCDDT       | 20040518AAZ | CP  |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

Percent new IX = 0.0113%

Result key: 26  
Scenario 2 Affected station 8  
Before Analysis

| Results for: 25A VA RICHMOND   |                  | BLCDDT       | 20021204ABA | LIC |
|--------------------------------|------------------|--------------|-------------|-----|
| HAAT                           | 347.0 m, ATV ERP | 410.0 kW     |             |     |
|                                | POPULATION       | AREA (sq km) |             |     |
| within Noise Limited Contour   | 1536331          | 29017.9      |             |     |
| not affected by terrain losses | 1532185          | 28868.8      |             |     |
| lost to NTSC IX                | 0                | 0.0          |             |     |
| lost to additional IX by ATV   | 563              | 40.3         |             |     |
| lost to ATV IX only            | 563              | 40.3         |             |     |
| lost to all IX                 | 563              | 40.3         |             |     |

Potential Interfering Stations Included in above Scenario 2

|                    |        |          |     |
|--------------------|--------|----------|-----|
| 25A PA READING     | DTVPLN | DTVP0935 | PLN |
| 25A NC CHAPEL HILL | DTVPLN | DTVP0930 | PLN |

After Analysis

| Results for: 25A VA RICHMOND   |                  | BLCDDT       | 20021204ABA | LIC |
|--------------------------------|------------------|--------------|-------------|-----|
| HAAT                           | 347.0 m, ATV ERP | 410.0 kW     |             |     |
|                                | POPULATION       | AREA (sq km) |             |     |
| within Noise Limited Contour   | 1536331          | 29017.9      |             |     |
| not affected by terrain losses | 1532185          | 28868.8      |             |     |
| lost to NTSC IX                | 0                | 0.0          |             |     |
| lost to additional IX by ATV   | 736              | 76.6         |             |     |
| lost to ATV IX only            | 736              | 76.6         |             |     |
| lost to all IX                 | 736              | 76.6         |             |     |

Potential Interfering Stations Included in above Scenario 2

|                    |              |          |     |
|--------------------|--------------|----------|-----|
| 25A PA READING     | DTVPLN       | DTVP0935 | PLN |
| 25A NC CHAPEL HILL | USERRECORD01 |          | APP |

Percent new IX = 0.0113%

Figure 3

Worst case new IX 0.0113% Scenario 1

#####

Analysis of Interference to Affected Station 9

Analysis of current record

| Channel | Call    | City/State  | Application | Ref. No.  |
|---------|---------|-------------|-------------|-----------|
| 25      | WTVR-TV | RICHMOND VA | DTVPLN      | -DTPV0939 |

Stations Potentially Affecting This Station

| Chan | Call    | City/State     | Dist(km) | Status | Application   | Ref. No.     |
|------|---------|----------------|----------|--------|---------------|--------------|
| 24   | WDRL-TV | DANVILLE VA    | 179.6    | PLN    | DTVPLN        | -DTPV0908    |
| 24   | WDRL-TV | DANVILLE VA    | 183.0    | APP    | BPCDT         | -20080317AIL |
| 24   | WNVC    | FAIRFAX VA     | 154.9    | CP     | BPEDT         | -20080221ACD |
| 24   | WNVC    | FAIRFAX VA     | 154.9    | PLN    | DTVPLN        | -DTPV0909    |
| 25   | WUNC-TV | CHAPEL HILL NC | 230.1    | PLN    | DTVPLN        | -DTPV0930    |
| 25   | KDKA-TV | PITTSBURGH PA  | 391.7    | LIC    | BLCDT         | -20041004ACS |
| 25   | KDKA-TV | PITTSBURGH PA  | 391.7    | PLN    | DTVPLN        | -DTPV0934    |
| 25   | WTVE    | READING PA     | 354.0    | CP     | BPCDT         | -20040518AAZ |
| 25   | WTVE    | READING PA     | 354.0    | PLN    | DTVPLN        | -DTPV0935    |
| 25   | WTVE    | READING PA     | 348.4    | LIC    | BLCDT         | -20040323ATZ |
| 26   | WRLH-TV | RICHMOND VA    | 0.0      | CP MOD | BMPCDT        | -20040507ABE |
| 26   | WRLH-TV | RICHMOND VA    | 0.0      | PLN    | DTVPLN        | -DTPV0982    |
| 25   | WUNC-TV | CHAPEL HILL NC | 230.1    | APP    | USERRECORD-01 |              |

Total scenarios = 2

Result key: 27

Scenario 1 Affected station 9

Before Analysis

Results for: 25A VA RICHMOND DTVPLN DTPV0939 PLN

HAAT 347.0 m, ATV ERP 410.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 1536331    | 29017.9      |
| not affected by terrain losses | 1532185    | 28868.8      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 563        | 40.3         |
| lost to ATV IX only            | 563        | 40.3         |
| lost to all IX                 | 563        | 40.3         |

Potential Interfering Stations Included in above Scenario 1

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 25A PA READING     | BPCDT  | 20040518AAZ | CP  |
| 25A NC CHAPEL HILL | DTVPLN | DTPV0930    | PLN |

After Analysis

Results for: 25A VA RICHMOND DTVPLN DTPV0939 PLN

HAAT 347.0 m, ATV ERP 410.0 kW

|  | POPULATION | AREA (sq km) |
|--|------------|--------------|
|--|------------|--------------|

Figure 3

|                                |         |         |
|--------------------------------|---------|---------|
| within Noise Limited Contour   | 1536331 | 29017.9 |
| not affected by terrain losses | 1532185 | 28868.8 |
| lost to NTSC IX                | 0       | 0.0     |
| lost to additional IX by ATV   | 736     | 76.6    |
| lost to ATV IX only            | 736     | 76.6    |
| lost to all IX                 | 736     | 76.6    |

Potential Interfering Stations Included in above Scenario 1

|                    |              |             |     |
|--------------------|--------------|-------------|-----|
| 25A PA READING     | BPCDT        | 20040518AAZ | CP  |
| 25A NC CHAPEL HILL | USERRECORD01 |             | APP |

Percent new IX = 0.0113%

Result key: 28

Scenario 2 Affected station 9

Before Analysis

Results for: 25A VA RICHMOND DTVPLN DTPV0939 PLN

HAAT 347.0 m, ATV ERP 410.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 1536331    | 29017.9      |
| not affected by terrain losses | 1532185    | 28868.8      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 563        | 40.3         |
| lost to ATV IX only            | 563        | 40.3         |
| lost to all IX                 | 563        | 40.3         |

Potential Interfering Stations Included in above Scenario 2

|                    |        |          |     |
|--------------------|--------|----------|-----|
| 25A PA READING     | DTVPLN | DTPV0935 | PLN |
| 25A NC CHAPEL HILL | DTVPLN | DTPV0930 | PLN |

After Analysis

Results for: 25A VA RICHMOND DTVPLN DTPV0939 PLN

HAAT 347.0 m, ATV ERP 410.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 1536331    | 29017.9      |
| not affected by terrain losses | 1532185    | 28868.8      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 736        | 76.6         |
| lost to ATV IX only            | 736        | 76.6         |
| lost to all IX                 | 736        | 76.6         |

Potential Interfering Stations Included in above Scenario 2

|                    |              |          |     |
|--------------------|--------------|----------|-----|
| 25A PA READING     | DTVPLN       | DTPV0935 | PLN |
| 25A NC CHAPEL HILL | USERRECORD01 |          | APP |

Percent new IX = 0.0113%

Worst case new IX 0.0113% Scenario 1

#####

Figure 3

Analysis of Interference to Affected Station 10

Analysis of current record

| Channel | Call    | City/State             | Application Ref. No. |
|---------|---------|------------------------|----------------------|
| 25      | WAZM-CA | STAUNTON-WAYNESBORO VA | BLTTL -20011107ABW   |

Stations Potentially Affecting This Station

| Chan | Call    | City/State         | Dist(km) | Status | Application Ref. No. |
|------|---------|--------------------|----------|--------|----------------------|
| 21   | WVPY    | FRONT ROYAL VA     | 73.7     | LIC    | BLEDT -20021220ADZ   |
| 21   | WVPY    | FRONT ROYAL VA     | 73.7     | PLN    | DTVPLN -DTVP0787     |
| 22   | WRIC-TV | PETERSBURG VA      | 141.7    | LIC    | BLCDT -20021112ACD   |
| 22   | WRIC-TV | PETERSBURG VA      | 141.7    | PLN    | DTVPLN -DTVP0828     |
| 24   | WAZH-CA | HARRISONBURG VA    | 51.9     | LIC    | BLTTL -19960823JC    |
| 25   | WKAS    | ASHLAND KY         | 335.3    | LIC    | BLET -423            |
| 25   | WQAW-LP | BOWIE MD           | 199.6    | APP    | BDISTTL -20060120ADQ |
| 25   | WHAG-TV | HAGERSTOWN MD      | 157.3    | CP     | BPCT -20021203ACY    |
| 25   | WUNC-TV | CHAPEL HILL NC     | 283.0    | CP     | BPEDT -20080401AEW   |
| 25   | WUNC-TV | CHAPEL HILL NC     | 283.0    | PLN    | DTVPLN -DTVP0930     |
| 25   | WUNK-TV | GREENVILLE NC      | 332.3    | LIC    | BLET -20050713ABQ    |
| 25   | KDKA-TV | PITTSBURGH PA      | 256.9    | LIC    | BLCDT -20041004ACS   |
| 25   | KDKA-TV | PITTSBURGH PA      | 256.9    | PLN    | DTVPLN -DTVP0934     |
| 25   | WTVE    | READING PA         | 340.9    | CP     | BPCT -20040518AAZ    |
| 25   | WTVE    | READING PA         | 340.9    | PLN    | DTVPLN -DTVP0935     |
| 25   | WTVE    | READING PA         | 329.2    | LIC    | BLCDT -20040323ATZ   |
| 25   | WTVR-TV | RICHMOND VA        | 141.7    | LIC    | BLCDT -20021204ABA   |
| 25   | WTVR-TV | RICHMOND VA        | 141.7    | PLN    | DTVPLN -DTVP0939     |
| 25   | WEDD-LP | ROANOKE, ETC. VA   | 180.6    | CP     | BDISTTL -20070123ABM |
| 32   | WVIR-TV | CHARLOTTESVILLE VA | 52.0     | LIC    | BLCDT -20040908AAE   |
| 32   | WVIR-TV | CHARLOTTESVILLE VA | 52.0     | PLN    | DTVPLN -DTVP1201     |
| 39   | NEW     | RICHMOND VA        | 136.2    | ADD    | BPRM -20000717ACH    |
| 25   | WUNC-TV | CHAPEL HILL NC     | 283.0    | APP    | USERRECORD-01        |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 11

Analysis of current record

| Channel | Call    | City/State     | Application Ref. No. |
|---------|---------|----------------|----------------------|
| 25      | WUNC-TV | CHAPEL HILL NC | USERRECORD-01        |

Stations Potentially Affecting This Station

| Chan | Call    | City/State   | Dist(km) | Status | Application Ref. No. |
|------|---------|--------------|----------|--------|----------------------|
| 24   | WDRL-TV | DANVILLE VA  | 134.3    | PLN    | DTVPLN -DTVP0908     |
| 24   | WDRL-TV | DANVILLE VA  | 132.2    | APP    | BPCT -20080317AIL    |
| 25   | WUNF-TV | ASHEVILLE NC | 327.9    | LIC    | BLEDT -20030401BAI   |
| 25   | WUNF-TV | ASHEVILLE NC | 327.9    | PLN    | DTVPLN -DTVP0929     |
| 25   | WTVR-TV | RICHMOND VA  | 230.1    | LIC    | BLCDT -20021204ABA   |
| 25   | WTVR-TV | RICHMOND VA  | 230.1    | PLN    | DTVPLN -DTVP0939     |

Total scenarios = 4

Figure 3

Result key: 29

Scenario 1 Affected station 11

Before Analysis

Results for: 25A NC CHAPEL HILL USERRECORD01 APP

HAAT 461.0 m, ATV ERP 1000.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 3343052    | 35238.3      |
| not affected by terrain losses | 3306640    | 34807.7      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 70536      | 953.6        |
| lost to ATV IX only            | 70536      | 953.6        |
| lost to all IX                 | 70536      | 953.6        |

Potential Interfering Stations Included in above Scenario 1

|                  |        |             |     |
|------------------|--------|-------------|-----|
| 24A VA DANVILLE  | DTVPLN | DTVP0908    | PLN |
| 25A NC ASHEVILLE | BLEDT  | 20030401BAI | LIC |
| 25A VA RICHMOND  | BLCDT  | 20021204ABA | LIC |

Result key: 30

Scenario 2 Affected station 11

Before Analysis

Results for: 25A NC CHAPEL HILL USERRECORD01 APP

HAAT 461.0 m, ATV ERP 1000.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 3343052    | 35238.3      |
| not affected by terrain losses | 3306640    | 34807.7      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 70536      | 953.6        |
| lost to ATV IX only            | 70536      | 953.6        |
| lost to all IX                 | 70536      | 953.6        |

Potential Interfering Stations Included in above Scenario 2

|                  |        |             |     |
|------------------|--------|-------------|-----|
| 24A VA DANVILLE  | DTVPLN | DTVP0908    | PLN |
| 25A NC ASHEVILLE | BLEDT  | 20030401BAI | LIC |
| 25A VA RICHMOND  | DTVPLN | DTVP0939    | PLN |

Result key: 31

Scenario 3 Affected station 11

Before Analysis

Results for: 25A NC CHAPEL HILL USERRECORD01 APP

HAAT 461.0 m, ATV ERP 1000.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 3343052    | 35238.3      |
| not affected by terrain losses | 3306640    | 34807.7      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 17453      | 531.1        |
| lost to ATV IX only            | 17453      | 531.1        |
| lost to all IX                 | 17453      | 531.1        |

Potential Interfering Stations Included in above Scenario 3

Figure 3

```
24A VA DANVILLE      DTVPLN  DTVP0908  PLN
25A NC ASHEVILLE     DTVPLN  DTVP0929  PLN
25A VA RICHMOND       BLCDT   20021204ABA  LIC

Result key:           32
Scenario             4  Affected station      11
Before Analysis

Results for: 25A NC CHAPEL HILL      USERRECORD01      APP
HAAT  461.0 m, ATV ERP 1000.0 kW

      POPULATION  AREA (sq km)
within Noise Limited Contour  3343052  35238.3
not affected by terrain losses 3306640  34807.7
lost to NTSC IX              0         0.0
lost to additional IX by ATV  17453    531.1
lost to ATV IX only          17453    531.1
lost to all IX               17453    531.1

Potential Interfering Stations Included in above Scenario      4

24A VA DANVILLE      DTVPLN  DTVP0908  PLN
25A NC ASHEVILLE     DTVPLN  DTVP0929  PLN
25A VA RICHMOND       DTVPLN  DTVP0939  PLN

#####

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED
```

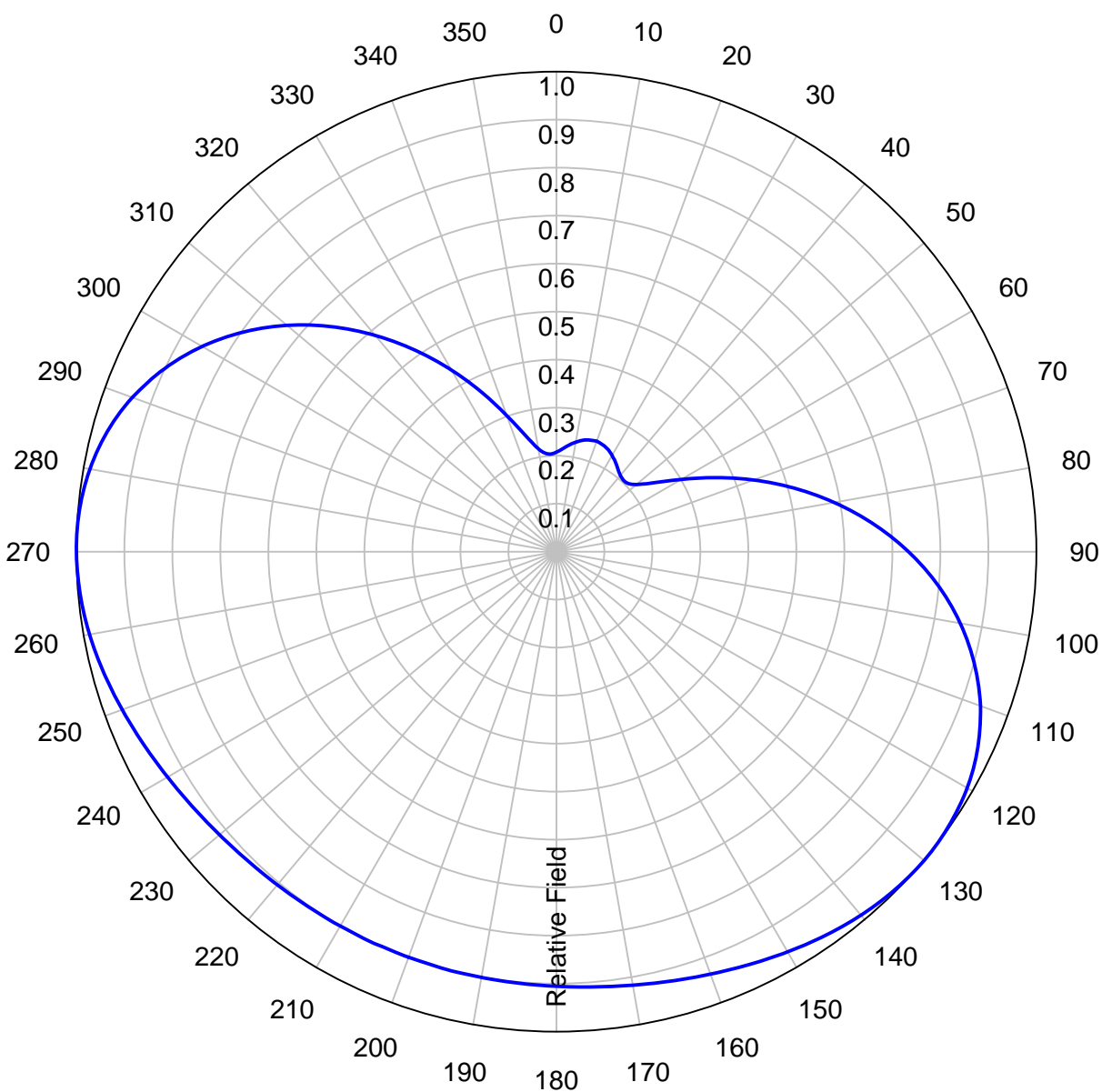


# APPENDIX A

## TRANSMITTING ANTENNA VERTICAL AND HORIZONTAL PLANE PATTERN

**AZIMUTH PATTERN****Type:**ATW-C170**Channel:**25**Directivity:**NumericdBd**Peak(s) at:**1.702.30**Location:****Polarization:**Horizontal

Note: Pattern shape and directivity may vary with channel and mouting configuration.



# TABULATED DATA FOR AZIMUTH PATTERN

Type ATW-C170

Polarization Horizontal

| ANGLE | FIELD | dB     | ANGLE | FIELD | dB    | ANGLE | FIELD | dB    | ANGLE | FIELD | dB     |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0     | 0.207 | -13.68 | 92    | 0.760 | -2.38 | 184   | 0.903 | -0.89 | 276   | 0.996 | -0.03  |
| 2     | 0.211 | -13.51 | 94    | 0.785 | -2.10 | 186   | 0.902 | -0.90 | 278   | 0.992 | -0.07  |
| 4     | 0.216 | -13.31 | 96    | 0.809 | -1.84 | 188   | 0.901 | -0.91 | 280   | 0.987 | -0.11  |
| 6     | 0.222 | -13.07 | 98    | 0.832 | -1.60 | 190   | 0.900 | -0.92 | 282   | 0.981 | -0.17  |
| 8     | 0.227 | -12.88 | 100   | 0.854 | -1.37 | 192   | 0.900 | -0.92 | 284   | 0.973 | -0.24  |
| 10    | 0.232 | -12.69 | 102   | 0.874 | -1.17 | 194   | 0.900 | -0.92 | 286   | 0.963 | -0.33  |
| 12    | 0.236 | -12.54 | 104   | 0.893 | -0.98 | 196   | 0.899 | -0.92 | 288   | 0.952 | -0.43  |
| 14    | 0.240 | -12.40 | 106   | 0.910 | -0.82 | 198   | 0.899 | -0.92 | 290   | 0.940 | -0.54  |
| 16    | 0.242 | -12.32 | 108   | 0.925 | -0.68 | 200   | 0.899 | -0.92 | 292   | 0.925 | -0.68  |
| 18    | 0.244 | -12.25 | 110   | 0.940 | -0.54 | 202   | 0.899 | -0.92 | 294   | 0.910 | -0.82  |
| 20    | 0.245 | -12.22 | 112   | 0.952 | -0.43 | 204   | 0.899 | -0.92 | 296   | 0.893 | -0.98  |
| 22    | 0.244 | -12.25 | 114   | 0.963 | -0.33 | 206   | 0.900 | -0.92 | 298   | 0.874 | -1.17  |
| 24    | 0.242 | -12.32 | 116   | 0.973 | -0.24 | 208   | 0.900 | -0.92 | 300   | 0.854 | -1.37  |
| 26    | 0.240 | -12.40 | 118   | 0.981 | -0.17 | 210   | 0.900 | -0.92 | 302   | 0.832 | -1.60  |
| 28    | 0.236 | -12.54 | 120   | 0.987 | -0.11 | 212   | 0.901 | -0.91 | 304   | 0.809 | -1.84  |
| 30    | 0.232 | -12.69 | 122   | 0.992 | -0.07 | 214   | 0.902 | -0.90 | 306   | 0.785 | -2.10  |
| 32    | 0.227 | -12.88 | 124   | 0.996 | -0.03 | 216   | 0.903 | -0.89 | 308   | 0.760 | -2.38  |
| 34    | 0.222 | -13.07 | 126   | 0.998 | -0.02 | 218   | 0.904 | -0.88 | 310   | 0.733 | -2.70  |
| 36    | 0.216 | -13.31 | 128   | 1.000 | 0.00  | 220   | 0.905 | -0.87 | 312   | 0.706 | -3.02  |
| 38    | 0.211 | -13.51 | 130   | 1.000 | 0.00  | 222   | 0.907 | -0.85 | 314   | 0.677 | -3.39  |
| 40    | 0.207 | -13.68 | 132   | 0.999 | -0.01 | 224   | 0.909 | -0.83 | 316   | 0.648 | -3.77  |
| 42    | 0.205 | -13.76 | 134   | 0.997 | -0.03 | 226   | 0.911 | -0.81 | 318   | 0.619 | -4.17  |
| 44    | 0.204 | -13.81 | 136   | 0.995 | -0.04 | 228   | 0.914 | -0.78 | 320   | 0.588 | -4.61  |
| 46    | 0.206 | -13.72 | 138   | 0.992 | -0.07 | 230   | 0.917 | -0.75 | 322   | 0.558 | -5.07  |
| 48    | 0.210 | -13.56 | 140   | 0.988 | -0.10 | 232   | 0.920 | -0.72 | 324   | 0.527 | -5.56  |
| 50    | 0.218 | -13.23 | 142   | 0.983 | -0.15 | 234   | 0.924 | -0.69 | 326   | 0.497 | -6.07  |
| 52    | 0.229 | -12.80 | 144   | 0.978 | -0.19 | 236   | 0.928 | -0.65 | 328   | 0.466 | -6.63  |
| 54    | 0.243 | -12.29 | 146   | 0.973 | -0.24 | 238   | 0.932 | -0.61 | 330   | 0.437 | -7.19  |
| 56    | 0.260 | -11.70 | 148   | 0.968 | -0.28 | 240   | 0.936 | -0.57 | 332   | 0.407 | -7.81  |
| 58    | 0.280 | -11.06 | 150   | 0.963 | -0.33 | 242   | 0.941 | -0.53 | 334   | 0.379 | -8.43  |
| 60    | 0.302 | -10.40 | 152   | 0.957 | -0.38 | 244   | 0.946 | -0.48 | 336   | 0.352 | -9.07  |
| 62    | 0.326 | -9.74  | 154   | 0.952 | -0.43 | 246   | 0.952 | -0.43 | 338   | 0.326 | -9.74  |
| 64    | 0.352 | -9.07  | 156   | 0.946 | -0.48 | 248   | 0.957 | -0.38 | 340   | 0.302 | -10.40 |
| 66    | 0.379 | -8.43  | 158   | 0.941 | -0.53 | 250   | 0.963 | -0.33 | 342   | 0.280 | -11.06 |
| 68    | 0.407 | -7.81  | 160   | 0.936 | -0.57 | 252   | 0.968 | -0.28 | 344   | 0.260 | -11.70 |
| 70    | 0.437 | -7.19  | 162   | 0.932 | -0.61 | 254   | 0.973 | -0.24 | 346   | 0.243 | -12.29 |
| 72    | 0.466 | -6.63  | 164   | 0.928 | -0.65 | 256   | 0.978 | -0.19 | 348   | 0.229 | -12.80 |
| 74    | 0.497 | -6.07  | 166   | 0.924 | -0.69 | 258   | 0.983 | -0.15 | 350   | 0.218 | -13.23 |
| 76    | 0.527 | -5.56  | 168   | 0.920 | -0.72 | 260   | 0.988 | -0.10 | 352   | 0.210 | -13.56 |
| 78    | 0.558 | -5.07  | 170   | 0.917 | -0.75 | 262   | 0.992 | -0.07 | 354   | 0.206 | -13.72 |
| 80    | 0.588 | -4.61  | 172   | 0.914 | -0.78 | 264   | 0.995 | -0.04 | 356   | 0.204 | -13.81 |
| 82    | 0.619 | -4.17  | 174   | 0.911 | -0.81 | 266   | 0.997 | -0.03 | 358   | 0.205 | -13.76 |
| 84    | 0.648 | -3.77  | 176   | 0.909 | -0.83 | 268   | 0.999 | -0.01 | 360   | 0.207 | -13.68 |
| 86    | 0.677 | -3.39  | 178   | 0.907 | -0.85 | 270   | 1.000 | 0.00  |       |       |        |
| 88    | 0.706 | -3.02  | 180   | 0.905 | -0.87 | 272   | 1.000 | 0.00  |       |       |        |
| 90    | 0.733 | -2.70  | 182   | 0.904 | -0.88 | 274   | 0.998 | -0.02 |       |       |        |

## **TABULATED DATA FOR AZIMUTH PATTERN FCC FILING FORMAT**

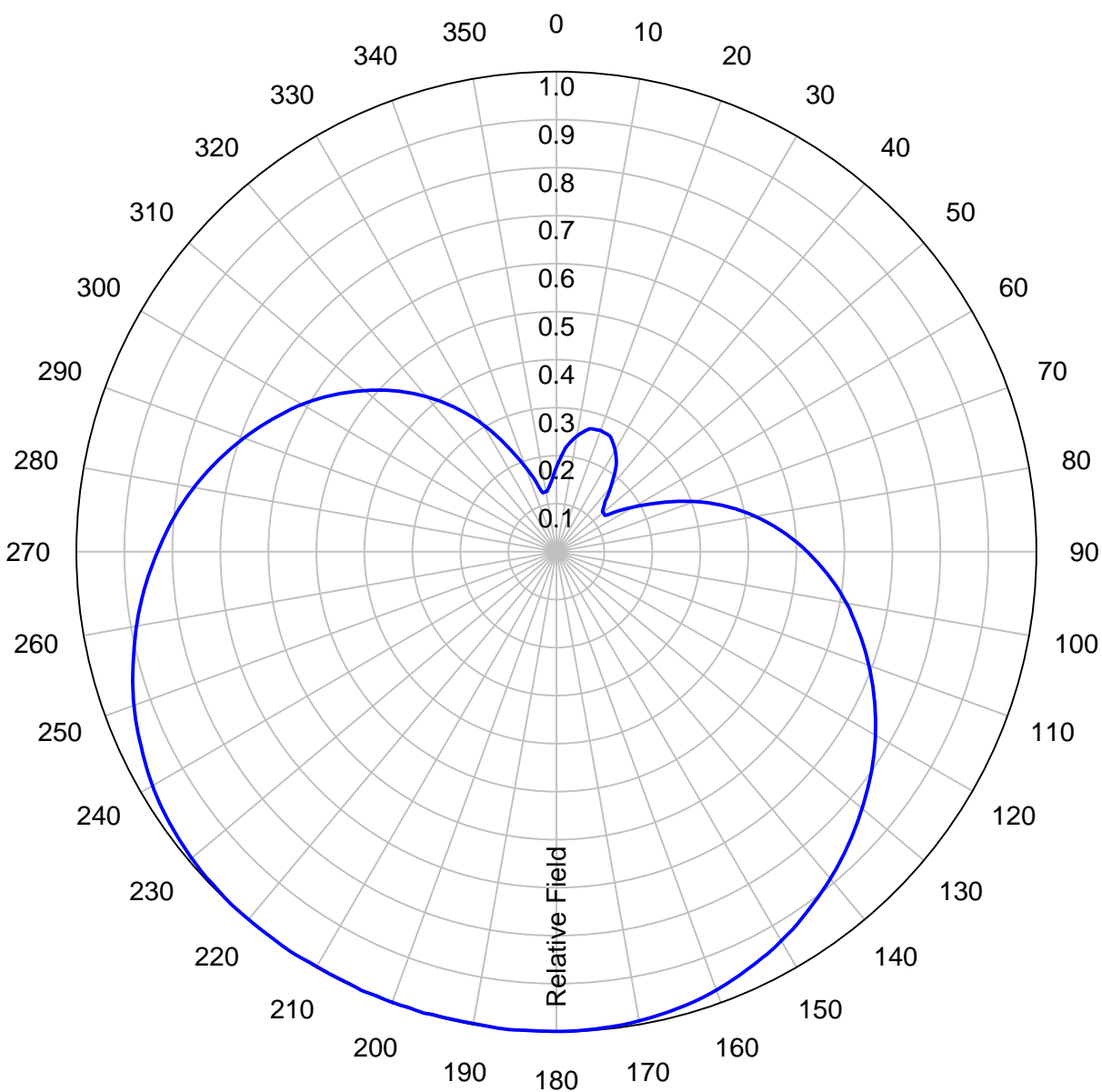
TypeATW-C170

PolarizationHorizontal

| <b>ANGLE</b> | <b>FIELD</b> | <b>ERP (kW)</b> | <b>ERP (dBk)</b> |
|--------------|--------------|-----------------|------------------|
| 0            | 0.207        | 12.855          | 11.091           |
| 10           | 0.232        | 16.147          | 12.081           |
| 20           | 0.245        | 18.008          | 12.555           |
| 30           | 0.232        | 16.147          | 12.081           |
| 40           | 0.207        | 12.855          | 11.091           |
| 50           | 0.218        | 14.257          | 11.540           |
| 60           | 0.302        | 27.361          | 14.371           |
| 70           | 0.437        | 57.291          | 17.581           |
| 80           | 0.588        | 103.723         | 20.159           |
| 90           | 0.733        | 161.187         | 22.073           |
| 100          | 0.854        | 218.795         | 23.400           |
| 110          | 0.940        | 265.080         | 24.234           |
| 120          | 0.987        | 292.251         | 24.658           |
| 130          | 1.000        | 300.000         | 24.771           |
| 140          | 0.988        | 292.843         | 24.666           |
| 150          | 0.963        | 278.211         | 24.444           |
| 160          | 0.936        | 262.829         | 24.197           |
| 170          | 0.917        | 252.267         | 24.019           |
| 180          | 0.905        | 245.708         | 23.904           |
| 190          | 0.900        | 243.000         | 23.856           |
| 200          | 0.899        | 242.460         | 23.846           |
| 210          | 0.900        | 243.000         | 23.856           |
| 220          | 0.905        | 245.708         | 23.904           |
| 230          | 0.917        | 252.267         | 24.019           |
| 240          | 0.936        | 262.829         | 24.197           |
| 250          | 0.963        | 278.211         | 24.444           |
| 260          | 0.988        | 292.843         | 24.666           |
| 270          | 1.000        | 300.000         | 24.771           |
| 280          | 0.987        | 292.251         | 24.658           |
| 290          | 0.940        | 265.080         | 24.234           |
| 300          | 0.854        | 218.795         | 23.400           |
| 310          | 0.733        | 161.187         | 22.073           |
| 320          | 0.588        | 103.723         | 20.159           |
| 330          | 0.437        | 57.291          | 17.581           |
| 340          | 0.302        | 27.361          | 14.371           |
| 350          | 0.218        | 14.257          | 11.540           |

**AZIMUTH PATTERN****Type:**ATW-V20**Channel:**25**Directivity:**NumericdBd**Peak(s) at:**2.003.01**Location:****Polarization:**Vertical

Note: Pattern shape and directivity may vary with channel and mouting configuration.



# TABULATED DATA FOR AZIMUTH PATTERN

Type:ATW-V20

Polarization: Vertical

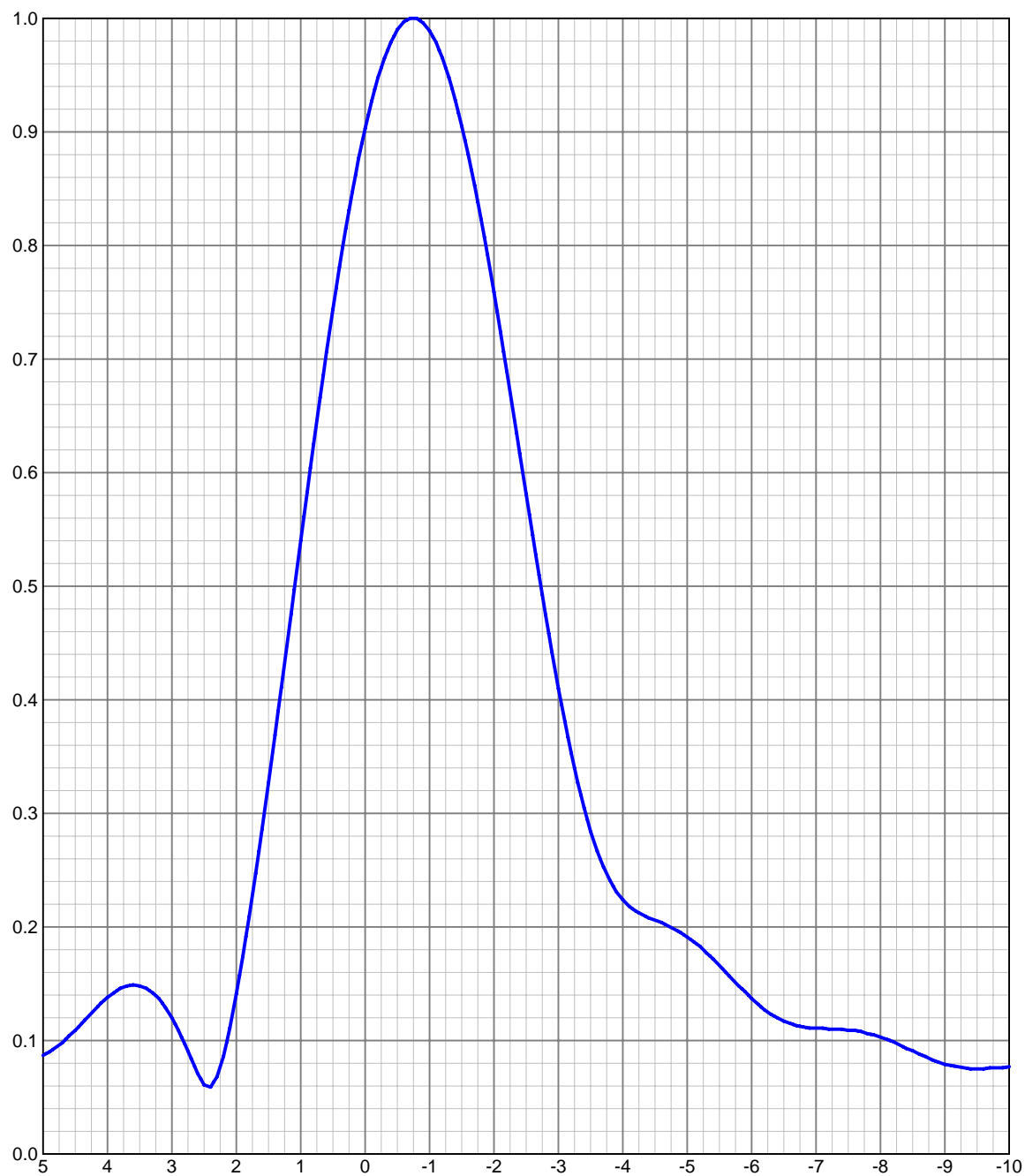
| ANGLE | FIELD | dB     | ANGLE | FIELD | dB    | ANGLE | FIELD | dB    | ANGLE | FIELD | dB     |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0     | 0.176 | -15.09 | 92    | 0.541 | -5.34 | 184   | 0.999 | -0.01 | 276   | 0.794 | -2.00  |
| 2     | 0.192 | -14.33 | 94    | 0.560 | -5.04 | 186   | 1.000 | 0.00  | 278   | 0.781 | -2.15  |
| 4     | 0.208 | -13.64 | 96    | 0.578 | -4.76 | 188   | 0.999 | -0.01 | 280   | 0.767 | -2.30  |
| 6     | 0.223 | -13.03 | 98    | 0.596 | -4.50 | 190   | 0.998 | -0.02 | 282   | 0.753 | -2.46  |
| 8     | 0.234 | -12.62 | 100   | 0.613 | -4.25 | 192   | 0.998 | -0.02 | 284   | 0.738 | -2.64  |
| 10    | 0.245 | -12.22 | 102   | 0.629 | -4.03 | 194   | 0.998 | -0.02 | 286   | 0.723 | -2.82  |
| 12    | 0.253 | -11.94 | 104   | 0.645 | -3.81 | 196   | 1.000 | 0.00  | 288   | 0.708 | -3.00  |
| 14    | 0.261 | -11.67 | 106   | 0.661 | -3.60 | 198   | 0.998 | -0.02 | 290   | 0.693 | -3.19  |
| 16    | 0.266 | -11.50 | 108   | 0.677 | -3.39 | 200   | 0.999 | -0.01 | 292   | 0.677 | -3.39  |
| 18    | 0.267 | -11.47 | 110   | 0.693 | -3.19 | 202   | 0.998 | -0.02 | 294   | 0.661 | -3.60  |
| 20    | 0.269 | -11.40 | 112   | 0.708 | -3.00 | 204   | 1.000 | 0.00  | 296   | 0.645 | -3.81  |
| 22    | 0.267 | -11.47 | 114   | 0.723 | -2.82 | 206   | 0.998 | -0.02 | 298   | 0.629 | -4.03  |
| 24    | 0.266 | -11.50 | 116   | 0.738 | -2.64 | 208   | 0.998 | -0.02 | 300   | 0.613 | -4.25  |
| 26    | 0.261 | -11.67 | 118   | 0.753 | -2.46 | 210   | 0.998 | -0.02 | 302   | 0.596 | -4.50  |
| 28    | 0.253 | -11.94 | 120   | 0.767 | -2.30 | 212   | 0.999 | -0.01 | 304   | 0.578 | -4.76  |
| 30    | 0.245 | -12.22 | 122   | 0.781 | -2.15 | 214   | 1.000 | 0.00  | 306   | 0.560 | -5.04  |
| 32    | 0.234 | -12.62 | 124   | 0.794 | -2.00 | 216   | 0.999 | -0.01 | 308   | 0.541 | -5.34  |
| 34    | 0.223 | -13.03 | 126   | 0.807 | -1.86 | 218   | 0.999 | -0.01 | 310   | 0.522 | -5.65  |
| 36    | 0.208 | -13.64 | 128   | 0.819 | -1.73 | 220   | 0.999 | -0.01 | 312   | 0.503 | -5.97  |
| 38    | 0.192 | -14.33 | 130   | 0.831 | -1.61 | 222   | 0.999 | -0.01 | 314   | 0.484 | -6.30  |
| 40    | 0.176 | -15.09 | 132   | 0.843 | -1.48 | 224   | 0.998 | -0.02 | 316   | 0.463 | -6.69  |
| 42    | 0.161 | -15.86 | 134   | 0.855 | -1.36 | 226   | 0.996 | -0.03 | 318   | 0.443 | -7.07  |
| 44    | 0.146 | -16.71 | 136   | 0.867 | -1.24 | 228   | 0.995 | -0.04 | 320   | 0.422 | -7.49  |
| 46    | 0.138 | -17.20 | 138   | 0.878 | -1.13 | 230   | 0.992 | -0.07 | 322   | 0.400 | -7.96  |
| 48    | 0.130 | -17.72 | 140   | 0.888 | -1.03 | 232   | 0.989 | -0.10 | 324   | 0.377 | -8.47  |
| 50    | 0.127 | -17.92 | 142   | 0.898 | -0.93 | 234   | 0.986 | -0.12 | 326   | 0.354 | -9.02  |
| 52    | 0.126 | -17.99 | 144   | 0.908 | -0.84 | 236   | 0.982 | -0.16 | 328   | 0.330 | -9.63  |
| 54    | 0.130 | -17.72 | 146   | 0.918 | -0.74 | 238   | 0.978 | -0.19 | 330   | 0.305 | -10.31 |
| 56    | 0.149 | -16.54 | 148   | 0.928 | -0.65 | 240   | 0.972 | -0.25 | 332   | 0.281 | -11.03 |
| 58    | 0.167 | -15.55 | 150   | 0.936 | -0.57 | 242   | 0.966 | -0.30 | 334   | 0.255 | -11.87 |
| 60    | 0.187 | -14.56 | 152   | 0.945 | -0.49 | 244   | 0.959 | -0.36 | 336   | 0.230 | -12.77 |
| 62    | 0.208 | -13.64 | 154   | 0.952 | -0.43 | 246   | 0.952 | -0.43 | 338   | 0.208 | -13.64 |
| 64    | 0.230 | -12.77 | 156   | 0.959 | -0.36 | 248   | 0.945 | -0.49 | 340   | 0.187 | -14.56 |
| 66    | 0.255 | -11.87 | 158   | 0.966 | -0.30 | 250   | 0.936 | -0.57 | 342   | 0.167 | -15.55 |
| 68    | 0.281 | -11.03 | 160   | 0.972 | -0.25 | 252   | 0.928 | -0.65 | 344   | 0.149 | -16.54 |
| 70    | 0.305 | -10.31 | 162   | 0.978 | -0.19 | 254   | 0.918 | -0.74 | 346   | 0.130 | -17.72 |
| 72    | 0.330 | -9.63  | 164   | 0.982 | -0.16 | 256   | 0.908 | -0.84 | 348   | 0.126 | -17.99 |
| 74    | 0.354 | -9.02  | 166   | 0.986 | -0.12 | 258   | 0.898 | -0.93 | 350   | 0.127 | -17.92 |
| 76    | 0.377 | -8.47  | 168   | 0.989 | -0.10 | 260   | 0.888 | -1.03 | 352   | 0.130 | -17.72 |
| 78    | 0.400 | -7.96  | 170   | 0.992 | -0.07 | 262   | 0.878 | -1.13 | 354   | 0.138 | -17.20 |
| 80    | 0.422 | -7.49  | 172   | 0.995 | -0.04 | 264   | 0.867 | -1.24 | 356   | 0.146 | -16.71 |
| 82    | 0.443 | -7.07  | 174   | 0.996 | -0.03 | 266   | 0.855 | -1.36 | 358   | 0.161 | -15.86 |
| 84    | 0.463 | -6.69  | 176   | 0.998 | -0.02 | 268   | 0.843 | -1.48 | 360   | 0.176 | -15.09 |
| 86    | 0.484 | -6.30  | 178   | 0.999 | -0.01 | 270   | 0.831 | -1.61 |       |       |        |
| 88    | 0.503 | -5.97  | 180   | 0.999 | -0.01 | 272   | 0.819 | -1.73 |       |       |        |
| 90    | 0.522 | -5.65  | 182   | 0.999 | -0.01 | 274   | 0.807 | -1.86 |       |       |        |

## **TABULATED DATA FOR AZIMUTH PATTERN FCC FILING FORMAT**

Type:ATW-V20

Polarization: Vertical

| <b>ANGLE</b> | <b>FIELD</b> | <b>ERP (kW)</b> | <b>ERP (dBk)</b> |
|--------------|--------------|-----------------|------------------|
| 0            | 0.176        | 1.859           | 2.692            |
| 10           | 0.245        | 3.601           | 5.565            |
| 20           | 0.269        | 4.342           | 6.377            |
| 30           | 0.245        | 3.601           | 5.565            |
| 40           | 0.176        | 1.859           | 2.692            |
| 50           | 0.127        | 0.968           | -0.142           |
| 60           | 0.187        | 2.098           | 3.218            |
| 70           | 0.305        | 5.582           | 7.468            |
| 80           | 0.422        | 10.685          | 10.288           |
| 90           | 0.522        | 16.349          | 12.135           |
| 100          | 0.613        | 22.546          | 13.531           |
| 110          | 0.693        | 28.815          | 14.596           |
| 120          | 0.767        | 35.297          | 15.477           |
| 130          | 0.831        | 41.434          | 16.174           |
| 140          | 0.888        | 47.313          | 16.750           |
| 150          | 0.936        | 52.566          | 17.207           |
| 160          | 0.972        | 56.687          | 17.535           |
| 170          | 0.992        | 59.044          | 17.712           |
| 180          | 0.999        | 59.880          | 17.773           |
| 190          | 0.998        | 59.760          | 17.764           |
| 200          | 0.999        | 59.880          | 17.773           |
| 210          | 0.998        | 59.760          | 17.764           |
| 220          | 0.999        | 59.880          | 17.773           |
| 230          | 0.992        | 59.044          | 17.712           |
| 240          | 0.972        | 56.687          | 17.535           |
| 250          | 0.936        | 52.566          | 17.207           |
| 260          | 0.888        | 47.313          | 16.750           |
| 270          | 0.831        | 41.434          | 16.174           |
| 280          | 0.767        | 35.297          | 15.477           |
| 290          | 0.693        | 28.815          | 14.596           |
| 300          | 0.613        | 22.546          | 13.531           |
| 310          | 0.522        | 16.349          | 12.135           |
| 320          | 0.422        | 10.685          | 10.288           |
| 330          | 0.305        | 5.582           | 7.468            |
| 340          | 0.187        | 2.098           | 3.218            |
| 350          | 0.127        | 0.968           | -0.142           |

**ELEVATION PATTERN****Type:****ATW22HS3H****Channel:****25****Directivity:****Numeric****dBd****Location:****Main Lobe:****22.00****13.42****Beam Tilt:****-0.75****Horizontal:****17.94****12.54****Polarization:****Horizontal****Relative Field**

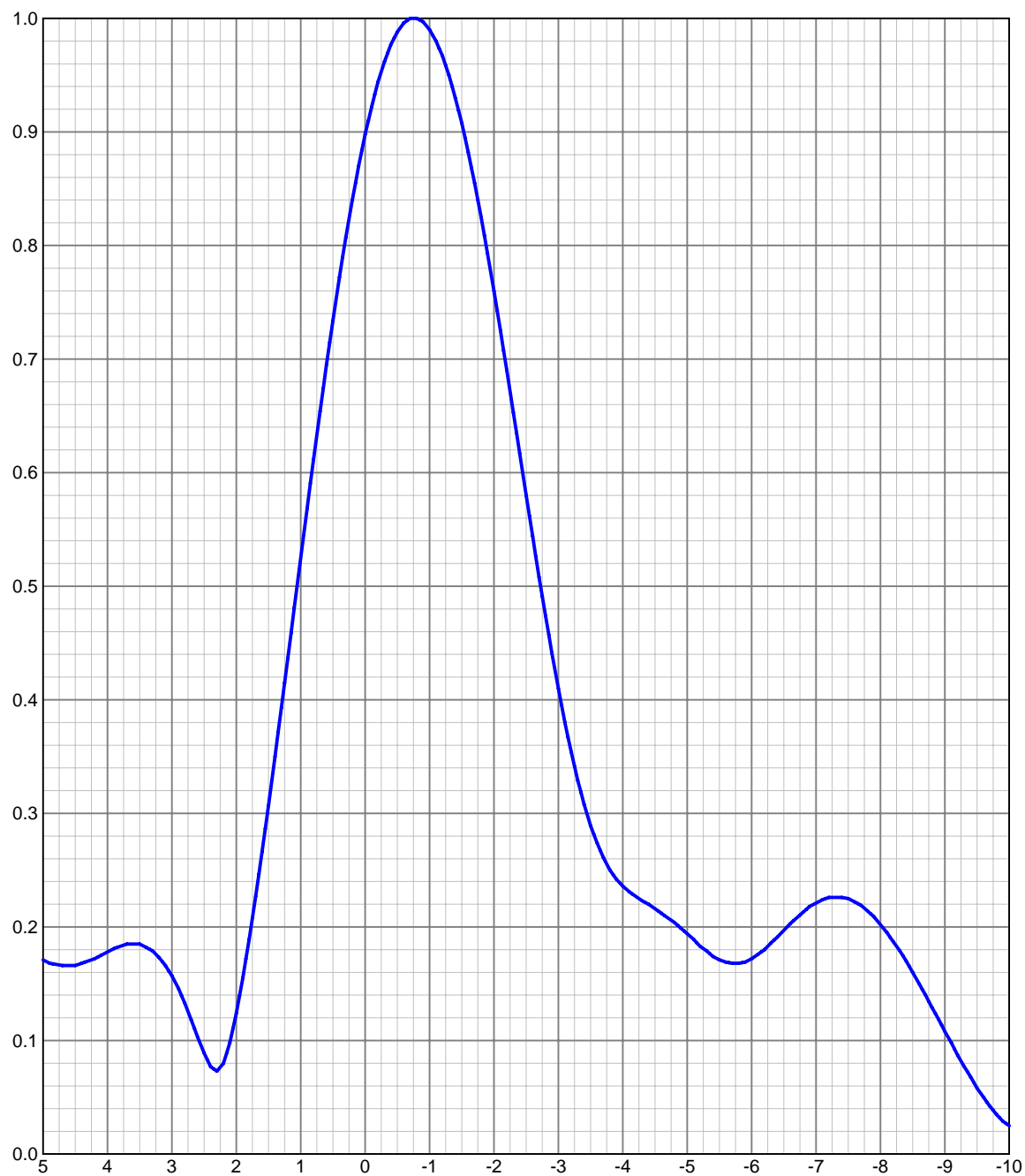


## TABULATED DATA FOR ELEVATION PATTERN

Type: ATW22HS3H

PolarizationHorizontal

| ANGLEFIELD | dB    | ANGLEFIELD | dB     | ANGLEFIELD | dB     | ANGLEFIELD | dB    | ANGLEFIELD | dB     |
|------------|-------|------------|--------|------------|--------|------------|-------|------------|--------|
| 5.00       | 0.087 | -21.21     | -6.75  | 0.113      | -18.98 | -27.00     | 0.025 | -32.04     | -50.50 |
| 4.75       | 0.096 | -20.35     | -7.00  | 0.111      | -19.09 | -27.50     | 0.025 | -32.04     | -51.00 |
| 4.50       | 0.109 | -19.25     | -7.25  | 0.110      | -19.17 | -28.00     | 0.029 | -30.75     | -51.50 |
| 4.25       | 0.124 | -18.13     | -7.50  | 0.109      | -19.25 | -28.50     | 0.032 | -29.90     | -52.00 |
| 4.00       | 0.138 | -17.20     | -7.75  | 0.107      | -19.41 | -29.00     | 0.031 | -30.17     | -52.50 |
| 3.75       | 0.147 | -16.65     | -8.00  | 0.103      | -19.74 | -29.50     | 0.026 | -31.70     | -53.00 |
| 3.50       | 0.148 | -16.59     | -8.25  | 0.098      | -20.22 | -30.00     | 0.023 | -32.77     | -53.50 |
| 3.25       | 0.140 | -17.11     | -8.50  | 0.091      | -20.82 | -30.50     | 0.026 | -31.70     | -54.00 |
| 3.00       | 0.120 | -18.42     | -8.75  | 0.084      | -21.46 | -31.00     | 0.030 | -30.46     | -54.50 |
| 2.75       | 0.090 | -20.87     | -9.00  | 0.079      | -22.05 | -31.50     | 0.031 | -30.17     | -55.00 |
| 2.50       | 0.061 | -24.29     | -9.25  | 0.076      | -22.33 | -32.00     | 0.028 | -31.06     | -55.50 |
| 2.25       | 0.077 | -22.27     | -9.50  | 0.075      | -22.50 | -32.50     | 0.024 | -32.40     | -56.00 |
| 2.00       | 0.141 | -17.02     | -9.75  | 0.076      | -22.38 | -33.00     | 0.024 | -32.40     | -56.50 |
| 1.75       | 0.228 | -12.84     | -10.00 | 0.077      | -22.27 | -33.50     | 0.027 | -31.37     | -57.00 |
| 1.50       | 0.327 | -9.71      | -10.50 | 0.075      | -22.50 | -34.00     | 0.030 | -30.46     | -57.50 |
| 1.25       | 0.432 | -7.28      | -11.00 | 0.068      | -23.35 | -34.50     | 0.030 | -30.46     | -58.00 |
| 1.00       | 0.540 | -5.35      | -11.50 | 0.059      | -24.58 | -35.00     | 0.027 | -31.37     | -58.50 |
| 0.75       | 0.645 | -3.80      | -12.00 | 0.056      | -25.04 | -35.50     | 0.024 | -32.40     | -59.00 |
| 0.50       | 0.744 | -2.57      | -12.50 | 0.059      | -24.58 | -36.00     | 0.024 | -32.40     | -59.50 |
| 0.25       | 0.831 | -1.61      | -13.00 | 0.060      | -24.44 | -36.50     | 0.028 | -31.06     | -60.00 |
| 0.00       | 0.903 | -0.89      | -13.50 | 0.054      | -25.35 | -37.00     | 0.030 | -30.46     | -60.50 |
| -0.25      | 0.956 | -0.39      | -14.00 | 0.047      | -26.56 | -37.50     | 0.030 | -30.46     | -61.00 |
| -0.50      | 0.990 | -0.09      | -14.50 | 0.044      | -27.13 | -38.00     | 0.027 | -31.37     | -61.50 |
| -0.75      | 1.000 | 0.00       | -15.00 | 0.048      | -26.38 | -38.50     | 0.024 | -32.40     | -62.00 |
| -1.00      | 0.989 | -0.10      | -15.50 | 0.050      | -26.02 | -39.00     | 0.023 | -32.77     | -62.50 |
| -1.25      | 0.956 | -0.39      | -16.00 | 0.046      | -26.74 | -39.50     | 0.026 | -31.70     | -63.00 |
| -1.50      | 0.905 | -0.87      | -16.50 | 0.039      | -28.18 | -40.00     | 0.029 | -30.75     | -63.50 |
| -1.75      | 0.838 | -1.54      | -17.00 | 0.037      | -28.64 | -40.50     | 0.030 | -30.46     | -64.00 |
| -2.00      | 0.759 | -2.40      | -17.50 | 0.041      | -27.74 | -41.00     | 0.027 | -31.37     | -64.50 |
| -2.25      | 0.671 | -3.47      | -18.00 | 0.044      | -27.13 | -41.50     | 0.024 | -32.40     | -65.00 |
| -2.50      | 0.581 | -4.72      | -18.50 | 0.041      | -27.74 | -42.00     | 0.023 | -32.77     | -65.50 |
| -2.75      | 0.492 | -6.15      | -19.00 | 0.035      | -29.12 | -42.50     | 0.026 | -31.70     | -66.00 |
| -3.00      | 0.410 | -7.74      | -19.50 | 0.032      | -29.90 | -43.00     | 0.029 | -30.75     | -66.50 |
| -3.25      | 0.340 | -9.37      | -20.00 | 0.036      | -28.87 | -43.50     | 0.030 | -30.46     | -67.00 |
| -3.50      | 0.284 | -10.93     | -20.50 | 0.039      | -28.18 | -44.00     | 0.029 | -30.75     | -67.50 |
| -3.75      | 0.247 | -12.15     | -21.00 | 0.037      | -28.64 | -44.50     | 0.027 | -31.37     | -68.00 |
| -4.00      | 0.224 | -13.00     | -21.50 | 0.031      | -30.17 | -45.00     | 0.025 | -32.04     | -68.50 |
| -4.25      | 0.212 | -13.45     | -22.00 | 0.028      | -31.06 | -45.50     | 0.024 | -32.40     | -69.00 |
| -4.50      | 0.206 | -13.72     | -22.50 | 0.032      | -29.90 | -46.00     | 0.026 | -31.70     | -69.50 |
| -4.75      | 0.200 | -14.00     | -23.00 | 0.036      | -28.87 | -46.50     | 0.029 | -30.75     | -70.00 |
| -5.00      | 0.191 | -14.38     | -23.50 | 0.035      | -29.12 | -47.00     | 0.030 | -30.46     | -70.50 |
| -5.25      | 0.180 | -14.89     | -24.00 | 0.030      | -30.46 | -47.50     | 0.029 | -30.75     | -71.00 |
| -5.50      | 0.166 | -15.60     | -24.50 | 0.026      | -31.70 | -48.00     | 0.027 | -31.37     | -71.50 |
| -5.75      | 0.151 | -16.42     | -25.00 | 0.028      | -31.06 | -48.50     | 0.025 | -32.04     | -72.00 |
| -6.00      | 0.137 | -17.27     | -25.50 | 0.033      | -29.63 | -49.00     | 0.025 | -32.04     | -72.50 |
| -6.25      | 0.125 | -18.06     | -26.00 | 0.034      | -29.37 | -49.50     | 0.026 | -31.70     | -73.00 |
| -6.50      | 0.117 | -18.64     | -26.50 | 0.030      | -30.46 | -50.00     | 0.028 | -31.06     | -73.50 |

**ELEVATION PATTERN****Type:****ATW19HS3V****Channel:****25****Directivity:****Numeric****dBd****Location:****Main Lobe:****19.00****12.79****Beam Tilt:****-0.75****Horizontal:****15.32****11.85****Polarization:****Vertical****Relative Field**

## TABULATED DATA FOR ELEVATION PATTERN

Type: ATW19HS3V

Polarization: Vertical

| ANGLEFIELD | dB    | ANGLEFIELD | dB     | ANGLEFIELD | dB     | ANGLEFIELD | dB    | ANGLEFIELD | dB     |
|------------|-------|------------|--------|------------|--------|------------|-------|------------|--------|
| 5.00       | 0.171 | -15.34     | -6.75  | 0.210      | -13.53 | -27.00     | 0.009 | -40.92     | -50.50 |
| 4.75       | 0.167 | -15.57     | -7.00  | 0.221      | -13.11 | -27.50     | 0.011 | -39.17     | -51.00 |
| 4.50       | 0.166 | -15.60     | -7.25  | 0.226      | -12.92 | -28.00     | 0.009 | -40.92     | -51.50 |
| 4.25       | 0.171 | -15.34     | -7.50  | 0.225      | -12.96 | -28.50     | 0.012 | -38.42     | -52.00 |
| 4.00       | 0.178 | -14.99     | -7.75  | 0.216      | -13.29 | -29.00     | 0.029 | -30.75     | -52.50 |
| 3.75       | 0.184 | -14.70     | -8.00  | 0.202      | -13.89 | -29.50     | 0.050 | -26.02     | -53.00 |
| 3.50       | 0.185 | -14.66     | -8.25  | 0.183      | -14.75 | -30.00     | 0.073 | -22.73     | -53.50 |
| 3.25       | 0.176 | -15.09     | -8.50  | 0.160      | -15.92 | -30.50     | 0.092 | -20.72     | -54.00 |
| 3.00       | 0.157 | -16.08     | -8.75  | 0.135      | -17.43 | -31.00     | 0.107 | -19.41     | -54.50 |
| 2.75       | 0.126 | -18.03     | -9.00  | 0.108      | -19.33 | -31.50     | 0.114 | -18.86     | -55.00 |
| 2.50       | 0.089 | -21.01     | -9.25  | 0.082      | -21.72 | -32.00     | 0.112 | -19.02     | -55.50 |
| 2.25       | 0.076 | -22.33     | -9.50  | 0.058      | -24.73 | -32.50     | 0.104 | -19.66     | -56.00 |
| 2.00       | 0.124 | -18.13     | -9.75  | 0.039      | -28.29 | -33.00     | 0.089 | -21.01     | -56.50 |
| 1.75       | 0.208 | -13.64     | -10.00 | 0.025      | -32.04 | -33.50     | 0.070 | -23.10     | -57.00 |
| 1.50       | 0.307 | -10.26     | -10.50 | 0.030      | -30.46 | -34.00     | 0.051 | -25.85     | -57.50 |
| 1.25       | 0.415 | -7.64      | -11.00 | 0.042      | -27.54 | -34.50     | 0.032 | -29.90     | -58.00 |
| 1.00       | 0.525 | -5.60      | -11.50 | 0.046      | -26.74 | -35.00     | 0.019 | -34.42     | -58.50 |
| 0.75       | 0.633 | -3.97      | -12.00 | 0.040      | -27.96 | -35.50     | 0.015 | -36.48     | -59.00 |
| 0.50       | 0.734 | -2.69      | -12.50 | 0.036      | -28.87 | -36.00     | 0.018 | -34.89     | -59.50 |
| 0.25       | 0.824 | -1.69      | -13.00 | 0.050      | -26.02 | -36.50     | 0.019 | -34.42     | -60.00 |
| 0.00       | 0.898 | -0.93      | -13.50 | 0.080      | -21.94 | -37.00     | 0.017 | -35.39     | -60.50 |
| -0.25      | 0.953 | -0.42      | -14.00 | 0.113      | -18.94 | -37.50     | 0.016 | -35.92     | -61.00 |
| -0.50      | 0.988 | -0.10      | -14.50 | 0.139      | -17.14 | -38.00     | 0.023 | -32.77     | -61.50 |
| -0.75      | 1.000 | 0.00       | -15.00 | 0.152      | -16.36 | -38.50     | 0.038 | -28.40     | -62.00 |
| -1.00      | 0.990 | -0.09      | -15.50 | 0.150      | -16.48 | -39.00     | 0.055 | -25.19     | -62.50 |
| -1.25      | 0.958 | -0.37      | -16.00 | 0.133      | -17.52 | -39.50     | 0.072 | -22.85     | -63.00 |
| -1.50      | 0.908 | -0.84      | -16.50 | 0.106      | -19.49 | -40.00     | 0.086 | -21.31     | -63.50 |
| -1.75      | 0.840 | -1.51      | -17.00 | 0.073      | -22.73 | -40.50     | 0.095 | -20.45     | -64.00 |
| -2.00      | 0.760 | -2.38      | -17.50 | 0.041      | -27.74 | -41.00     | 0.099 | -20.09     | -64.50 |
| -2.25      | 0.671 | -3.46      | -18.00 | 0.014      | -37.08 | -41.50     | 0.097 | -20.26     | -65.00 |
| -2.50      | 0.580 | -4.73      | -18.50 | 0.006      | -44.44 | -42.00     | 0.090 | -20.92     | -65.50 |
| -2.75      | 0.491 | -6.18      | -19.00 | 0.015      | -36.48 | -42.50     | 0.080 | -21.94     | -66.00 |
| -3.00      | 0.410 | -7.74      | -19.50 | 0.014      | -37.08 | -43.00     | 0.067 | -23.48     | -66.50 |
| -3.25      | 0.342 | -9.33      | -20.00 | 0.005      | -46.02 | -43.50     | 0.053 | -25.51     | -67.00 |
| -3.50      | 0.289 | -10.78     | -20.50 | 0.020      | -33.98 | -44.00     | 0.040 | -27.96     | -67.50 |
| -3.75      | 0.256 | -11.85     | -21.00 | 0.046      | -26.74 | -44.50     | 0.030 | -30.46     | -68.00 |
| -4.00      | 0.236 | -12.54     | -21.50 | 0.074      | -22.62 | -45.00     | 0.025 | -32.04     | -68.50 |
| -4.25      | 0.225 | -12.96     | -22.00 | 0.100      | -20.00 | -45.50     | 0.026 | -31.70     | -69.00 |
| -4.50      | 0.216 | -13.31     | -22.50 | 0.120      | -18.42 | -46.00     | 0.028 | -31.06     | -69.50 |
| -4.75      | 0.206 | -13.72     | -23.00 | 0.129      | -17.79 | -46.50     | 0.029 | -30.75     | -70.00 |
| -5.00      | 0.194 | -14.24     | -23.50 | 0.128      | -17.86 | -47.00     | 0.027 | -31.37     | -70.50 |
| -5.25      | 0.181 | -14.85     | -24.00 | 0.116      | -18.71 | -47.50     | 0.022 | -33.15     | -71.00 |
| -5.50      | 0.171 | -15.34     | -24.50 | 0.096      | -20.35 | -48.00     | 0.017 | -35.39     | -71.50 |
| -5.75      | 0.168 | -15.49     | -25.00 | 0.072      | -22.85 | -48.50     | 0.017 | -35.39     | -72.00 |
| -6.00      | 0.172 | -15.29     | -25.50 | 0.046      | -26.74 | -49.00     | 0.026 | -31.70     | -72.50 |
| -6.25      | 0.183 | -14.75     | -26.00 | 0.024      | -32.40 | -49.50     | 0.038 | -28.40     | -73.00 |
| -6.50      | 0.197 | -14.11     | -26.50 | 0.008      | -41.94 | -50.00     | 0.051 | -25.85     | -73.50 |

# APPENDIX B

INTERFERENCE AGREEMENT  
WITH WUNF-TV