

**ENGINEERING EXHIBIT
IN SUPPORT OF AN APPLICATION FOR MODIFICATION OF
POST-TRANSITION DTV CONSTRUCTION PERMIT
WTVD DURHAM, NORTH CAROLINA
CHANNEL 11 – 20.7 KW DTV AVERAGE – 615 M HAAT**

Licensee: WTVD Television, LLC

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**ENGINEERING STATEMENT
IN SUPPORT OF AN APPLICATION FOR MODIFICATION OF
POST-TRANSITION DTV CONSTRUCTION PERMIT
WTVD DURHAM, NORTH CAROLINA
CHANNEL 11 – 20.7 KW DTV AVERAGE – 615 M HAAT**

Licensee: WTVD Television, LLC

I am a consulting engineer, an employee of the Carl. T. Jones Corporation, with offices in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Registered Professional Engineer in the Commonwealth of Pennsylvania, Registration Number PE-027589E.

Introduction

WTVD Television, LLC is the licensee of television station WTVD, Channel 11, Durham, North Carolina. Through this application WTVD seeks to modify the outstanding construction permit for DTV post-transition facilities and increase ERP from the permitted 17.9 KW to 20.7 KW. The proposed ERP meets all the requirements of the Commission's Rules, including Section 73.616 regarding interference. No change to any parameter is proposed except to increase the ERP to 20.7 KW. All other parameters except ERP remain the same as those that are shown in the outstanding post-transition construction permit, BPCDT-20080317AIJ.

In the channel election process, WTVD was granted channel 11 for its post-transition operation. WTVD presently operates its DTV facility on channel 52. The WTVD NTSC facilities are described in the present license, which bears FCC File Number BLCT-20010709ACP and the authorization for the licensed DTV facility which operates on the DTV initial allotment channel 52 is described in FCC File Number BLCDDT-19991117ABU.

The replication pattern that WTVD was assigned in the channel election process bears FCC Antenna ID 74597. It is almost a non-directional pattern with a relative field maximum of 1.0 and a relative field minimum of 0.990.

The presently licensed channel 11 analog antenna is a Dielectric traveling wave model TW-9B11-R with 0.75 degrees electrical beam tilt. This antenna produces a non-directional azimuth pattern. The Appendix B facilities specify an HAAT of 607 meters, which was the HAAT of the former WTVD main channel 11 antenna and is the HAAT shown for the WTVD channel 52 DTV antenna in the Commission's Table I. The presently licensed NTSC channel 11 antenna is located higher than the channel 52 DTV antenna and has a licensed HAAT of 615 meters.

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Through this application, WTVD seeks to modify the outstanding construction permit to increase ERP and retain the use the presently licensed channel 11 antenna for its post-transition DTV operation. The proposed ERP of 20.7 kilowatts at the HAAT of the presently licensed NTSC antenna meets the requirements of the Commission's Rules and does not cause the creation of new interference in excess of 0.5 percent for post transition operation as required by Section 73.616.

Allocation Considerations and Licensed Facility

WTVD operates NTSC facilities on channel 11. The WTVD NTSC license authorizes a full facility in Television Zone II of 312 KW at 615 meters HAAT. The WTVD main license bears FCC File Number BLCT-20010709ACP. WTVD has been serving Durham, North Carolina and nearby areas through analog television facilities on channel 11 since September 1954.

WTVD-DT operates DTV facilities on its initial allotment channel 52, with an ERP of 1000 KW and a non-directional antenna at an HAAT of 599 meters. FCC File number BLCDDT-19991117ABU contains the description of the WTVD-DT facility. WTVD-DT was an early DTV broadcaster, one of several ABC Owned Television stations that volunteered to begin DTV transmission in November of 1999. The WTVD-DT UHF channel 52 antenna is located on the same tower as the NTSC facility. This supporting structure bears Antenna Structure Registration Number 1010348. No changes are proposed to this supporting structure.

Distances to the predicted service contours shown in the figures that are attached as exhibits to this statement were calculated using methods described in the Rules. The predicted noise limited coverage contour, and the required DTV city of license principal community predicted coverage contour were calculated and plotted in this manner. The figure that is labeled Exhibit 1 depicts the plotted coverage contours, and clearly shows that the city of license, Durham, North Carolina, is contained within the predicted 43 dBu F(50:90) contour.

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The WTVD Post-Transition Appendix B Facility

WTVD was assigned channel 11, its NTSC channel, for its post-transition channel through the channel election process. The post-transition operating parameters found in Appendix B specify an HAAT of 607 meters, and a directional antenna maximum ERP of 19.2 KW on channel 11. The post-transition channel 11 Appendix B antenna has a pattern with extremely small directional characteristics. The Appendix B antenna pattern bears FCC Antenna ID Number 74597, and has a maximum relative field of 1.00 and a minimum relative field of 0.990.

WTVD Service, Section 73.625 Coverage, and Interference Calculations

In Appendix B, the channel 11 WTVD post-transition facility shows service to 2,807,000 persons. This number is in close agreement with an OET-69 Longley-Rice calculation with all stations utilizing post-transition Appendix B facilities operating with parameters contained in the FCC database of February 26, 2008. The result of the calculations performed in this manner produces a result for WTVD service of 2,807,147 persons. This baseline agreement gives confidence that the baseline calculation methodology and the input data used to obtain these results are in agreement with FCC calculation methodology and input data. When evaluated by the same methodology, the proposed facility with 20.7 KW ERP and the presently licensed NTSC antenna, shows coverage of 2,839,454 persons, after losses to terrain and interference.

The proposed facility will cover the city of license with a predicted 43 dBu F(50:90) contour as required by Section 73.625 of the Rules. Exhibit 1 is a map which shows the location of the 43 dBu contour and the limits of Durham, North Carolina and demonstrates that the required coverage of the city of license is provided by the proposed facility. The noise-limited 36 dBu F(50:90) coverage contour is shown in the figure that is labeled Exhibit 1 as well.

Interference Calculation Methodology

The results of interference calculations that are contained in this engineering statement were obtained by Longley-Rice methods that are described in OET Bulletin 69, July 1997, as implemented in the Commission's software TV_Process with 2 KM cell size. The post-transition data that were used for these calculations were obtained from the post-transition database that was bundled with Check_AppB Fortran source code and released by the FCC on Tuesday, February 26, 2008. Data from recent post-transition DTV applications and Class A stations has been added from the CDBS database of July 31, 2008 were used to obtain the results that are contained in this report. The population census data were obtained from the Year 2000 Census. This methodology and the associated Longley-Rice parameters and cell size are described in the Report and Order in the Third Periodic Review at Paragraph 155.

Interference Calculations

The TV_Process calculations of new interference to other stations caused by the use of 20.7 KW ERP with the presently licensed WTVD non-directional NTSC antenna in place of the Appendix B facilities for WTVD identified seven affected stations and show the following results:

10 WNCT-TV, Greenville, NC	0.2466% Additional Interference
11 WTVI, Charlotte, NC	0.0139% Additional Interference*
11 WTVI, Charlotte, NC	0.0074% Additional Interference
11 WVPT, Staunton, VA	0.1381% Additional Interference
11 WVPT, Staunton, VA	0.1383% Additional Interference*
11 WJHL-TV, Johnson City, TN	0.0394% Additional Interference*
11 WJHL-TV, Johnson City, TN	0.0% Additional Interference
12 WCTI, New Bern, NC	0.1432% Additional Interference
12 WWBT, Richmond, VA	Station is beyond site to nearest cell evaluation distance
11 WGSF-TV, Murrells Inlet, SC	Proposal Causes No Interference

Stations with multiple listings have more than one scenario. Scenarios are shown in order with the worst case indicated by an asterisk. Where no numerical results were reported in the interference study output, the explanatory text from the interference study output is shown.

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Antenna Structure

The presently licensed channel 11 NTSC antenna is supported by a tower which bears antenna Structure Registration Number 1010348. No change to this structure is needed to construct the proposed WTVD post-transition channel 11 DTV facility. All changes necessary to obtain operation with the parameters requested in the instant application will occur within the confines of the WTVD transmitter building.

Protection to Class A Stations

TV_Process finds one Class A station presently within the study distance and a quick review of the FCC CDBS Database indicates no difference with that finding. The Interference Study finds no interference is created to the Class A station as shown above.

Requirements of Section 73.685

After the transition to DTV operation, WTVD-DT will be operating on channel 11, and will be the only broadcast system operating from the site. As such, there is no other facility that operates within 20 percent of the channel limits and within the study limits contained in Section 73.685. In addition, no harmonic, spurious or intermodulation products are expected from interaction with signals from any nearby facility that is located beyond the required study distance in Section 73.685.

Protection to Post Transition DTV Allotments and Authorized Facilities

The facilities proposed herein were designed to produce coverage that exceeds the coverage that is predicted from the facilities described in Appendix B. The proposed post-transition DTV facility meets the requirements of all applicable FCC rules regarding interference and maximum ERP vs HAAT.

By definition, no additional interference greater than 0.5 percent can be caused to any post-transition Appendix B facility or CP application. The proposed WTVD post-transition operation meets the Commission's requirements to protect other post-transition facilities.

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Protection of AM Stations and Protected Receiving Locations

The Commission's database contains no station within 3.2 kilometers of the WTVD site. The two stations in close proximity to the WTVD transmitter are located beyond 3.2 kilometers and each of the two nearest stations operates with a non-directional antenna. This situation satisfies the requirements of Section 73.1692 of the Rules with regard to protection of AM stations.

The nearest FCC Monitoring Station is Laurel, Maryland and it is located more than 400 kilometers distant from the WTVD transmitter. The greatest study distance for transmission systems that operate in the 198 to 204 MHz range is 80 kilometers, per Section 73.1030(c)(3), and the distance to the monitoring station alone satisfies the requirements of Section 73.1030 to protect FCC Monitoring Stations.

The protected receiving location, Green Bank Observatory, West Virginia is also a great distance from the WTVD transmitter location, and the distance alone satisfies the requirements of Section 73.1030 to protect this receiving environment.

Compliance with Radiofrequency Energy Exposure Limits

The proposed WTVD-DT post-transition operation will comply with the FCC rules and guidelines pertaining to human exposure to electromagnetic energy. Although exposure limits are not approached until workers are very near the WTVD NTSC and WTVD-DT antennas, WTVD has established policies and procedures and has defined the entire tower structure as a controlled area where access is restricted to all persons for physical safety reasons as well as exposure to radiofrequency energy.

For administrative and safety purposes, the entire WTVD tower is treated as a Controlled Area. Only those who have been properly instructed with regard to physical safety procedures when working aloft, such as members of a recognized tower services organization, and only those who have been properly instructed with regard to RF Exposure safety procedures are allowed access to the WTVD tower.

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In July, 2004, an RF Safety Report was prepared by RF Safety Solutions, LLC by Robert Strickland. There have been no changes to the broadcast facilities operating at the site since the time of the measurements that are described in the Report. Results of ground level measurements are contained in this Report and indicate that at ground level to two meters above the ground, the level of radiofrequency exposure does not exceed approximately 1 percent of the maximum permissible exposure level as defined in Section 1.1310 of the Rules. This level holds true for all modes of operation. Very low levels of energy, in the order of 2 percent of the Uncontrolled Limit were observed in the WTVD transmitter building.

After the transition, only WTVD-DT will be operating from this site. Given the high location of the antennas, and the fact that less energy will be emanating from the site, the proposed post-transition operation is expected to fully comply with the Commission's Rules regarding human exposure to radiofrequency energy.

The WTVD site anywhere at ground level meets the requirements of Section 1.1307 of the Commission's Rules and the exposure limits found in Section 1.1310 of the Rules.

Conclusion

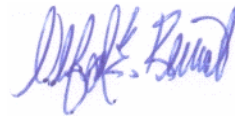
The proposed WTVD post-transition facility meets the requirements of the Commission with regard to human exposure to radiofrequency energy.

The proposed WTVD post-transition facility meets all applicable FCC Rules with regard to interference and meets all Commission requirements for post-transition operation.

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Certification

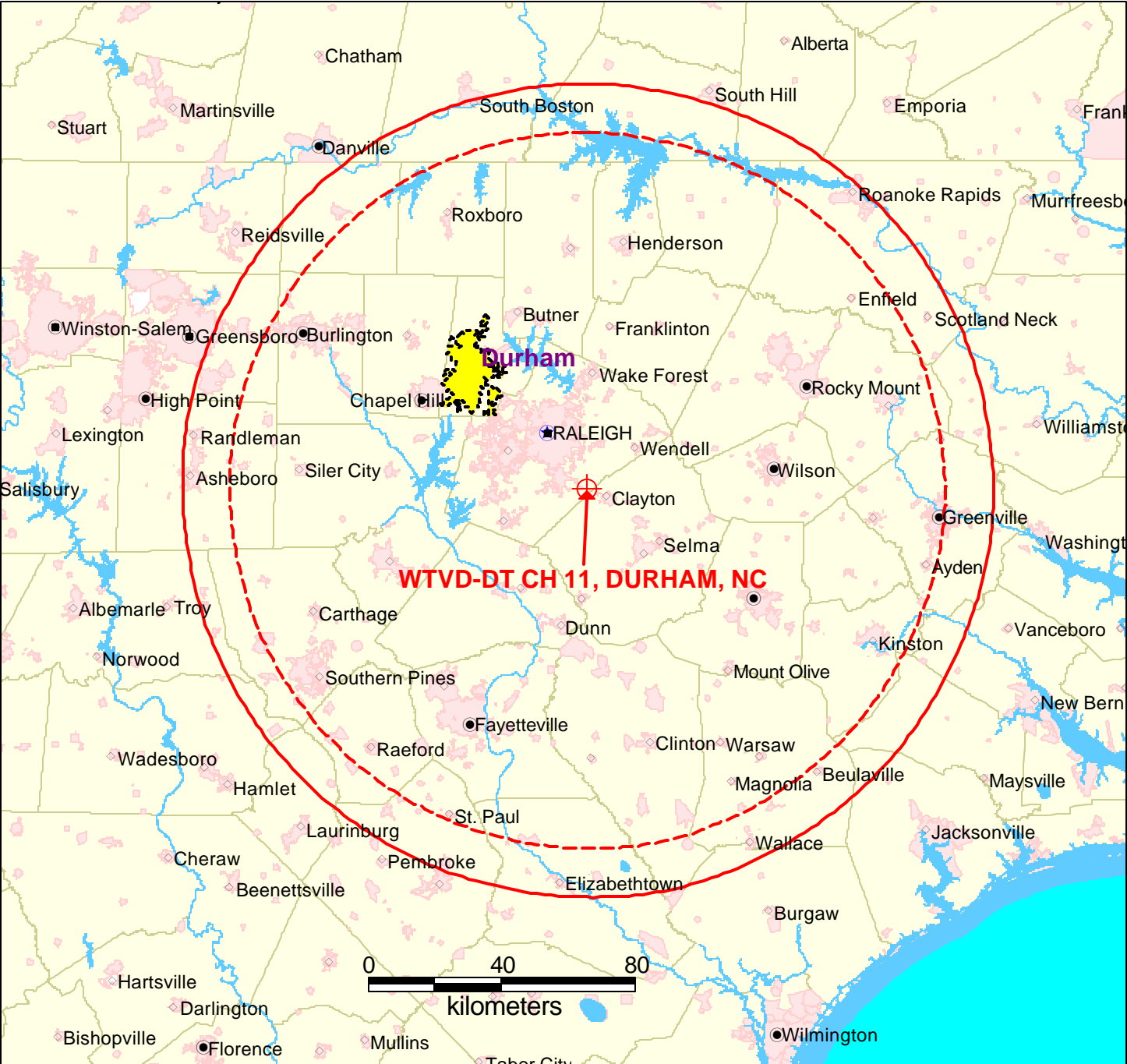
I certify that, on behalf of the WTVD Television, LLC, licensee of WTVD and WTVD-DT, I have prepared the information contained in this Engineering Statement, and that after such preparation, I have examined it and found it to be accurate and true to the best of my knowledge and belief.



Signed: _____

Alfred E. Resnick, P. E.

Dated: August 21, 2008



PREDICTED COVERAGE CONTOURS
PROPOSED WTVD-DT Ch 11, DURHAM, NC
20.7 kW, 615 mHAAT, 696 mRCAMSL, NON-D ANT

<hr style="border-top: 1px solid red;"/>	<hr style="border-top: 1px dashed red;"/>
Predicted Noise Limited Coverage Contour F(50,90), 36 dBu	Predicted Principal Community Coverage Contour F(50,90), 43 dBu

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 07-14-2008 Time: 10:44:38

Record Selected for Analysis

WTVD BPCDT -20080317AIJ DURHAM NC US
Channel 11 ERP 20.7 kW HAAT 615.0 m RCAMSL 696.0 m
Latitude 035-40-05 Longitude 0078-31-58
Status CP Zone 2 Border
Dir Antenna Make Model Beam tilt Y Ref Azimuth 0.0
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 meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	20.700	626.2	120.2
45.0	20.700	624.1	120.1
90.0	20.700	621.9	120.0
135.0	20.700	616.1	119.7
180.0	20.700	623.7	120.1
225.0	20.700	612.2	119.5
270.0	20.700	600.2	118.9
315.0	20.700	608.9	119.4

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN	
11	WTVD	DURHAM NC	BPCDT	20080317AIJ

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	WNCT-TV	GREENVILLE NC	108.4	CP MOD	BMPCDT	-20040730ARH
11	WTVI	CHARLOTTE NC	200.3	APP	BPEDT	-20080620ALW
11	WVPT	STAUNTON VA	286.1	LIC	BLEDT	-20021220ADX
11	WJHL-TV	JOHNSON CITY TN	334.9	APP	BMPCDT	-20080619ACA
12	WCTI-TV	NEW BERN NC	125.2	APP	BMPCDT	-20080619ABD
12	WWBT	RICHMOND VA	224.0	APP	BMPCDT	-20080620AHY
11	WGSJ-CA	MURRELLS INLET SC	235.7	LIC	BLTVA	-20050912AAZ

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
10	WNCT-TV	GREENVILLE NC	BMPCDT	-20040730ARH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	WSKY-TV	MANTEO NC	170.5	CP	BPCDT	-20040427ABM
09	WHMC	CONWAY SC	222.1	CP MOD	BMPEDT	-20031003ACG
10	WIS	COLUMBIA SC	336.6	LIC	BLCDT	-20030210AAV
10	WSWPTV	GRANDVIEW WV	426.5	LIC	BLET	-830831KF
11	WTVD	DURHAM NC	108.4	CP	BPCDT	-20080317AIJ
11	WTVD	DURHAM NC	108.4	PLN	DTVPLN	-DTVP1444
09	WSKY-TV	MANTEO NC	170.5	CP	BPCDT	-20040427ABM

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 1
 Before Analysis

Results for: 10A NC GREENVILLE BMPCDT 20040730ARH CP
 HAAT 575.0 m, ATV ERP 35.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1644099	47331.5
not affected by terrain losses	1627981	47199.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	257949	1808.3
lost to ATV IX only	257949	1808.3
lost to all IX	257949	1808.3

Potential Interfering Stations Included in above Scenario 1

10A SC COLUMBIA	BLCDT	20030210AAV	LIC
11A NC DURHAM	DTVPLN	DTVP1444	PLN

After Analysis

Results for: 10A NC GREENVILLE BMPCDT 20040730ARH CP
 HAAT 575.0 m, ATV ERP 35.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1644099	47331.5
not affected by terrain losses	1627981	47199.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	261328	1888.2
lost to ATV IX only	261328	1888.2
lost to all IX	261328	1888.2

Potential Interfering Stations Included in above Scenario 1

10A SC COLUMBIA	BLCDT	20030210AAV	LIC
11A NC DURHAM	BPCDT	20080317AIJ	CP

The following station failed the de minimis interference criteria.

11D NC DURHAM BPCDT 20080317AIJ
 ERP 20.70 kW HAAT 615.0 m RCAMSL 696.0 m
 Antenna none

Due to interference to the following station and scenario: 1

10D NC GREENVILLE BMPCDT 20040730ARH
 ERP 35.00 kW HAAT 575.0 m RCAMSL 585.0 m
 Antenna 9999999999999999

Percent Service lost without proposal:	0.0	to BMPCDT	20040730ARH
Percent Service lost with proposal:	0.2	to BMPCDT	20040730ARH

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
11	WTVI	CHARLOTTE NC	BPEDT	-20080620ALW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	WIS	COLUMBIA SC	129.3	LIC	BLCDT	-20030210AAV
11	WVPT	STAUNTON VA	342.7	LIC	BLEDT	-20021220ADX
11	WTOC-TV	SAVANNAH GA	364.4	LIC	BLCDT	-20020501AAO
11	WTVD	DURHAM NC	200.3	CP	BPCDT	-20080317AIJ
11	WTVD	DURHAM NC	200.3	PLN	DTVPLN	-DTVP1444
11	WJHL-TV	JOHNSON CITY TN	181.8	APP	BMPCDT	-20080619ACA

Total scenarios = 2

Result key: 2
 Scenario 1 Affected station 2
 Before Analysis

Results for: 11A NC CHARLOTTE BPEDT 20080620ALW APP
 HAAT 363.0 m, ATV ERP 2.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2322392	23534.0
not affected by terrain losses	2294546	22770.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	81797	1570.3
lost to ATV IX only	81797	1570.3
lost to all IX	81797	1570.3

Potential Interfering Stations Included in above Scenario 1

10A SC COLUMBIA	BLCDT	20030210AAV	LIC
11A GA SAVANNAH	BLCDT	20020501AAO	LIC
11A NC DURHAM	DTVPLN	DTVP1444	PLN

After Analysis

Results for: 11A NC CHARLOTTE BPEDT 20080620ALW APP
 HAAT 363.0 m, ATV ERP 2.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2322392	23534.0
not affected by terrain losses	2294546	22770.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	82104	1618.2
lost to ATV IX only	82104	1618.2
lost to all IX	82104	1618.2

Potential Interferring Stations Included in above Scenario 1

10A SC COLUMBIA	BLCDT	20030210AAV	LIC
11A GA SAVANNAH	BLCDT	20020501AAO	LIC
11A NC DURHAM	BPCDT	20080317AIJ	CP

Result key: 3
 Scenario 2 Affected station 2
 Before Analysis

Results for: 11A NC CHARLOTTE BPEDT 20080620ALW APP
 HAAT 363.0 m, ATV ERP 2.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2322392	23534.0
not affected by terrain losses	2294546	22770.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	94802	1714.1
lost to ATV IX only	94802	1714.1
lost to all IX	94802	1714.1

Potential Interferring Stations Included in above Scenario 2

10A SC COLUMBIA	BLCDT	20030210AAV	LIC
11A GA SAVANNAH	BLCDT	20020501AAO	LIC
11A TN JOHNSON CITY	BMPCDT	20080619ACA	APP
11A NC DURHAM	DTVPLN	DTVP1444	PLN

After Analysis

Results for: 11A NC CHARLOTTE BPEDT 20080620ALW APP
 HAAT 363.0 m, ATV ERP 2.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2322392	23534.0
not affected by terrain losses	2294546	22770.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	94964	1754.1
lost to ATV IX only	94964	1754.1
lost to all IX	94964	1754.1

Potential Interferring Stations Included in above Scenario 2

10A SC COLUMBIA	BLCDT	20030210AAV	LIC
11A GA SAVANNAH	BLCDT	20020501AAO	LIC
11A TN JOHNSON CITY	BMPCDT	20080619ACA	APP
11A NC DURHAM	BPCDT	20080317AIJ	CP

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
11	WVPT	STAUNTON VA	BLEDT	-20021220ADX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	WVFX	CLARKSBURG WV	154.6	CP MOD	BMPCDT	-20020930AAV
10	WSWPTV	GRANDVIEW WV	149.7	LIC	BLET	-830831KF
11	WTVI	CHARLOTTE NC	342.7	APP	BPEDT	-20080620ALW
11	WTVD	DURHAM NC	286.1	CP	BPCDT	-20080317AIJ
11	WTVD	DURHAM NC	286.1	PLN	DTVPLN	-DTVP1444
11	WJHL-TV	JOHNSON CITY TN	315.3	APP	BMPCDT	-20080619ACA
11	WBAL-TV	BALTIMORE MD	264.9	LIC	BLCDT	-20020422AAR
12	WWPX	MARTINSBURG WV	179.9	LIC	BLCDT	-20021108AAX
12	WBOYTV	CLARKSBURG WV	152.5	LIC	BLCT	-860107KG
12	WWBT	RICHMOND VA	175.0	APP	BMPCDT	-20080620AHY

Total scenarios = 2

Result key: 4
 Scenario 1 Affected station 3
 Before Analysis

Results for: 11A VA STAUNTON BLEDT 20021220ADX LIC

HAAT 680.0 m, ATV ERP 3.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	838420	34808.6
not affected by terrain losses	645738	26774.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	48133	1226.5
lost to ATV IX only	48133	1226.5
lost to all IX	48133	1226.5

Potential Interfering Stations Included in above Scenario 1

10A WV CLARKSBURG	BMPCDT	20020930AAV	CP
10A WV GRANDVIEW	BLET	830831KF	LIC
11A MD BALTIMORE	BLCDT	20020422AAR	LIC
11A NC DURHAM	DTVPLN	DTVP1444	PLN

After Analysis

Results for: 11A VA STAUNTON BLEDT 20021220ADX LIC

HAAT 680.0 m, ATV ERP 3.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	838420	34808.6
not affected by terrain losses	645738	26774.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	48958	1262.4
lost to ATV IX only	48958	1262.4
lost to all IX	48958	1262.4

Potential Interferring Stations Included in above Scenario 1

10A WV CLARKSBURG	BMPCDT	20020930AAV	CP
10A WV GRANDVIEW	BLET	830831KF	LIC
11A MD BALTIMORE	BLCDDT	20020422AAR	LIC
11A NC DURHAM	BPCDDT	20080317AIJ	CP

The following station failed the de minimis interference criteria.

11D NC DURHAM	BPCDDT	20080317AIJ
ERP 20.70 kW HAAT 615.0 m RCAMSL 696.0 m		
Antenna none		

Due to interference to the following station and scenario: 1

11D VA STAUNTON	BLEDT	20021220ADX
ERP 3.20 kW HAAT 680.0 m RCAMSL 1333.0 m		
Antenna CDB 00000000031834		

Percent Service lost without proposal:	0.0	to BLEDT	20021220ADX
Percent Service lost with proposal:	0.1	to BLEDT	20021220ADX

Result key: 5
 Scenario 2 Affected station 3
 Before Analysis

Results for: 11A VA STAUNTON BLEDT 20021220ADX LIC
 HAAT 680.0 m, ATV ERP 3.2 kW
 POPULATION AREA (sq km)
 within Noise Limited Contour 838420 34808.6
 not affected by terrain losses 645738 26774.6
 lost to NTSC IX 0 0.0
 lost to additional IX by ATV 49136 1274.4
 lost to ATV IX only 49136 1274.4
 lost to all IX 49136 1274.4

Potential Interferring Stations Included in above Scenario 2
 10A WV CLARKSBURG BMPCDT 20020930AAV CP
 10A WV GRANDVIEW BLET 830831KF LIC
 11A NC CHARLOTTE BPEDT 20080620ALW APP
 11A TN JOHNSON CITY BMPCDT 20080619ACA APP
 11A MD BALTIMORE BLCDT 20020422AAR LIC
 11A NC DURHAM DTVPLN DTVPL1444 PLN

After Analysis

Results for: 11A VA STAUNTON BLEDT 20021220ADX LIC
 HAAT 680.0 m, ATV ERP 3.2 kW
 POPULATION AREA (sq km)
 within Noise Limited Contour 838420 34808.6
 not affected by terrain losses 645738 26774.6
 lost to NTSC IX 0 0.0
 lost to additional IX by ATV 49961 1310.4
 lost to ATV IX only 49961 1310.4
 lost to all IX 49961 1310.4

Potential Interferring Stations Included in above Scenario 2
 10A WV CLARKSBURG BMPCDT 20020930AAV CP
 10A WV GRANDVIEW BLET 830831KF LIC
 11A NC CHARLOTTE BPEDT 20080620ALW APP
 11A TN JOHNSON CITY BMPCDT 20080619ACA APP
 11A MD BALTIMORE BLCDT 20020422AAR LIC
 11A NC DURHAM BPCDT 20080317AIJ CP

The following station failed the de minimis interference criteria.

11D NC DURHAM BPCDT 20080317AIJ
 ERP 20.70 kW HAAT 615.0 m RCMSL 696.0 m
 Antenna none

Due to interference to the following station and scenario: 2

11D VA STAUNTON BLEDT 20021220ADX
 ERP 3.20 kW HAAT 680.0 m RCMSL 1333.0 m
 Antenna CDB 00000000031834

Percent Service lost without proposal: 0.0 to BLEDT 20021220ADX
 Percent Service lost with proposal: 0.1 to BLEDT 20021220ADX

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
11	WJHL-TV	JOHNSON CITY TN	BMPCDT	-20080619ACA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	WBIR-TV	KNOXVILLE TN	168.8	CP MOD	BMPCDT	-20020311AAA
10	WSWPTV	GRANDVIEW WV	191.9	LIC	BLET	-830831KF
11	WTVI	CHARLOTTE NC	181.8	APP	BPEDT	-20080620ALW
11	WVPT	STAUNTON VA	315.3	LIC	BLEDT	-20021220ADX
11	WTVD	DURHAM NC	334.9	CP	BPCDT	-20080317AIJ
11	WTVD	DURHAM NC	334.9	PLN	DTVPLN	-DTVP1444
11	WHAS-TV	LOUISVILLE KY	391.2	LIC	BLCDT	-20020503AAT
12	WYMT-TV	HAZARD KY	125.7	LIC	BLCDT	-20040109ACY

Total scenarios = 2

Result key: 6
 Scenario 1 Affected station 4
 Before Analysis

Results for: 11A TN JOHNSON CITY BMPCDT 20080619ACA APP
 HAAT 708.0 m, ATV ERP 25.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1960646	46652.9
not affected by terrain losses	1361192	35277.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	45036	807.4
lost to ATV IX only	45036	807.4
lost to all IX	45036	807.4

Potential Interferring Stations Included in above Scenario 1

10A TN KNOXVILLE	BMPCDT	20020311AAA	CP
11A VA STAUNTON	BLEDT	20021220ADX	LIC
11A KY LOUISVILLE	BLCDT	20020503AAT	LIC
12A KY HAZARD	BLCDT	20040109ACY	LIC
11A NC DURHAM	DTVPLN	DTVP1444	PLN

After Analysis

Results for: 11A TN JOHNSON CITY BMPCDT 20080619ACA APP
 HAAT 708.0 m, ATV ERP 25.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1960646	46652.9
not affected by terrain losses	1361192	35277.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	45555	811.4
lost to ATV IX only	45555	811.4
lost to all IX	45555	811.4

Potential Interferring Stations Included in above Scenario 1

10A TN KNOXVILLE	BMPCDT	20020311AAA	CP
11A VA STAUNTON	BLEDT	20021220ADX	LIC
11A KY LOUISVILLE	BLCDDT	20020503AAT	LIC
12A KY HAZARD	BLCDDT	20040109ACY	LIC
11A NC DURHAM	BPCDDT	20080317AIJ	CP

Result key: 7
 Scenario 2 Affected station 4
 Before Analysis

Results for: 11A TN JOHNSON CITY BMPCDT 20080619ACA APP
 HAAT 708.0 m, ATV ERP 25.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1960646	46652.9
not affected by terrain losses	1361192	35277.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	79662	1570.3
lost to ATV IX only	79662	1570.3
lost to all IX	79662	1570.3

Potential Interferring Stations Included in above Scenario 2

10A TN KNOXVILLE	BMPCDT	20020311AAA	CP
11A NC CHARLOTTE	BPEDT	20080620ALW	APP
11A VA STAUNTON	BLEDT	20021220ADX	LIC
11A KY LOUISVILLE	BLCDDT	20020503AAT	LIC
12A KY HAZARD	BLCDDT	20040109ACY	LIC
11A NC DURHAM	DTVPLN	DTVP1444	PLN

After Analysis

Results for: 11A TN JOHNSON CITY BMPCDT 20080619ACA APP

HAAT 708.0 m, ATV ERP 25.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1960646	46652.9
not affected by terrain losses	1361192	35277.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	79662	1570.3
lost to ATV IX only	79662	1570.3
lost to all IX	79662	1570.3

Potential Interferring Stations Included in above Scenario 2

10A TN KNOXVILLE	BMPCDT	20020311AAA	CP
11A NC CHARLOTTE	BPEDT	20080620ALW	APP
11A VA STAUNTON	BLEDT	20021220ADX	LIC
11A KY LOUISVILLE	BLCDT	20020503AAT	LIC
12A KY HAZARD	BLCDT	20040109ACY	LIC
11A NC DURHAM	BPCDT	20080317AIJ	CP

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WCTI-TV	NEW BERN NC	BMPCDT	-20080619ABD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WTVD	DURHAM NC	125.2	CP	BPCDT	-20080317AIJ
11	WTVD	DURHAM NC	125.2	PLN	DTVPLN	-DTVP1444
12	WWTB	RICHMOND VA	267.4	APP	BMPCDT	-20080620AHY
13	WVEC-TV	HAMPTON VA	205.7	LIC	BLCDT	-20020412AAT
13	WBTW	FLORENCE SC	199.0	CP	BPCDT	-19991015ABP

Total scenarios = 1

Result key: 8

Scenario 1 Affected station 5

Before Analysis

Results for: 12A NC NEW BERN BMPCDT 20080619ABD APP

HAAT 589.0 m, ATV ERP 32.8 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1448744	47560.6
not affected by terrain losses	1444269	47492.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	65735	937.1
lost to ATV IX only	65735	937.1
lost to all IX	65735	937.1

Potential Interfering Stations Included in above Scenario 1

12A VA RICHMOND	BMPCDT	20080620AHY	APP
11A NC DURHAM	DTVPLN	DTVP1444	PLN

After Analysis

Results for: 12A NC NEW BERN BMPCDT 20080619ABD APP

HAAT 589.0 m, ATV ERP 32.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1448744	47560.6
not affected by terrain losses	1444269	47492.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	67709	1005.2
lost to ATV IX only	67709	1005.2
lost to all IX	67709	1005.2

Potential Interferring Stations Included in above Scenario 1

12A VA RICHMOND	BMPCDT	20080620AHY	APP
11A NC DURHAM	BPCDT	20080317AIJ	CP

The following station failed the de minimis interference criteria.

11D NC DURHAM	BPCDT	20080317AIJ
ERP 20.70 kW	HAAT 615.0 m	RCAMSL 696.0 m
Antenna	none	

Due to interference to the following station and scenario: 1

12D NC NEW BERN	BMPCDT	20080619ABD
ERP 32.80 kW	HAAT 589.0 m	RCAMSL 602.0 m
Antenna	999999999999999	

Percent Service lost without proposal:	0.0	to BMPCDT	20080619ABD
Percent Service lost with proposal:	0.1	to BMPCDT	20080619ABD

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WWBT	RICHMOND VA	BMPCDT	-20080620AHY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WVPT	STAUNTON VA	175.0	LIC	BLEDT	-20021220ADX
11	WTVD	DURHAM NC	224.0	CP	BPCDT	-20080317AIJ
11	WTVD	DURHAM NC	224.0	PLN	DTVPLN	-DTPV1444
11	WBAL-TV	BALTIMORE MD	216.4	LIC	BLCDT	-20020422AAR
12	WWPX	MARTINSBURG WV	222.3	LIC	BLCDT	-20021108AAX
12	WCTI-TV	NEW BERN NC	267.4	APP	BMPCDT	-20080619ABD
12	WBOYTV	CLARKSBURG WV	315.7	LIC	BLCT	-860107KG
12	WHYY-TV	WILMINGTON DE	343.3	CP	BDTV	-0000
13	WSET-TV	LYNCHBURG VA	189.4	CP MOD	BMPCDT	-20021001AAJ
13	WJZ-TV	BALTIMORE MD	216.4	CP	BFRCT	-20050811AAV
13	WVEC-TV	HAMPTON VA	119.5	LIC	BLCDT	-20020412AAT

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
11	WGSJ-CA	MURRELLS INLET SC	BLTVA	-20050912AAZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WTVI	CHARLOTTE NC	241.6	APP	BPEDT	-20080620ALW
11	WTOG-TV	SAVANNAH GA	274.6	LIC	BLCDT	-20020501AAO
11	WTVD	DURHAM NC	235.7	CP	BPCDT	-20080317AIJ
11	WTVD	DURHAM NC	235.7	PLN	DTVPLN	-DTVPL1444

Proposal causes no interference

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Analysis of Interference to Affected Station 8

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
11	WTVD	DURHAM NC	DTVPLN	-DTVP1444

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
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Results for: 11A NC DURHAM DTVPLN DTVP1444 PLN

HAAT 607.0 m, ATV ERP 19.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	2965721	44193.0
not affected by terrain losses	2939705	43512.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
11	WTVD	DURHAM NC	BPCDT	-20080317AIJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	WNCT-TV	GREENVILLE NC	108.4	CP MOD	BMPCDT	-20040730ARH
11	WTVI	CHARLOTTE NC	200.3	APP	BPEDT	-20080620ALW
11	WVPT	STAUNTON VA	286.1	LIC	BLEDT	-20021220ADX
11	WJHL-TV	JOHNSON CITY TN	334.9	APP	BMPCDT	-20080619ACA
12	WCTI-TV	NEW BERN NC	125.2	APP	BMPCDT	-20080619ABD
12	WWBT	RICHMOND VA	224.0	APP	BMPCDT	-20080620AHY

Total scenarios = 2

Result key: 9
Scenario 1 Affected station 8
Before Analysis

Results for: 11A NC DURHAM BPCDT 20080317AIJ CP
HAAT 615.0 m, ATV ERP 20.7 kW
POPULATION AREA (sq km)
within Noise Limited Contour 3006609 45083.0
not affected by terrain losses 2978539 44410.5
lost to NTSC IX 0 0.0
lost to additional IX by ATV 88761 1683.3
lost to ATV IX only 88761 1683.3
lost to all IX 88761 1683.3

Potential Interferring Stations Included in above Scenario 1

10A NC GREENVILLE BMPCDT 20040730ARH CP
11A VA STAUNTON BLEDT 20021220ADX LIC

Result key: 10
Scenario 2 Affected station 8
Before Analysis

Results for: 11A NC DURHAM BPCDT 20080317AIJ CP
HAAT 615.0 m, ATV ERP 20.7 kW
POPULATION AREA (sq km)
within Noise Limited Contour 3006609 45083.0
not affected by terrain losses 2978539 44410.5
lost to NTSC IX 0 0.0
lost to additional IX by ATV 139085 3032.4
lost to ATV IX only 139085 3032.4
lost to all IX 139085 3032.4

Potential Interferring Stations Included in above Scenario 2

10A NC GREENVILLE BMPCDT 20040730ARH CP
11A NC CHARLOTTE BPEDT 20080620ALW APP
11A VA STAUNTON BLEDT 20021220ADX LIC
11A TN JOHNSON CITY BMPCDT 20080619ACA APP
12A NC NEW BERN BMPCDT 20080619ABD APP

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