

WTJX-DT CHANNEL 44 MINOR MODIFICATION OF
CONSTRUCTION PERMIT APPLICATION
CHARLOTTE AMALIE, USVI
(VIRGIN ISLANDS PUBLIC TELEVISION SYSTEM)

KESSLER & GEHMAN ASSOCIATES, INC.
TELECOMMUNICATIONS CONSULTING ENGINEERS

20030529

Prepared by William T. Godfrey



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ENGINEERING TECHNICAL STATEMENT PREPARED BY WILLIAM T. GODFREY OF THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC., TELECOMMUNICATIONS CONSULTING ENGINEERS, IN CONNECTION WITH A MINOR MODIFICATION OF CONSTRUCTION PERMIT APPLICATION TO OPERATE THE VIRGIN ISLANDS PUBLIC TELEVISION SYSTEM'S ("VIPTS") DIGITAL BROADCAST STATION, WTJX-DT CHANNEL 44, AT ITS ALLOTTED EFFECTIVE RADIATED POWER OF 50 KW.

The firm Kessler and Gehman Associates, Inc. was retained by the Virgin Islands Public Television System ("VIPTS"), Charlotte Amalie, USVI to prepare engineering studies and the engineering portion of a minor modification of construction permit application to operate WTJX-DT Channel 44 at its allotted effective radiated power ("ERP") of 50 kW.

Discussion

The VIPTS currently has a CP (BPEDT20000217ABD) to build and operate WTJX-DT on DTV Channel 44 with an ERP of 50 kW at an antenna height radiation center of 21.3 meters above ground level ("AGL") using a Harris model HSEF-8C/SM directional antenna. The initial DTV application for construction permit was filed several years ago when Harris Corporation was still selling broadcast antennas. Obviously, since Harris discontinued selling antennas, the VIPTS was not able to purchase the Harris model HSEF-8C/SM as originally planned and they had to go to a different antenna manufacturer to find an antenna that would meet the Harris specifications as closely as possible. The VIPTS made the decision to go with the Dielectric model TLP-8 S180 directional antenna which has an azimuth pattern very similar to the Harris azimuth pattern but with relative field values exceeding the Harris pattern relative field values in various azimuthal directions.

Since the proposed azimuth pattern's relative field values exceeded the authorized azimuth pattern relative field values in various azimuthal directions, it was determined that the ERP had to be reduced from 50 kW down to 45 kW so that the proposed pattern would be completely encompassed by the authorized pattern. Accordingly, the VIPTS filed a special temporary authorization ("STA") in April 2003 requesting a 5 kW reduction in ERP in order to be in compliance with FCC requirements. The FCC authorized an emergency STA in April 2003 so that WJCT-DT could continue operation at reduced facilities with the Dielectric antenna and the FCC officially granted the STA in May 2003. The FCC prepared a letter, dated May 22, 2003, which stated that the VIPTS met the FCC's May 2003 deadline for the completion of construction of its noncommercial educational DTV facility. The letter also stated that any DTV construction permit issued to the VIPTS would automatically be extended until further notice.

Now that the VIPTS has met the May 2003 deadline by operating with a reduced power facility, they would like to increase the ERP of the WJCT-DT facility back to the allotted 50 kW. It was previously stated that proposed antenna change, with WJCT-DT operating with an ERP of 50 kW, would cause the proposed azimuth pattern's relative field values to slightly exceed the authorized azimuth pattern relative field values in various azimuthal directions. Therefore, to increase the ERP from 45 kW to 50 kW, using the Dielectric TLP-8 S180 antenna, it is necessary to run interference studies to verify that the increased pattern would not cause unacceptable interference to any applicable surrounding stations.

Exhibit 12 is principal community coverage map, using a contour that is 7 dB stronger than the DTV service contour values for Channel 44, to show that the proposed facility would encompass the of entire principal community of Charlotte Amalie.

Exhibit 13 is an FCC contour map depicting the authorized F(50,90) 41.5 dBuV/m noise limited contour and the proposed F(50,90) 41.5 dBuV/m noise limited contour. It is not clear that the boundaries of the proposed noise limited contour exceed the boundaries of the authorized noise limited contour in various azimuthal directions but close inspection will show that it does. Exhibits 14 through 16 verify that the authorized azimuth pattern boundaries would be exceeded.

Exhibit 14 contains the authorized facility's distance to contour data (in kilometers) every one degree and Exhibit 15 contains the proposed facility's distance to contour data (in kilometers) every one degree. Exhibit 16 compares the data from Exhibits 14 and 15 and depicts the distance to contour values of the CP facility in column 1 and the distance to contour values of the proposed facility in column 2. Column three contains a simple formula (in each cell) which subtracts column 2 from column 1 and determines whether the proposed noise limited contour is greater than the CP noise limited contour or if the proposed noise limited contour is less than or equal to the CP noise limited contour. If the distance to contour value of the proposed facility is less than or equal to the distance to contour value of the CP facility, the cell will depict the word "PASS" and will have a green background. If the distance to contour value of the proposed facility is greater than the distance to contour value of the CP facility, the cell will depict the word "FAIL" and will have a red background. Exhibit 16 verifies that the proposed facility's noise limited contour would exceed the CP facility's noise limited contour in various azimuthal directions. Therefore, interference studies are required.

Interference Studies

The Longley-Rice interference studies were performed using a Sun Microsystems SPARC 5 computer work station loaded with the FCC's TV Interference and Spacing Analysis software (Exhibit 17) which complies with the FCC mandated application-processing guidelines for digital television. This software is in accordance with the standards established in the FCC Public Notice #3060-0841 pertaining to DTV studies and DTV application preparation dated August 10, 1998.

Spacing violations were found between the following stations:

- WMTJ FAJARDO, PR
- WVEO AGUADILLA, PR
- WIDP-DT GUAYAMA, PR
- WZDE CAROLINA, PR

The interference studies verified that the proposed WTJX-DT Channel 44 station would not cause above de minimis interference to WMTJ, WVEO, WIDP-DT or WZDE.

The proposed facility did not violate the following: 1) FCC Monitoring stations; 2) West Virginia quiet zone; 3) Table Mountain; 4) Canadian mileage spacing; 5) Mexican mileage spacing; or 6) AM broadcast stations.

The W29CB Class A facility's F(50,50) 74.0 dBuV/m service contour is completely encompassed by the proposed WTJX-DT facility's F(50,90) 41.5 dBuV/m noise limited contour (see Exhibit 18). A worst-case, head-on Longley-Rice interference study which calculated predicted interference from the proposed WTJX-DT facility to the licensed W29CB Class A facility, without considering any other applicable surrounding stations (no masking), verified that the licensed W29CB Class A facility would receive no

interference (0.0%) from the proposed WTJX-DT Channel 44 facility (see Exhibit 19). Therefore, in accordance with §73.613(j) of the FCC rules, the VIPTS requests a waiver of the interference protection requirements of §73.613 to make full use of Longley-Rice terrain dependent propagation methods to demonstrate that the proposed facility would not be likely to cause interference to Class A TV stations.

Transmitter Site

The WTJX-DT antenna is a side-mount Dielectric model TLP-8 S180, horizontally polarized, directional, DTV antenna. The tower is registered with the FCC and has a registration number of 1024797. The support structure is located 1.3 miles NW of Charlotte Amalie, USVI. The antenna height radiation center is 21.3 meters above ground level. The overall height of the support structure is 35.1 meters AGL as depicted in the FCC Antenna Structure Registration (“ASR”) and Exhibit 3’s elevation view of the support structure.

Exhibits

Exhibits 1 and 2 represent WTJX-DT’s administration data, antenna and antenna structure specifications

Exhibit 3 depicts the profile view of the proposed antenna on the antenna structure with all the appropriate elevations.

Exhibits 4 and 5 display the azimuth pattern and azimuth pattern tabulation respectively.

Exhibits 6 and 7 display the elevation pattern and Exhibit 8 displays the elevation pattern tabulation.

Exhibits 9 and 10 display the ERP-dBk pattern and tabulation respectively.

Exhibit 11 depicts the location of the WTJX-DT site on a 7.5-Minute (Series) Topographic map.

Exhibit 12 depicts the proposed WTJX-DT noise limited contour, boundaries of the principal community to be served, and the transmitting location with radials every 45°.

Exhibit 13 depicts the WTJX-DT Channel 44 CP noise limited contour and the proposed WTJX-DT Channel 44 noise limited contour.

Exhibit 14 depicts the authorized facility’s distance to contour data every one degree.

Exhibit 15 depicts the proposed facility’s distance to contour data every one degree.

Exhibit 16 compares the data from Exhibits 14 and 15 and shows that the proposed ERP does exceed the authorized ERP in various azimuthal directions, proving that interference studies are required.

Exhibit 17 is a detailed Longley-Rice interference study of proposed WTJX-DT Channel 44 station to all applicable surrounding stations.

Exhibit 18 is a contour map depicting the W29CB Class A facility’s F(50,50) 74.0 dBuV/m service contour and the proposed WTJX-DT facility’s F(50,90) 41.5 dBuV/m noise limited contour to

demonstrate that the Class A facility's contour is completely encompassed by the proposed WTJX-DT facility's contour.

Exhibit 19 is a Longley-Rice interference study to show that the licensed W29CB Class A facility would receive no interference (0.0%) from the proposed WTJX-DT Channel 44 facility. A waiver has been requested to make full use of Longley-Rice terrain dependent propagation methods to demonstrate that the proposed facility would not be likely to cause interference to Class A TV stations. Exhibit 19 demonstrates that the proposed facility would not be likely to cause interference to the W29CB Class A station.

Environmental Impact

The proposed construction will have no significant environmental impact as defined in §1.1307 of the FCC Rules. The DTV transmitter, 2-1/4 inch (50-ohm) transmission line and antenna system will produce an ERP of 50 kW. It was determined that the maximum lobe of radiation from the base of the tower out to 300 feet occurs at approximately 34.9 feet from the base of the tower. At approximately 34.9 feet from the base of the tower, the depression angle of the main lobe is approximately 63.5° below the horizontal. At that point, the relative field is 0.231 and the power density six feet above the ground is 0.235 mW/cm². This is 10.8% of the maximum permissible exposure ("MPE") limits for Occupational/Controlled Exposure and 54.0% of the MPE limits for General Population/Uncontrolled Exposure authorized by the American National Standards Institute ("ANSI"). Since the proposed operation of WTJX-DT Channel 44 will exceed 5.0 percent of the MPE limit for both Occupational/Controlled and General Population/Uncontrolled Exposure within 300 feet of the base of the tower, WTJX-DT is considered to be a "significant contributor" to the RF exposure environment pursuant to OET Bulletin 65, Edition 97-01. Therefore, contributions of exposure from other sources on the WTJX support structure must be accounted for in this analysis. The only other antennas on the WTJX tower are the following: 1) WTJX-TV Channel 12; 2) MDS stations: KNSC531, KNSC532, KNSC535, KNSC536, KNSC537 and WNC892; and 3) WFIG-LP Channel 5.

For WTJX-TV Channel 12, it was determined that the maximum lobe of radiation from the base of the tower out to 300 feet occurs at 300 feet from the base of the tower. At approximately 300 feet from the base of the tower, the depression angle of the main lobe is approximately 19.3° below the horizontal. At that point, the relative field is 0.240 and the power density six feet above the ground is 0.031 mW/cm². This is 3.1% of the MPE limits for Occupational/Controlled Exposure and 15.4% of the MPE limits for General Population/Uncontrolled Exposure authorized by the ANSI. The combined controlled and uncontrolled MPE percentages for the WTJX-DT and WTJX-TV facilities are 13.9% Occupational/Controlled Exposure and 69.4% General Population/Uncontrolled Exposure but we still have to consider the MDS and LPTV antennas on the tower.

The analog transmitters, transmission line and antenna systems for the KNSC531, KNSC532, KNSC535, KNSC536, KNSC537 and WNC892 MDS antennas produce a maximum EIRP of 129 watts using a total of fifteen channels. Assuming that the maximum radiation for the combined MDS antennas is oriented at the base of the tower, the power density six feet above the ground would be 0.031 mW/cm². This is only 0.61% of the MPE limits for Occupational/Controlled Exposure and 3.1% of the MPE limits for General Population/Uncontrolled Exposure authorized by the ANSI. The combined controlled and uncontrolled MPE percentages for the WTJX-DT, WTJX-TV, and the MDS facilities are 14.5% Occupational/Controlled Exposure and 72.5% General Population/Uncontrolled Exposure but we still have to consider the LPTV antenna on the tower.

The analog transmitter, transmission line and antenna system for the WFIG-LP Channel 5 low power television ("LPTV") facility produces an ERP of 50 watts. Assuming that the maximum lobe of radiation was oriented toward the base of the tower, it would produce a power density six feet above the ground of 0.005 mW/cm^2 . This is only 0.052% of the MPE limits for Occupational/Controlled Exposure and 0.261% of the MPE limits for General Population/Uncontrolled Exposure authorized by the ANSI. The combined controlled and uncontrolled MPE percentages for all antennas on the tower (WTJX-DT/WTJX-TV/MDS/LPTV) are 14.6% Occupational/Controlled Exposure and 72.8% General Population/Uncontrolled Exposure which are below the maximum permissible exposure threshold for both Occupational/Controlled Exposure and General Population/Uncontrolled Exposure. Therefore, it is safe to conclude that the emissions will be insignificant and well within the maximum allowable requirements.

If other antennas are placed on the tower in the future, the applicant will cooperate with those users by reducing or completely terminating the power to the antenna when maintenance workers are in danger from the electromagnetic radiation emanating from the antenna.

Certification

This technical statement was prepared by William T. Godfrey, Telecommunications Consultant with Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida and has been working in the field of radio and television broadcast consulting since 1998. He graduated from the University of North Florida with a Bachelor of Arts degree in Criminal Justice and a minor in Mathematics in 1993. As a Professional in the field of Telecommunications he states under penalty of perjury that the information contained in this report is true and correct to the best of his knowledge and belief.


KESSLER AND GEHMAN ASSOCIATES, INC.


WILLIAM T. GODFREY

Telecommunications Consultant

02 June, 2003

WTJX-DT
Charlotte Amalie, USVI

ENGINEERING SPECIFICATIONS

A. Transmitter Site:

Geographic coordinates (NAD27):

North Latitude	18° 21' 26"
West Longitude	64° 56' 50"

Transmitter Site Location: **Signal Hill**
1.3 miles NW of Charlotte Amalie

B. Main Studio Site Address: 158-158A
St. Thomas, VI 00801

C. Proposed Facility:

DTV Channel	Number	44
	Frequency	650-656 MHz

D. Antenna Height:

Height of Site Above Mean Sea Level (AMSL)	451.1 M
Overall Height of Structure Above Ground	35.1 M
(including all appurtenances)	
Overall Height of Structure Above Mean Sea Level	486.2 M
(including all appurtenances)	
Height of Site Above Average Terrain	436.6 M
Antenna Height Radiation Center (R/C) Above Ground	21.3 M
Antenna Height R/C Above Mean Sea Level	472.4 M
Average of All Non-Odd Radials	14.5 M
Antenna Height R/C Above Average Terrain	457.9 M

E. System Parameters – Horizontal Polarization:

Transmitter Power Required	3.9 kW
Maximum Power Input to Antenna	3.5 kW
Total System Loss	0.53 dB
Transmission Line Efficiency	88.5%
Maximum Antenna Gain in Beam Maximum	11.58 dB
Maximum Antenna Gain in Horizontal Plane	11.49 dB
Maximum Effective Radiated Power	16.99 dBk
In Beam Maximum	50.0 kW
Maximum Effective Radiated Power	16.90 dBk
In Horizontal Plane	49.0 kW

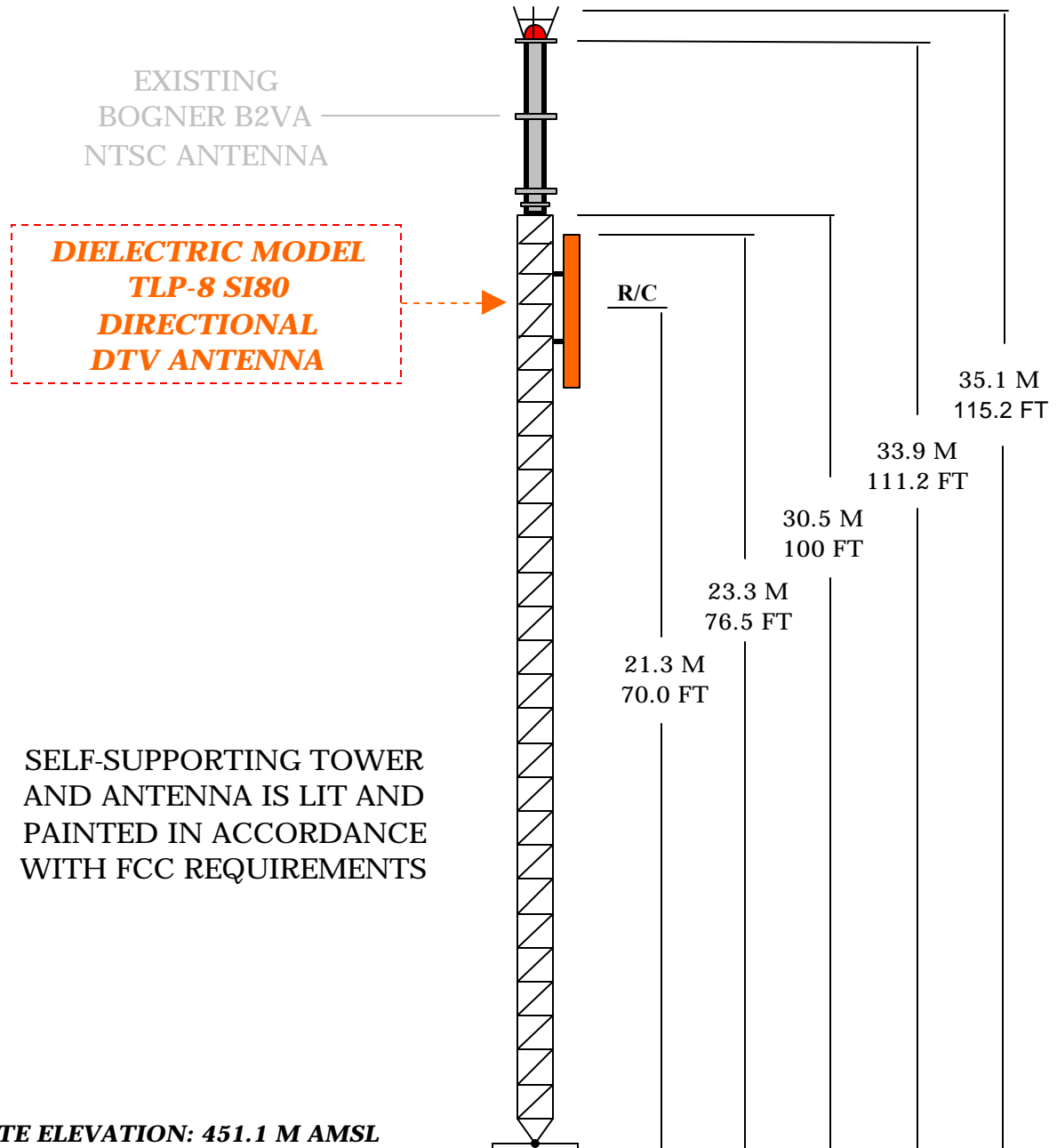
WTJX-DT
Charlotte Amalie, USVI

**DATA FOR PROPOSED DTV
DIRECTIONAL TRANSMITTING ANTENNA**

- A. **Antenna:** Dielectric Model TLP-8 S180, Horizontally Polarized, Directional (Skull) DTV Side-Mount Antenna
- B. **Electrical Beam Tilt:** 0.5°
- C. **Mechanical Beam Tilt:** None
- D.

<u>Maximum Power Gain</u>	<u>Horizontal Polarization</u>
Maximum:	14.4 (11.58 dB)
Horizontal:	14.1 (11.49 dB)
- E. **Length:** 13.0 feet (4.0 meters) side-mount
- F. **Transmitter Power Output (TPO):** 3.9 kW
- G. **Null Fill:** 9.7%
- H. **Transmission Line:** 2-1/4" 50-ohm Heliax
- I. **Transmission Line Loss:** 0.461 dB/100-feet
- J. **Total Transmission Line:** 115 feet
- K. **Transmission Line Attenuation:** 0.53 dB

ELEVATION VIEW



OVERALL HEIGHT AGL:	35.1 M
OVERALL HEIGHT AMSL:	486.2 M
RADIATION CENTER AGL:	21.3 M
RADIATION CENTER AMSL:	472.4 M
AVERAGE OF NON-ODD RADIALS:	14.5 M
RADIATION CENTER HAAT:	457.9 M
SITE HAAT:	436.6 M

COORDINATES: (NAD 27)

N. LATITUDE 18° 21' 26"

W. LONGITUDE 64° 56' 50"

Antenna Structure Registration Number:
1024797

NOTE: NOT TO SCALE

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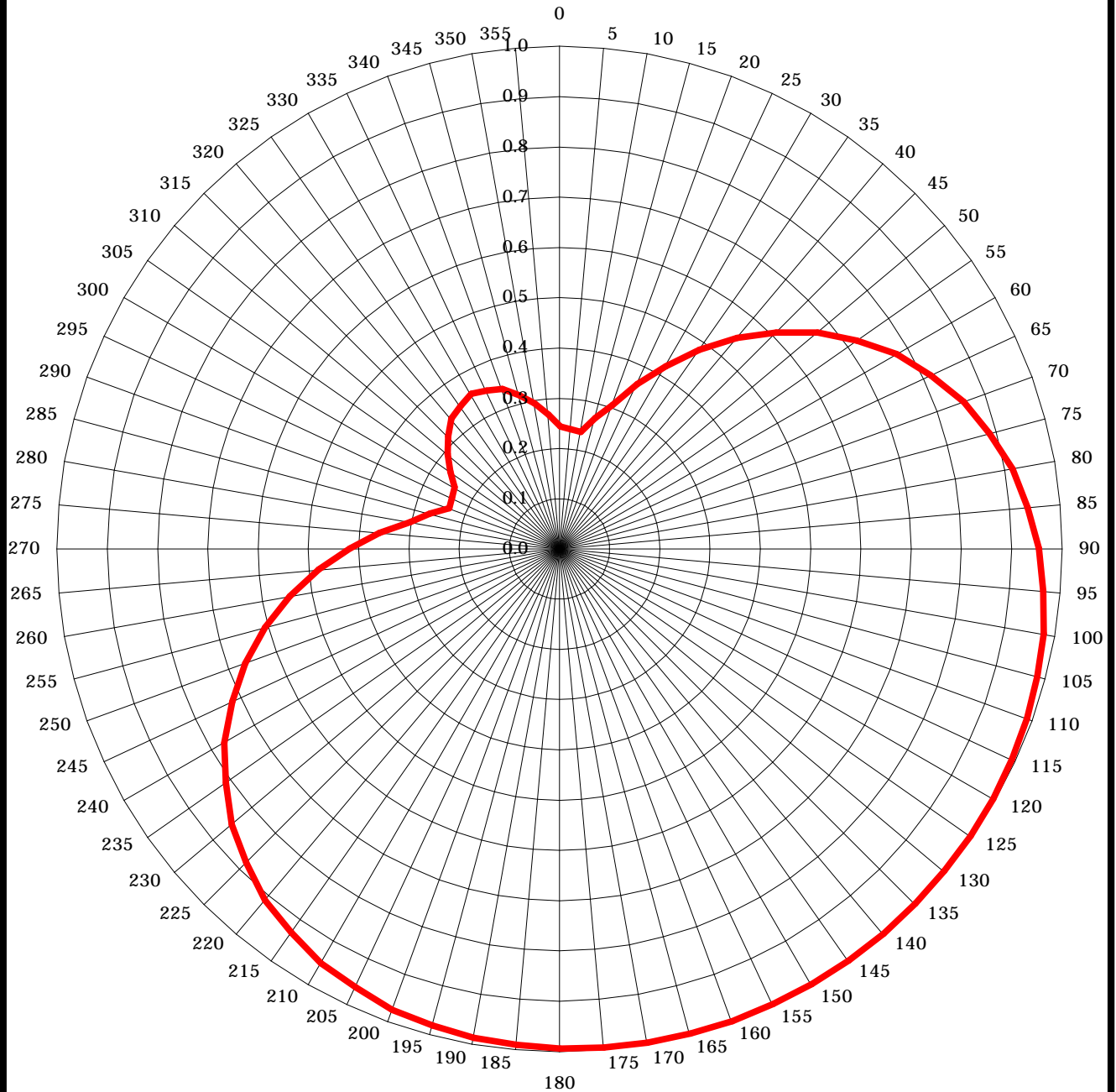
WTJX-DT CHANNEL 44

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EXHIBIT 3

RELATIVE FIELD AZIMUTH PATTERN



DIELECTRIC MODEL TLP-8 S180
ORIENTED WITH BEAM MAXIMA AT 150°
PEAK DIRECTIONAL GAIN: 11.58 dB
ELECTRICAL BEAM TILT: 0.50°

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EXHIBIT 4

WTJX-DT CHANNEL 44

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TABULATION OF RELATIVE FIELD FOR PROPOSED DIRECTIONAL ANTENNA

<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>	<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>
N000°E	0.242	N180°E	0.995
N010°E	0.235	N190°E	0.988
N020°E	0.303	N200°E	0.976
N030°E	0.419	N210°E	0.952
N040°E	0.547	N220°E	0.913
N050°E	0.668	N230°E	0.854
N060°E	0.772	N240°E	0.772
N070°E	0.854	N250°E	0.668
N080°E	0.913	N260°E	0.547
N090°E	0.952	N270°E	0.419
N100°E	0.976	N280°E	0.303
N110°E	0.988	N290°E	0.235
N120°E	0.995	N300°E	0.242
N130°E	0.998	N310°E	0.293
N140°E	1.000	N320°E	0.338
N150°E	1.000	N330°E	0.355
N160°E	1.000	N340°E	0.338
N170°E	0.998	N350°E	0.293

MAXIMUM RELATIVE FIELD OF 1.000

MINIMUM RELATIVE FIELD OF 0.235

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WTJX-DT CHANNEL 44

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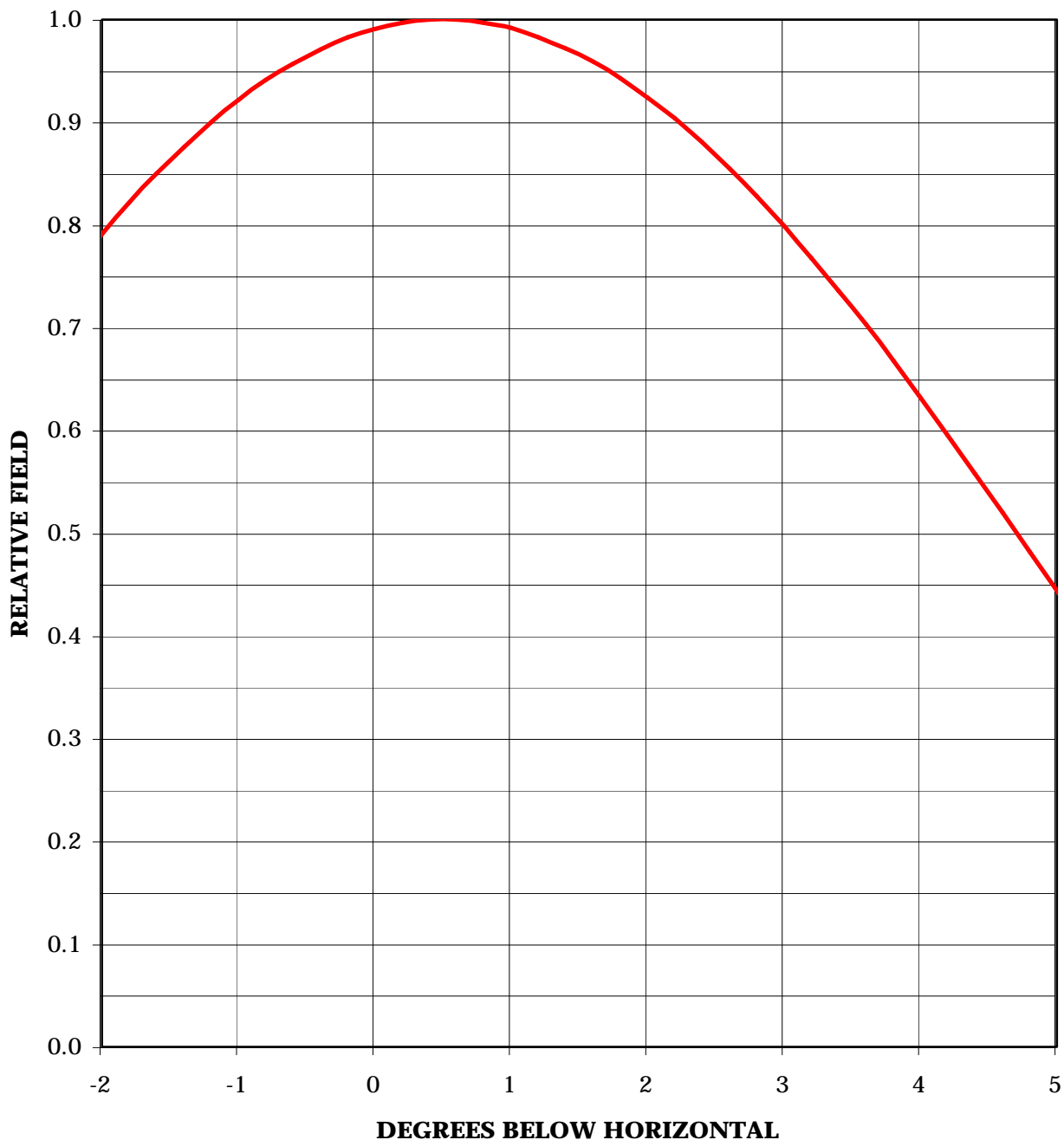
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EXHIBIT 5

ELEVATION PATTERN

DIELECTRIC MODEL TLP-8 S180

RMS GAIN AT MAIN LOBE:	8.00 (9.03 dB)	ELECTRICAL BEAM TILT:	0.50°
RMS GAIN AT HORIZONTAL:	7.90 (8.98 dB)	MECHANICAL BEAM TILT:	N/A
CALCULATED/MEASURED:	CALCULATED	FREQUENCY:	653.00 MHz



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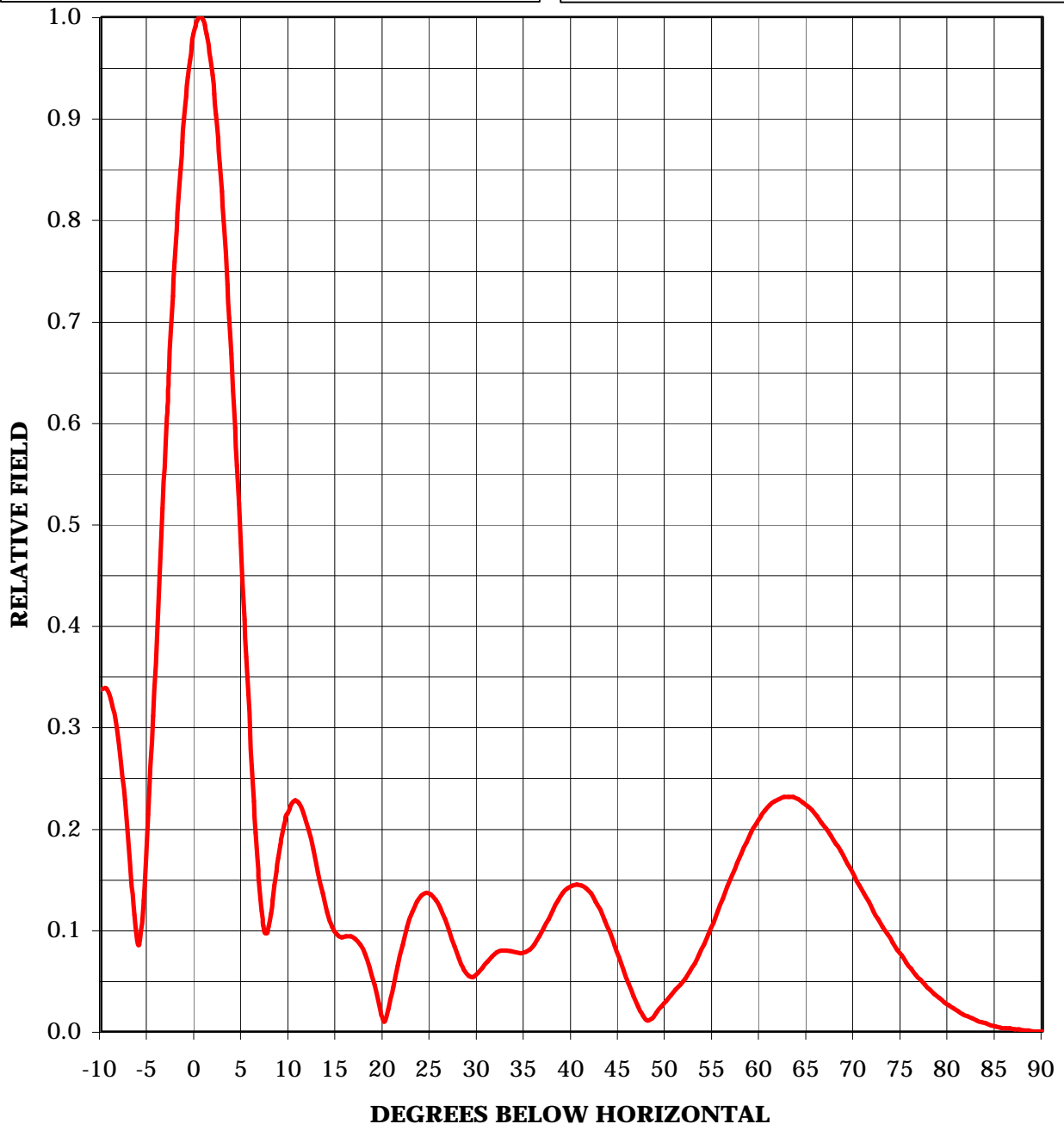
WTJX-DT CHANNEL 44
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20030529 **EXHIBIT 6**

ELEVATION PATTERN

DIELECTRIC MODEL TLP-8 S180

RMS GAIN AT MAIN LOBE:	8.00 (9.03 dB)
RMS GAIN AT HORIZONTAL:	7.90 (8.98 dB)
CALCULATED/MEASURED:	CALCULATED

ELECTRICAL BEAM TILT:	0.50°
MECHANICAL BEAM TILT:	N/A
FREQUENCY:	653.00 MHz



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WTJX-DT CHANNEL 44
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EXHIBIT 7

WTJX-DT CHANNEL 44

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TABULATION OF RELATIVE FIELD FOR PROPOSED DIRECTIONAL ANTENNA

ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD	ANGLE	FIELD
-10.0	0.337	2.4	0.881	10.6	0.228	30.5	0.063	51.0	0.041	71.5	0.128
-9.5	0.338	2.6	0.855	10.8	0.227	31.0	0.069	51.5	0.046	72.0	0.119
-9.0	0.328	2.8	0.828	11.0	0.225	31.5	0.074	52.0	0.052	72.5	0.111
-8.5	0.307	3.0	0.799	11.5	0.215	32.0	0.078	52.5	0.059	73.0	0.103
-8.0	0.273	3.2	0.768	12.0	0.199	32.5	0.080	53.0	0.067	73.5	0.096
-7.5	0.228	3.4	0.736	12.5	0.179	33.0	0.080	53.5	0.076	74.0	0.088
-7.0	0.173	3.6	0.703	13.0	0.157	33.5	0.079	54.0	0.086	74.5	0.081
-6.5	0.115	3.8	0.668	13.5	0.136	34.0	0.078	54.5	0.096	75.0	0.075
-6.0	0.085	4.0	0.632	14.0	0.117	34.5	0.077	55.0	0.107	75.5	0.068
-5.5	0.129	4.2	0.595	14.5	0.103	35.0	0.078	55.5	0.119	76.0	0.062
-5.0	0.214	4.4	0.558	15.0	0.096	35.5	0.081	56.0	0.131	76.5	0.056
-4.5	0.311	4.6	0.520	15.5	0.093	36.0	0.086	56.5	0.143	77.0	0.051
-4.0	0.413	4.8	0.482	16.0	0.094	36.5	0.094	57.0	0.154	77.5	0.046
-3.5	0.516	5.0	0.444	16.5	0.094	37.0	0.102	57.5	0.166	78.0	0.041
-3.0	0.615	5.2	0.406	17.0	0.091	37.5	0.111	58.0	0.176	78.5	0.037
-2.8	0.653	5.4	0.369	17.5	0.086	38.0	0.120	58.5	0.186	79.0	0.033
-2.6	0.690	5.6	0.332	18.0	0.076	38.5	0.129	59.0	0.196	79.5	0.029
-2.4	0.725	5.8	0.296	18.5	0.063	39.0	0.136	59.5	0.204	80.0	0.026
-2.2	0.759	6.0	0.261	19.0	0.046	39.5	0.141	60.0	0.211	80.5	0.023
-2.0	0.791	6.2	0.227	19.5	0.027	40.0	0.144	60.5	0.218	81.0	0.020
-1.8	0.822	6.4	0.196	20.0	0.010	40.5	0.145	61.0	0.223	81.5	0.017
-1.6	0.850	6.6	0.166	20.5	0.022	41.0	0.144	61.5	0.227	82.0	0.015
-1.4	0.876	6.8	0.141	21.0	0.044	41.5	0.141	62.0	0.229	82.5	0.013
-1.2	0.900	7.0	0.119	21.5	0.065	42.0	0.136	62.5	0.231	83.0	0.011
-1.0	0.922	7.2	0.104	22.0	0.085	42.5	0.128	63.0	0.231	83.5	0.009
-0.8	0.941	7.4	0.097	22.5	0.103	43.0	0.120	63.5	0.231	84.0	0.008
-0.6	0.957	7.6	0.097	23.0	0.117	43.5	0.109	64.0	0.229	84.5	0.006
-0.4	0.971	7.8	0.104	23.5	0.128	44.0	0.098	64.5	0.226	85.0	0.005
-0.2	0.983	8.0	0.116	24.0	0.134	44.5	0.086	65.0	0.222	85.5	0.004
0.0	0.991	8.2	0.130	24.5	0.137	45.0	0.073	65.5	0.218	86.0	0.003
0.2	0.997	8.4	0.144	25.0	0.135	45.5	0.060	66.0	0.212	86.5	0.003
0.4	1.000	8.6	0.158	25.5	0.130	46.0	0.047	66.5	0.206	87.0	0.002
0.6	1.000	8.8	0.171	26.0	0.122	46.5	0.035	67.0	0.200	87.5	0.002
0.8	0.997	9.0	0.184	26.5	0.111	47.0	0.025	67.5	0.193	88.0	0.001
1.0	0.992	9.2	0.194	27.0	0.098	47.5	0.016	68.0	0.185	88.5	0.001
1.2	0.983	9.4	0.204	27.5	0.084	48.0	0.011	68.5	0.178	89.0	0.000
1.4	0.972	9.6	0.212	28.0	0.072	48.5	0.013	69.0	0.170	89.5	0.000
1.6	0.959	9.8	0.215	28.5	0.061	49.0	0.019	69.5	0.161	90.0	0.000
1.8	0.943	10.0	0.220	29.0	0.055	49.5	0.025	70.0	0.153		
2.0	0.924	10.2	0.224	29.5	0.054	50.0	0.030	70.5	0.144		
2.2	0.904	10.4	0.227	30.0	0.058	50.5	0.036	71.0	0.136		



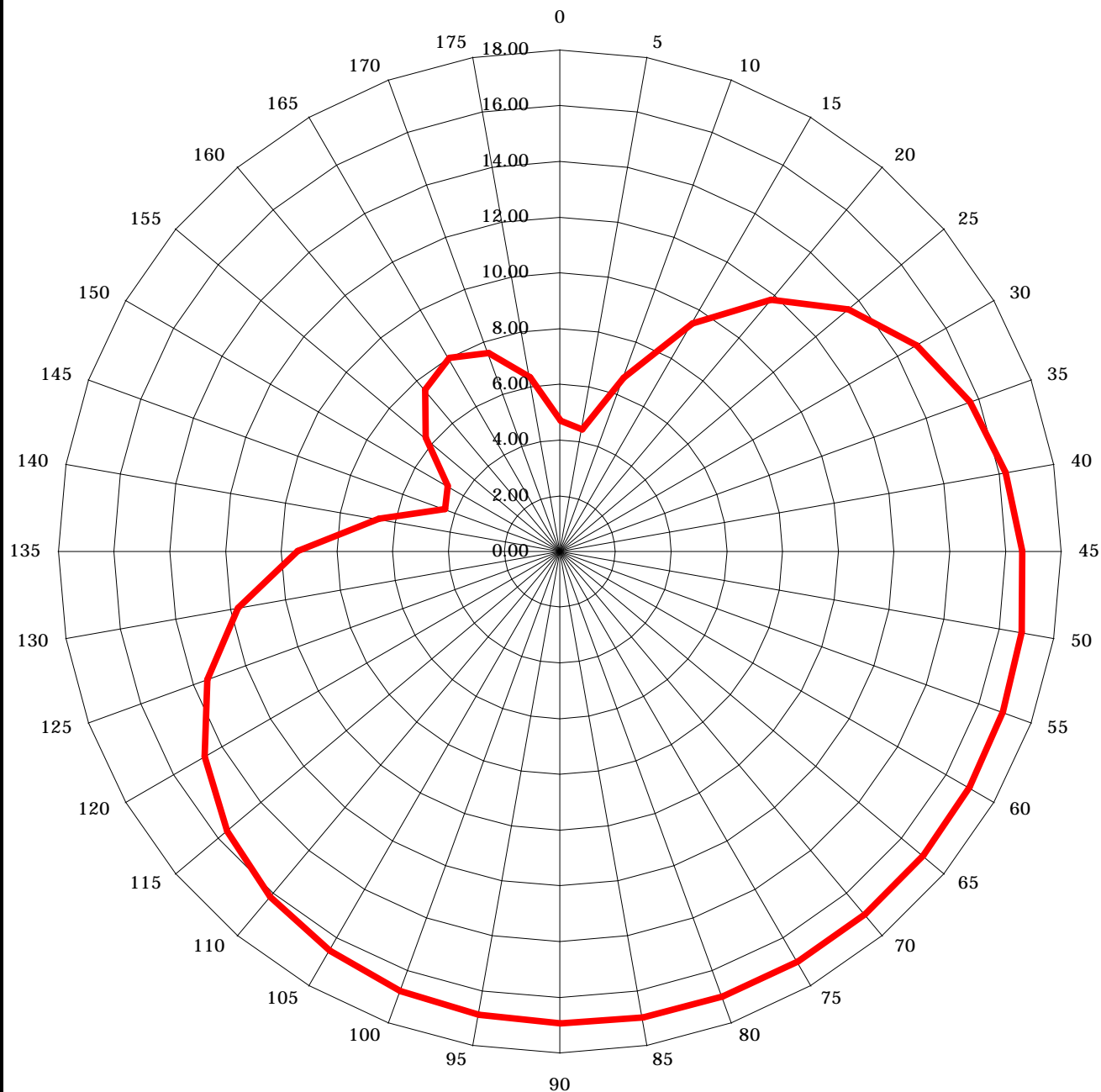
WTJX-DT CHANNEL 44

CHARLOTTE AMALIE, USVI

20030529

EXHIBIT 8

ERP - dBk



DIELECTRIC MODEL TLP-8 S180
ORIENTED WITH BEAM MAXIMA AT 150°
PEAK DIRECTIONAL GAIN: 11.58 dB
ELECTRICAL BEAM TILT: 0.50°

KESSLER & GEHMAN

TELECOMMUNICATIONS CONSULTING ENGINEERS

507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

WTJX-DT CHANNEL 44

CHARLOTTE AMALIE, USVI

20030529

EXHIBIT 9

WTJX-DT CHANNEL 44
CHARLOTTE AMALIE, USVI

TABULATION OF dBk VALUES FOR PROPOSED DIRECTIONAL ANTENNA

<u>AZIMUTH</u>	<u>ERP-dBk</u>	<u>AZIMUTH</u>	<u>ERP-dBk</u>
N000°E	4.67	N180°E	16.95
N010°E	4.41	N190°E	16.88
N020°E	6.62	N200°E	16.78
N030°E	9.43	N210°E	16.56
N040°E	11.75	N220°E	16.20
N050°E	13.49	N230°E	15.62
N060°E	14.74	N240°E	14.74
N070°E	15.62	N250°E	13.49
N080°E	16.20	N260°E	11.75
N090°E	16.56	N270°E	9.43
N100°E	16.78	N280°E	6.62
N110°E	16.88	N290°E	4.41
N120°E	16.95	N300°E	4.67
N130°E	16.97	N310°E	6.33
N140°E	16.99	N320°E	7.57
N150°E	16.99	N330°E	7.99
N160°E	16.99	N340°E	7.57
N170°E	16.97	N350°E	6.33

MINIMUM OF 4.41 dBk

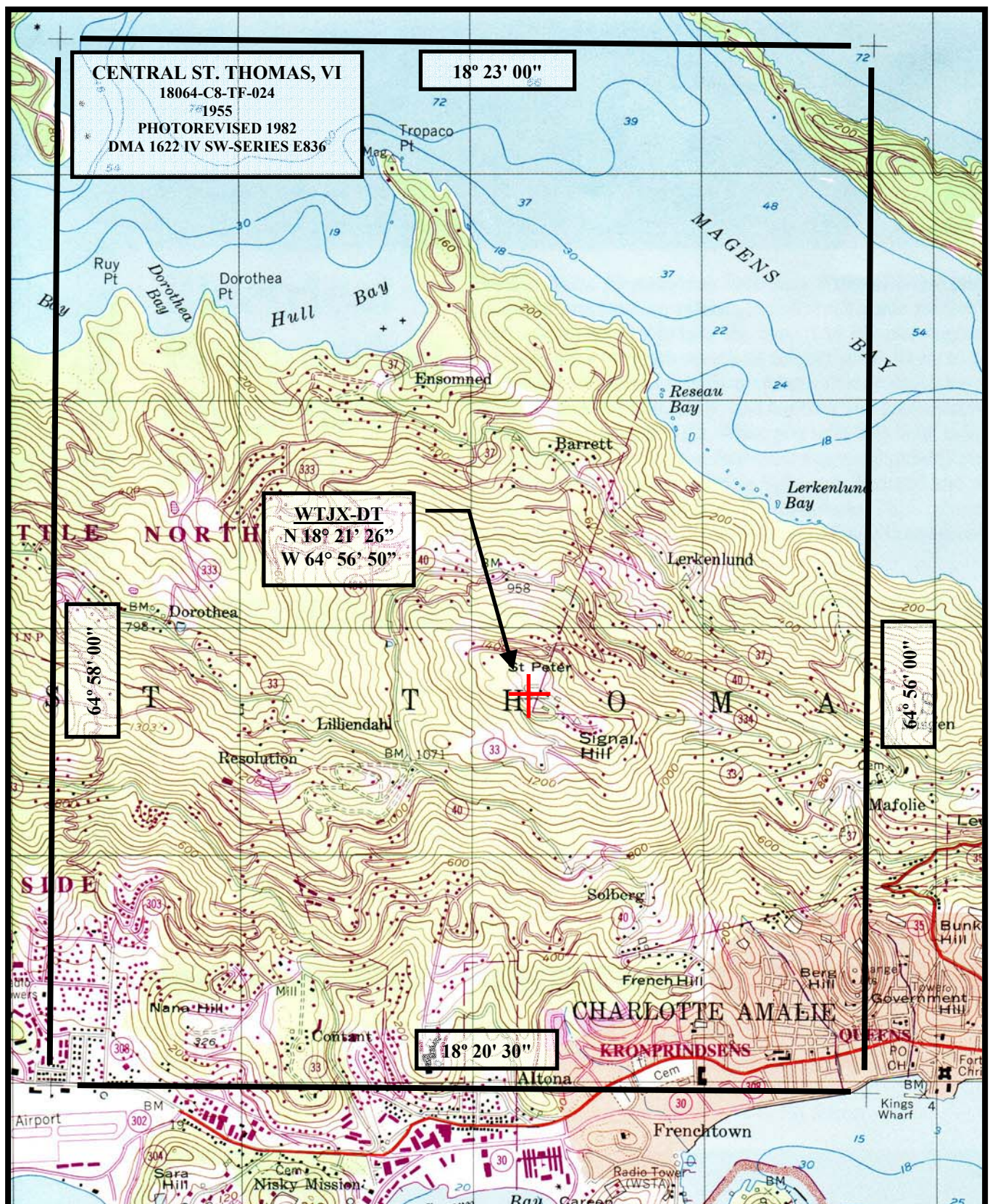
MAXIMUM OF 16.99 dBk

KESSLER & GEHMAN
 TELECOMMUNICATIONS CONSULTING ENGINEERS
 507 N.W. 60th Street, Suite C
 Gainesville, Florida 32607

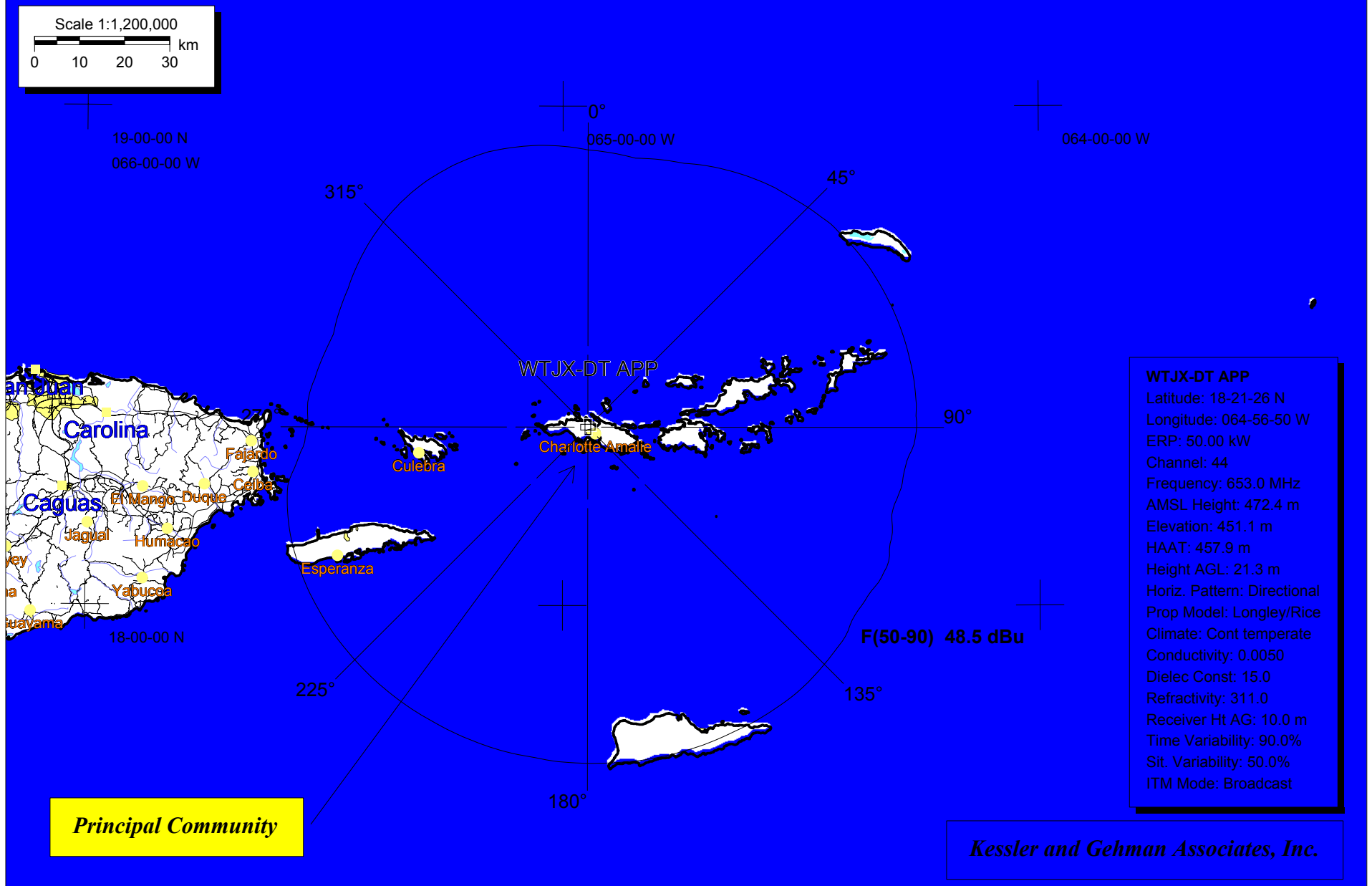
WTJX-DT CHANNEL 44
CHARLOTTE AMALIE, USVI

20030529

EXHIBIT 10



<p>KESSLER & GEHMAN TELECOMMUNICATIONS CONSULTING ENGINEERS 507 N.W. 60th Street, Suite C Gainesville, Florida 32607</p>	<p>WTJX-DT CHANNEL 44 CHARLOTTE AMALIE, USVI 20030529 EXHIBIT 11</p>
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WTJX-DT CP Distance to Contour Table:

Transmitter Information:

Call Letters: WTJX-DT CP
File Number: BPEDT20000217ABD
Latitude: 18-21-26 N
Longitude: 064-56-50 W
ERP: 50.00 kW
Channel: 44
Frequency: 653.0 MHz
AMSL Height: 472.4 m
Elevation: 451.1 m
HAAT: 457.9 m
Horiz. Antenna Pattern: Directional

Type of curve: FCC
Location Variability: 50.0 %
Time Variability: 90.0 %
Field Strength: 41.52 dBuV/m

Primary Terrain: V-Soft US 3 Arc-Second Database

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	71.7	472.0
1.0	71.6	472.0
2.0	71.5	472.0
3.0	71.4	472.0
4.0	71.3	472.0
5.0	71.2	472.0
6.0	71.1	472.0
7.0	71.0	472.0
8.0	70.9	472.0
9.0	70.8	472.0
10.0	70.7	472.0
11.0	70.9	472.0
12.0	71.1	472.0
13.0	71.2	472.0
14.0	71.4	472.0
15.0	71.6	472.0
16.0	71.8	472.0
17.0	72.0	472.0
18.0	72.2	472.0
19.0	72.3	472.0
20.0	72.5	472.0
21.0	72.9	472.0
22.0	73.2	472.0
23.0	73.5	472.0
24.0	73.9	472.0
25.0	74.2	472.0
26.0	74.5	472.0
27.0	74.8	472.0
28.0	75.1	472.0

29.0	75.4	472.0
30.0	75.7	472.0
31.0	76.0	471.6
32.0	76.3	470.9
33.0	76.6	470.0
34.0	76.8	469.1
35.0	77.1	468.5
36.0	77.4	468.1
37.0	77.6	467.3
38.0	77.9	467.1
39.0	78.0	464.2
40.0	78.2	462.9
41.0	78.4	462.3
42.0	78.6	462.1
43.0	78.9	462.6
44.0	79.1	463.9
45.0	79.4	464.8
46.0	79.6	465.6
47.0	79.9	466.4
48.0	80.1	467.1
49.0	80.4	469.1
50.0	80.7	471.5
51.0	80.8	471.1
52.0	80.9	469.2
53.0	81.0	469.0
54.0	81.2	469.5
55.0	81.4	471.8
56.0	81.6	471.8
57.0	81.7	471.8
58.0	81.9	471.7
59.0	82.0	471.7
60.0	82.1	471.6
61.0	82.2	471.4
62.0	82.3	471.1
63.0	82.4	471.1
64.0	82.5	470.8
65.0	82.6	470.4
66.0	82.7	470.2
67.0	82.7	469.8
68.0	82.8	469.7
69.0	82.9	469.3
70.0	83.0	468.9
71.0	83.0	468.8
72.0	83.1	468.6
73.0	83.1	468.3
74.0	83.2	468.0
75.0	83.2	467.4
76.0	83.2	466.6
77.0	83.2	465.7
78.0	83.3	464.7
79.0	83.3	464.1
80.0	83.3	463.4
81.0	83.3	462.8
82.0	83.3	462.0
83.0	83.3	461.0
84.0	83.3	459.4
85.0	83.3	457.8

86.0	83.3	457.0
87.0	83.1	453.3
88.0	83.0	450.0
89.0	83.2	451.8
90.0	83.1	450.5
91.0	83.0	447.1
92.0	82.9	442.9
93.0	82.7	438.6
94.0	82.4	430.9
95.0	81.9	421.7
96.0	81.7	415.8
97.0	81.5	412.9
98.0	81.4	410.2
99.0	81.4	409.2
100.0	81.4	409.2
101.0	81.4	407.8
102.0	81.2	404.3
103.0	81.1	401.3
104.0	80.8	397.2
105.0	80.8	396.0
106.0	80.9	396.9
107.0	81.2	402.1
108.0	81.7	409.1
109.0	82.0	414.7
110.0	82.2	418.3
111.0	82.3	419.9
112.0	82.5	424.5
113.0	83.0	433.5
114.0	83.3	439.1
115.0	83.4	441.1
116.0	83.4	439.6
117.0	83.4	439.4
118.0	83.3	438.2
119.0	83.1	433.1
120.0	82.9	428.6
121.0	82.9	426.5
122.0	82.9	426.3
123.0	82.8	425.1
124.0	82.8	423.8
125.0	82.8	423.9
126.0	82.9	425.5
127.0	83.2	430.6
128.0	83.5	437.5
129.0	83.8	443.0
130.0	83.9	445.7
131.0	84.0	446.5
132.0	84.1	448.4
133.0	84.2	450.7
134.0	84.4	453.5
135.0	84.5	456.0
136.0	84.6	457.9
137.0	84.8	460.6
138.0	84.9	463.2
139.0	85.0	465.8
140.0	85.2	467.7
141.0	85.3	469.6
142.0	85.3	470.9

143.0	85.4	471.6
144.0	85.4	471.8
145.0	85.4	471.8
146.0	85.4	471.6
147.0	85.4	471.8
148.0	85.4	472.0
149.0	85.4	471.9
150.0	85.4	471.9
151.0	85.4	471.9
152.0	85.4	471.1
153.0	85.3	470.1
154.0	85.3	469.7
155.0	85.3	469.7
156.0	85.3	470.0
157.0	85.3	470.5
158.0	85.4	471.0
159.0	85.4	471.6
160.0	85.4	471.9
161.0	85.4	472.0
162.0	85.4	472.0
163.0	85.4	472.0
164.0	85.3	472.0
165.0	85.3	472.0
166.0	85.3	472.0
167.0	85.3	472.0
168.0	85.3	472.0
169.0	85.3	472.0
170.0	85.3	472.0
171.0	85.2	471.9
172.0	85.2	471.0
173.0	85.1	470.1
174.0	85.0	469.7
175.0	85.0	469.6
176.0	85.0	469.5
177.0	85.0	469.4
178.0	84.9	469.4
179.0	84.9	469.6
180.0	84.9	469.8
181.0	84.9	470.0
182.0	84.9	470.2
183.0	84.9	470.4
184.0	84.9	470.6
185.0	84.8	470.8
186.0	84.8	470.4
187.0	84.7	469.4
188.0	84.6	467.9
189.0	84.5	467.0
190.0	84.5	467.2
191.0	84.6	468.2
192.0	84.6	469.4
193.0	84.6	470.7
194.0	84.6	471.6
195.0	84.6	471.9
196.0	84.6	472.0
197.0	84.6	471.9
198.0	84.5	471.8
199.0	84.5	471.7

200.0	84.5	471.6
201.0	84.4	471.6
202.0	84.4	471.6
203.0	84.4	471.6
204.0	84.3	471.6
205.0	84.3	471.5
206.0	84.3	471.0
207.0	84.2	470.3
208.0	84.2	470.4
209.0	84.1	470.5
210.0	84.1	470.9
211.0	84.1	471.4
212.0	84.1	471.8
213.0	84.0	472.0
214.0	84.0	472.0
215.0	84.0	472.0
216.0	83.9	472.0
217.0	83.9	472.0
218.0	83.8	472.0
219.0	83.8	472.0
220.0	83.7	472.0
221.0	83.7	472.0
222.0	83.6	472.0
223.0	83.6	472.0
224.0	83.5	471.9
225.0	83.4	471.8
226.0	83.3	471.0
227.0	83.2	470.5
228.0	83.2	470.9
229.0	83.1	470.9
230.0	83.1	471.1
231.0	83.0	471.2
232.0	82.9	471.3
233.0	82.8	471.3
234.0	82.7	471.4
235.0	82.6	471.4
236.0	82.5	471.3
237.0	82.4	471.3
238.0	82.3	471.3
239.0	82.2	471.3
240.0	82.1	471.2
241.0	82.0	471.2
242.0	81.8	471.1
243.0	81.7	471.1
244.0	81.6	471.1
245.0	81.4	471.1
246.0	81.3	471.0
247.0	81.1	470.9
248.0	81.0	470.8
249.0	80.8	470.3
250.0	80.6	469.8
251.0	80.4	469.4
252.0	80.2	468.8
253.0	79.9	467.9
254.0	79.7	466.7
255.0	79.4	465.1

256.0	79.1	463.5
257.0	78.8	461.5
258.0	78.5	459.8
259.0	78.2	456.2
260.0	77.5	447.6
261.0	76.8	438.1
262.0	76.1	428.4
263.0	75.3	420.9
264.0	74.7	414.6
265.0	74.0	409.0
266.0	73.2	401.8
267.0	72.6	398.2
268.0	72.4	399.9
269.0	72.0	398.7
270.0	71.7	399.1
271.0	71.8	404.3
272.0	72.0	410.7
273.0	72.2	418.3
274.0	72.3	425.5
275.0	72.4	432.4
276.0	72.4	437.3
277.0	72.3	441.7
278.0	72.1	445.0
279.0	71.9	447.9
280.0	71.6	449.4
281.0	71.5	450.6
282.0	71.3	451.2
283.0	71.2	451.4
284.0	71.0	451.9
285.0	70.8	452.0
286.0	70.7	452.3
287.0	70.5	453.2
288.0	70.4	454.2
289.0	70.3	455.6
290.0	70.1	457.2
291.0	70.3	459.2
292.0	70.5	461.4
293.0	70.7	463.3
294.0	70.8	464.2
295.0	70.9	465.4
296.0	71.1	466.2
297.0	71.2	467.2
298.0	71.3	468.4
299.0	71.5	469.5
300.0	71.6	470.4
301.0	71.8	471.1
302.0	72.1	471.7
303.0	72.3	472.0
304.0	72.5	472.0
305.0	72.7	472.0
306.0	73.0	472.0
307.0	73.2	472.0
308.0	73.4	472.0
309.0	73.6	472.0
310.0	73.8	472.0
311.0	73.9	472.0
312.0	74.1	472.0

313.0	74.3	472.0
314.0	74.4	472.0
315.0	74.6	472.0
316.0	74.7	471.9
317.0	74.9	471.3
318.0	75.0	470.4
319.0	75.1	469.3
320.0	75.2	468.9
321.0	75.3	469.5
322.0	75.4	470.7
323.0	75.5	471.5
324.0	75.5	471.8
325.0	75.6	472.0
326.0	75.7	472.0
327.0	75.7	471.6
328.0	75.7	470.5
329.0	75.7	468.7
330.0	75.7	467.5
331.0	75.7	468.3
332.0	75.7	470.4
333.0	75.7	471.9
334.0	75.7	472.0
335.0	75.6	472.0
336.0	75.6	472.0
337.0	75.5	472.0
338.0	75.4	472.0
339.0	75.4	472.0
340.0	75.3	472.0
341.0	75.2	472.0
342.0	75.0	472.0
343.0	74.9	472.0
344.0	74.7	472.0
345.0	74.6	472.0
346.0	74.4	472.0
347.0	74.3	472.0
348.0	74.1	472.0
349.0	73.9	472.0
350.0	73.8	472.0
351.0	73.6	472.0
352.0	73.4	472.0
353.0	73.2	472.0
354.0	73.0	472.0
355.0	72.7	472.0
356.0	72.5	472.0
357.0	72.3	472.0
358.0	72.1	472.0
359.0	71.9	472.0

WTJX-DT APP Distance to Contour Table:

Transmitter Information:

Call Letters: WTJX-DT APP
Latitude: 18-21-26 N
Longitude: 064-56-50 W
ERP: 50.00 kW
Channel: 44
Frequency: 653.0 MHz
AMSL Height: 472.4 m
Elevation: 451.1 m
HAAT: 457.9 m
Horiz. Antenna Pattern: Directional

Type of curve: FCC
Location Variability: 50.0 %
Time Variability: 90.0 %
Field Strength: 41.52 dBuV/m

Primary Terrain: V-Soft US 3 Arc-Second Database

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	67.0	472.4
1.0	66.9	472.4
2.0	66.9	472.4
3.0	66.9	472.4
4.0	66.8	472.4
5.0	66.8	472.4
6.0	66.8	472.4
7.0	66.7	472.4
8.0	66.7	472.4
9.0	66.6	472.4
10.0	66.6	472.4
11.0	67.0	472.4
12.0	67.3	472.4
13.0	67.7	472.4
14.0	68.0	472.4
15.0	68.3	472.4
16.0	68.7	472.4
17.0	69.0	472.4
18.0	69.3	472.4
19.0	69.6	472.4
20.0	69.9	472.4
21.0	70.4	472.4
22.0	70.9	472.4
23.0	71.3	472.4
24.0	71.8	472.4
25.0	72.2	472.4
26.0	72.6	472.4
27.0	73.0	472.4
28.0	73.4	472.4
29.0	73.8	472.4

30.0	74.2	472.4
31.0	74.5	472.0
32.0	74.9	471.3
33.0	75.2	470.4
34.0	75.6	469.5
35.0	75.9	468.9
36.0	76.2	468.5
37.0	76.5	467.7
38.0	76.8	467.5
39.0	77.0	464.6
40.0	77.3	463.3
41.0	77.5	462.7
42.0	77.8	462.5
43.0	78.1	463.0
44.0	78.4	464.3
45.0	78.7	465.2
46.0	79.0	466.0
47.0	79.3	466.8
48.0	79.5	467.5
49.0	79.9	469.5
50.0	80.2	471.9
51.0	80.4	471.5
52.0	80.5	469.6
53.0	80.6	469.4
54.0	80.9	469.9
55.0	81.1	472.2
56.0	81.3	472.2
57.0	81.5	472.2
58.0	81.7	472.1
59.0	81.9	472.1
60.0	82.0	472.0
61.0	82.2	471.8
62.0	82.3	471.5
63.0	82.4	471.5
64.0	82.5	471.2
65.0	82.6	470.8
66.0	82.8	470.6
67.0	82.9	470.2
68.0	83.0	470.1
69.0	83.1	469.7
70.0	83.2	469.3
71.0	83.3	469.2
72.0	83.4	469.0
73.0	83.4	468.7
74.0	83.5	468.4
75.0	83.6	467.8
76.0	83.6	467.0
77.0	83.7	466.1
78.0	83.7	465.1
79.0	83.8	464.5
80.0	83.8	463.8
81.0	83.8	463.2
82.0	83.9	462.4
83.0	83.9	461.4
84.0	83.8	459.8
85.0	83.8	458.2
86.0	83.8	457.4

87.0	83.7	453.7
88.0	83.6	450.4
89.0	83.7	452.2
90.0	83.7	450.9
91.0	83.6	447.5
92.0	83.4	443.3
93.0	83.3	439.0
94.0	83.0	431.3
95.0	82.5	422.1
96.0	82.3	416.2
97.0	82.2	413.3
98.0	82.0	410.6
99.0	82.0	409.6
100.0	82.1	409.6
101.0	82.0	408.2
102.0	81.8	404.7
103.0	81.7	401.7
104.0	81.4	397.6
105.0	81.4	396.4
106.0	81.4	397.3
107.0	81.8	402.5
108.0	82.2	409.5
109.0	82.5	415.1
110.0	82.7	418.7
111.0	82.8	420.3
112.0	83.0	424.9
113.0	83.4	433.9
114.0	83.7	439.5
115.0	83.8	441.5
116.0	83.8	440.0
117.0	83.8	439.8
118.0	83.7	438.6
119.0	83.5	433.5
120.0	83.3	429.0
121.0	83.2	426.9
122.0	83.2	426.7
123.0	83.1	425.5
124.0	83.1	424.2
125.0	83.1	424.3
126.0	83.2	425.9
127.0	83.4	431.0
128.0	83.7	437.9
129.0	84.0	443.4
130.0	84.1	446.1
131.0	84.2	446.9
132.0	84.3	448.8
133.0	84.4	451.1
134.0	84.5	453.9
135.0	84.6	456.4
136.0	84.7	458.3
137.0	84.9	461.0
138.0	85.0	463.6
139.0	85.1	466.2
140.0	85.2	468.1
141.0	85.3	470.0
142.0	85.4	471.3
143.0	85.4	472.0

144.0	85.5	472.2
145.0	85.5	472.2
146.0	85.4	472.0
147.0	85.5	472.2
148.0	85.5	472.4
149.0	85.5	472.3
150.0	85.5	472.3
151.0	85.5	472.3
152.0	85.4	471.5
153.0	85.4	470.5
154.0	85.3	470.1
155.0	85.3	470.1
156.0	85.4	470.4
157.0	85.4	470.9
158.0	85.4	471.4
159.0	85.4	472.0
160.0	85.5	472.3
161.0	85.5	472.4
162.0	85.5	472.4
163.0	85.5	472.4
164.0	85.5	472.4
165.0	85.5	472.4
166.0	85.5	472.4
167.0	85.4	472.4
168.0	85.4	472.4
169.0	85.4	472.4
170.0	85.4	472.4
171.0	85.4	472.3
172.0	85.4	471.4
173.0	85.3	470.5
174.0	85.3	470.1
175.0	85.3	470.0
176.0	85.3	469.9
177.0	85.3	469.8
178.0	85.3	469.8
179.0	85.3	470.0
180.0	85.3	470.2
181.0	85.3	470.4
182.0	85.3	470.6
183.0	85.3	470.8
184.0	85.3	471.0
185.0	85.3	471.2
186.0	85.3	470.8
187.0	85.2	469.8
188.0	85.1	468.3
189.0	85.0	467.4
190.0	85.0	467.6
191.0	85.1	468.6
192.0	85.1	469.8
193.0	85.2	471.1
194.0	85.2	472.0
195.0	85.2	472.3
196.0	85.2	472.4
197.0	85.2	472.3
198.0	85.2	472.2
199.0	85.1	472.1
200.0	85.1	472.0

201.0	85.1	472.0
202.0	85.1	472.0
203.0	85.0	472.0
204.0	85.0	472.0
205.0	84.9	471.9
206.0	84.9	471.4
207.0	84.8	470.7
208.0	84.8	470.8
209.0	84.8	470.9
210.0	84.7	471.3
211.0	84.7	471.8
212.0	84.7	472.2
213.0	84.6	472.4
214.0	84.6	472.4
215.0	84.5	472.4
216.0	84.5	472.4
217.0	84.4	472.4
218.0	84.4	472.4
219.0	84.3	472.4
220.0	84.2	472.4
221.0	84.2	472.4
222.0	84.1	472.4
223.0	84.0	472.4
224.0	83.9	472.3
225.0	83.8	472.2
226.0	83.7	471.4
227.0	83.6	470.9
228.0	83.5	471.3
229.0	83.4	471.3
230.0	83.3	471.5
231.0	83.2	471.6
232.0	83.1	471.7
233.0	82.9	471.7
234.0	82.8	471.8
235.0	82.7	471.8
236.0	82.6	471.7
237.0	82.4	471.7
238.0	82.3	471.7
239.0	82.1	471.7
240.0	82.0	471.6
241.0	81.8	471.6
242.0	81.7	471.5
243.0	81.5	471.5
244.0	81.3	471.5
245.0	81.1	471.5
246.0	80.9	471.4
247.0	80.7	471.3
248.0	80.5	471.2
249.0	80.3	470.7
250.0	80.1	470.2
251.0	79.9	469.8
252.0	79.6	469.2
253.0	79.3	468.3
254.0	79.0	467.1
255.0	78.7	465.5
256.0	78.4	463.9

257.0	78.0	461.9
258.0	77.7	460.2
259.0	77.3	456.6
260.0	76.6	448.0
261.0	75.9	438.5
262.0	75.0	428.8
263.0	74.2	421.3
264.0	73.5	415.0
265.0	72.8	409.4
266.0	71.9	402.2
267.0	71.3	398.6
268.0	71.0	400.3
269.0	70.6	399.1
270.0	70.2	399.5
271.0	70.2	404.7
272.0	70.3	411.1
273.0	70.4	418.7
274.0	70.4	425.9
275.0	70.4	432.8
276.0	70.3	437.7
277.0	70.1	442.1
278.0	69.8	445.4
279.0	69.4	448.3
280.0	69.0	449.8
281.0	68.8	451.0
282.0	68.5	451.6
283.0	68.2	451.8
284.0	67.9	452.3
285.0	67.6	452.4
286.0	67.3	452.7
287.0	67.0	453.6
288.0	66.7	454.6
289.0	66.4	456.0
290.0	66.1	457.6
291.0	66.2	459.6
292.0	66.3	461.8
293.0	66.4	463.7
294.0	66.5	464.6
295.0	66.6	465.8
296.0	66.6	466.6
297.0	66.7	467.6
298.0	66.8	468.8
299.0	66.9	469.9
300.0	66.9	470.8
301.0	67.2	471.5
302.0	67.5	472.1
303.0	67.8	472.4
304.0	68.0	472.4
305.0	68.3	472.4
306.0	68.5	472.4
307.0	68.8	472.4
308.0	69.0	472.4
309.0	69.2	472.4
310.0	69.4	472.4
311.0	69.6	472.4
312.0	69.8	472.4
313.0	70.0	472.4

314.0	70.2	472.4
315.0	70.4	472.4
316.0	70.6	472.3
317.0	70.8	471.7
318.0	70.9	470.8
319.0	71.0	469.7
320.0	71.2	469.3
321.0	71.3	469.9
322.0	71.4	471.1
323.0	71.5	471.9
324.0	71.6	472.2
325.0	71.6	472.4
326.0	71.7	472.4
327.0	71.8	472.0
328.0	71.8	470.9
329.0	71.8	469.1
330.0	71.8	467.9
331.0	71.8	468.7
332.0	71.8	470.8
333.0	71.8	472.3
334.0	71.7	472.4
335.0	71.6	472.4
336.0	71.6	472.4
337.0	71.5	472.4
338.0	71.5	472.4
339.0	71.4	472.4
340.0	71.3	472.4
341.0	71.1	472.4
342.0	71.0	472.4
343.0	70.8	472.4
344.0	70.6	472.4
345.0	70.4	472.4
346.0	70.2	472.4
347.0	70.0	472.4
348.0	69.8	472.4
349.0	69.6	472.4
350.0	69.4	472.4
351.0	69.2	472.4
352.0	69.0	472.4
353.0	68.8	472.4
354.0	68.5	472.4
355.0	68.3	472.4
356.0	68.0	472.4
357.0	67.8	472.4
358.0	67.5	472.4
359.0	67.2	472.4

WTJX-DT (CP vs. Application) Distance to Contour Comparison Chart

Radial	WTJX-DT CP distance to contours (km)	WTJX-DT APP distance to contours (km)	PASS OR FAIL	Difference (km)
0	71.7	67.0	PASS	-4.7
1	71.6	66.9	PASS	-4.7
2	71.5	66.9	PASS	-4.6
3	71.4	66.9	PASS	-4.5
4	71.3	66.8	PASS	-4.5
5	71.2	66.8	PASS	-4.4
6	71.1	66.8	PASS	-4.3
7	71.0	66.7	PASS	-4.3
8	70.9	66.7	PASS	-4.2
9	70.8	66.6	PASS	-4.2
10	70.7	66.6	PASS	-4.1
11	70.9	67.0	PASS	-3.9
12	71.1	67.3	PASS	-3.8
13	71.2	67.7	PASS	-3.5
14	71.4	68.0	PASS	-3.4
15	71.6	68.3	PASS	-3.3
16	71.8	68.7	PASS	-3.1
17	72.0	69.0	PASS	-3.0
18	72.2	69.3	PASS	-2.9
19	72.3	69.6	PASS	-2.7
20	72.5	69.9	PASS	-2.6
21	72.9	70.4	PASS	-2.5
22	73.2	70.9	PASS	-2.3
23	73.5	71.3	PASS	-2.2
24	73.9	71.8	PASS	-2.1
25	74.2	72.2	PASS	-2.0
26	74.5	72.6	PASS	-1.9
27	74.8	73.0	PASS	-1.8
28	75.1	73.4	PASS	-1.7
29	75.4	73.8	PASS	-1.6
30	75.7	74.2	PASS	-1.5
31	76.0	74.5	PASS	-1.5
32	76.3	74.9	PASS	-1.4
33	76.6	75.2	PASS	-1.4
34	76.8	75.6	PASS	-1.2
35	77.1	75.9	PASS	-1.2
36	77.4	76.2	PASS	-1.2
37	77.6	76.5	PASS	-1.1
38	77.9	76.8	PASS	-1.1
39	78.0	77.0	PASS	-1.0
40	78.2	77.3	PASS	-0.9

WTJX-DT (CP vs. Application) Distance to Contour Comparison Chart

41	78.4	77.5	PASS	-0.9
42	78.6	77.8	PASS	-0.8
43	78.9	78.1	PASS	-0.8
44	79.1	78.4	PASS	-0.7
45	79.4	78.7	PASS	-0.7
46	79.6	79.0	PASS	-0.6
47	79.9	79.3	PASS	-0.6
48	80.1	79.5	PASS	-0.6
49	80.4	79.9	PASS	-0.5
50	80.7	80.2	PASS	-0.5
51	80.8	80.4	PASS	-0.4
52	80.9	80.5	PASS	-0.4
53	81.0	80.6	PASS	-0.4
54	81.2	80.9	PASS	-0.3
55	81.4	81.1	PASS	-0.3
56	81.6	81.3	PASS	-0.3
57	81.7	81.5	PASS	-0.2
58	81.9	81.7	PASS	-0.2
59	82.0	81.9	PASS	-0.1
60	82.1	82.0	PASS	-0.1
61	82.2	82.2	PASS	0.0
62	82.3	82.3	PASS	0.0
63	82.4	82.4	PASS	0.0
64	82.5	82.5	PASS	0.0
65	82.6	82.6	PASS	0.0
66	82.7	82.8	FAIL	0.1
67	82.7	82.9	FAIL	0.2
68	82.8	83.0	FAIL	0.2
69	82.9	83.1	FAIL	0.2
70	83.0	83.2	FAIL	0.2
71	83.0	83.3	FAIL	0.3
72	83.1	83.4	FAIL	0.3
73	83.1	83.4	FAIL	0.3
74	83.2	83.5	FAIL	0.3
75	83.2	83.6	FAIL	0.4
76	83.2	83.6	FAIL	0.4
77	83.2	83.7	FAIL	0.5
78	83.3	83.7	FAIL	0.4
79	83.3	83.8	FAIL	0.5
80	83.3	83.8	FAIL	0.5
81	83.3	83.8	FAIL	0.5
82	83.3	83.9	FAIL	0.6
83	83.3	83.9	FAIL	0.6
84	83.3	83.8	FAIL	0.5

WTJX-DT (CP vs. Application) Distance to Contour Comparison Chart

85	83.3	83.8	FAIL	0.5
86	83.3	83.8	FAIL	0.5
87	83.1	83.7	FAIL	0.6
88	83.0	83.6	FAIL	0.6
89	83.2	83.7	FAIL	0.5
90	83.1	83.7	FAIL	0.6
91	83.0	83.6	FAIL	0.6
92	82.9	83.4	FAIL	0.5
93	82.7	83.3	FAIL	0.6
94	82.4	83.0	FAIL	0.6
95	81.9	82.5	FAIL	0.6
96	81.7	82.3	FAIL	0.6
97	81.5	82.2	FAIL	0.7
98	81.4	82.0	FAIL	0.6
99	81.4	82.0	FAIL	0.6
100	81.4	82.1	FAIL	0.7
101	81.4	82.0	FAIL	0.6
102	81.2	81.8	FAIL	0.6
103	81.1	81.7	FAIL	0.6
104	80.8	81.4	FAIL	0.6
105	80.8	81.4	FAIL	0.6
106	80.9	81.4	FAIL	0.5
107	81.2	81.8	FAIL	0.6
108	81.7	82.2	FAIL	0.5
109	82.0	82.5	FAIL	0.5
110	82.2	82.7	FAIL	0.5
111	82.3	82.8	FAIL	0.5
112	82.5	83.0	FAIL	0.5
113	83.0	83.4	FAIL	0.4
114	83.3	83.7	FAIL	0.4
115	83.4	83.8	FAIL	0.4
116	83.4	83.8	FAIL	0.4
117	83.4	83.8	FAIL	0.4
118	83.3	83.7	FAIL	0.4
119	83.1	83.5	FAIL	0.4
120	82.9	83.3	FAIL	0.4
121	82.9	83.2	FAIL	0.3
122	82.9	83.2	FAIL	0.3
123	82.8	83.1	FAIL	0.3
124	82.8	83.1	FAIL	0.3
125	82.8	83.1	FAIL	0.3
126	82.9	83.2	FAIL	0.3
127	83.2	83.4	FAIL	0.2
128	83.5	83.7	FAIL	0.2

WTJX-DT (CP vs. Application) Distance to Contour Comparison Chart

129	83.8	84.0	FAIL	0.2
130	83.9	84.1	FAIL	0.2
131	84.0	84.2	FAIL	0.2
132	84.1	84.3	FAIL	0.2
133	84.2	84.4	FAIL	0.2
134	84.4	84.5	FAIL	0.1
135	84.5	84.6	FAIL	0.1
136	84.6	84.7	FAIL	0.1
137	84.8	84.9	FAIL	0.1
138	84.9	85.0	FAIL	0.1
139	85.0	85.1	FAIL	0.1
140	85.2	85.2	PASS	0.0
141	85.3	85.3	PASS	0.0
142	85.3	85.4	FAIL	0.1
143	85.4	85.4	PASS	0.0
144	85.4	85.5	FAIL	0.1
145	85.4	85.5	FAIL	0.1
146	85.4	85.4	PASS	0.0
147	85.4	85.5	FAIL	0.1
148	85.4	85.5	FAIL	0.1
149	85.4	85.5	FAIL	0.1
150	85.4	85.5	FAIL	0.1
151	85.4	85.5	FAIL	0.1
152	85.4	85.4	PASS	0.0
153	85.3	85.4	FAIL	0.1
154	85.3	85.3	PASS	0.0
155	85.3	85.3	PASS	0.0
156	85.3	85.4	FAIL	0.1
157	85.3	85.4	FAIL	0.1
158	85.4	85.4	PASS	0.0
159	85.4	85.4	PASS	0.0
160	85.4	85.5	FAIL	0.1
161	85.4	85.5	FAIL	0.1
162	85.4	85.5	FAIL	0.1
163	85.4	85.5	FAIL	0.1
164	85.3	85.5	FAIL	0.2
165	85.3	85.5	FAIL	0.2
166	85.3	85.5	FAIL	0.2
167	85.3	85.4	FAIL	0.1
168	85.3	85.4	FAIL	0.1
169	85.3	85.4	FAIL	0.1
170	85.3	85.4	FAIL	0.1
171	85.2	85.4	FAIL	0.2
172	85.2	85.4	FAIL	0.2

WTJX-DT (CP vs. Application) Distance to Contour Comparison Chart

173	85.1	85.3	FAIL	0.2
174	85.0	85.3	FAIL	0.3
175	85.0	85.3	FAIL	0.3
176	85.0	85.3	FAIL	0.3
177	85.0	85.3	FAIL	0.3
178	84.9	85.3	FAIL	0.4
179	84.9	85.3	FAIL	0.4
180	84.9	85.3	FAIL	0.4
181	84.9	85.3	FAIL	0.4
182	84.9	85.3	FAIL	0.4
183	84.9	85.3	FAIL	0.4
184	84.9	85.3	FAIL	0.4
185	84.8	85.3	FAIL	0.5
186	84.8	85.3	FAIL	0.5
187	84.7	85.2	FAIL	0.5
188	84.6	85.1	FAIL	0.5
189	84.5	85.0	FAIL	0.5
190	84.5	85.0	FAIL	0.5
191	84.6	85.1	FAIL	0.5
192	84.6	85.1	FAIL	0.5
193	84.6	85.2	FAIL	0.6
194	84.6	85.2	FAIL	0.6
195	84.6	85.2	FAIL	0.6
196	84.6	85.2	FAIL	0.6
197	84.6	85.2	FAIL	0.6
198	84.5	85.2	FAIL	0.7
199	84.5	85.1	FAIL	0.6
200	84.5	85.1	FAIL	0.6
201	84.4	85.1	FAIL	0.7
202	84.4	85.1	FAIL	0.7
203	84.4	85.0	FAIL	0.6
204	84.3	85.0	FAIL	0.7
205	84.3	84.9	FAIL	0.6
206	84.3	84.9	FAIL	0.6
207	84.2	84.8	FAIL	0.6
208	84.2	84.8	FAIL	0.6
209	84.1	84.8	FAIL	0.7
210	84.1	84.7	FAIL	0.6
211	84.1	84.7	FAIL	0.6
212	84.1	84.7	FAIL	0.6
213	84.0	84.6	FAIL	0.6
214	84.0	84.6	FAIL	0.6
215	84.0	84.5	FAIL	0.5
216	83.9	84.5	FAIL	0.6

WTJX-DT (CP vs. Application) Distance to Contour Comparison Chart

217	83.9	84.4	FAIL	0.5
218	83.8	84.4	FAIL	0.6
219	83.8	84.3	FAIL	0.5
220	83.7	84.2	FAIL	0.5
221	83.7	84.2	FAIL	0.5
222	83.6	84.1	FAIL	0.5
223	83.6	84.0	FAIL	0.4
224	83.5	83.9	FAIL	0.4
225	83.4	83.8	FAIL	0.4
226	83.3	83.7	FAIL	0.4
227	83.2	83.6	FAIL	0.4
228	83.2	83.5	FAIL	0.3
229	83.1	83.4	FAIL	0.3
230	83.1	83.3	FAIL	0.2
231	83.0	83.2	FAIL	0.2
232	82.9	83.1	FAIL	0.2
233	82.8	82.9	FAIL	0.1
234	82.7	82.8	FAIL	0.1
235	82.6	82.7	FAIL	0.1
236	82.5	82.6	FAIL	0.1
237	82.4	82.4	PASS	0.0
238	82.3	82.3	PASS	0.0
239	82.2	82.1	PASS	-0.1
240	82.1	82.0	PASS	-0.1
241	82.0	81.8	PASS	-0.2
242	81.8	81.7	PASS	-0.1
243	81.7	81.5	PASS	-0.2
244	81.6	81.3	PASS	-0.3
245	81.4	81.1	PASS	-0.3
246	81.3	80.9	PASS	-0.4
247	81.1	80.7	PASS	-0.4
248	81.0	80.5	PASS	-0.5
249	80.8	80.3	PASS	-0.5
250	80.6	80.1	PASS	-0.5
251	80.4	79.9	PASS	-0.5
252	80.2	79.6	PASS	-0.6
253	79.9	79.3	PASS	-0.6
254	79.7	79.0	PASS	-0.7
255	79.4	78.7	PASS	-0.7
256	79.1	78.4	PASS	-0.7
257	78.8	78.0	PASS	-0.8
258	78.5	77.7	PASS	-0.8
259	78.2	77.3	PASS	-0.9
260	77.5	76.6	PASS	-0.9

WTJX-DT (CP vs. Application) Distance to Contour Comparison Chart

261	76.8	75.9	PASS	-0.9
262	76.1	75.0	PASS	-1.1
263	75.3	74.2	PASS	-1.1
264	74.7	73.5	PASS	-1.2
265	74.0	72.8	PASS	-1.2
266	73.2	71.9	PASS	-1.3
267	72.6	71.3	PASS	-1.3
268	72.4	71.0	PASS	-1.4
269	72.0	70.6	PASS	-1.4
270	71.7	70.2	PASS	-1.5
271	71.8	70.2	PASS	-1.6
272	72.0	70.3	PASS	-1.7
273	72.2	70.4	PASS	-1.8
274	72.3	70.4	PASS	-1.9
275	72.4	70.4	PASS	-2.0
276	72.4	70.3	PASS	-2.1
277	72.3	70.1	PASS	-2.2
278	72.1	69.8	PASS	-2.3
279	71.9	69.4	PASS	-2.5
280	71.6	69.0	PASS	-2.6
281	71.5	68.8	PASS	-2.7
282	71.3	68.5	PASS	-2.8
283	71.2	68.2	PASS	-3.0
284	71.0	67.9	PASS	-3.1
285	70.8	67.6	PASS	-3.2
286	70.7	67.3	PASS	-3.4
287	70.5	67.0	PASS	-3.5
288	70.4	66.7	PASS	-3.7
289	70.3	66.4	PASS	-3.9
290	70.1	66.1	PASS	-4.0
291	70.3	66.2	PASS	-4.1
292	70.5	66.3	PASS	-4.2
293	70.7	66.4	PASS	-4.3
294	70.8	66.5	PASS	-4.3
295	70.9	66.6	PASS	-4.3
296	71.1	66.6	PASS	-4.5
297	71.2	66.7	PASS	-4.5
298	71.3	66.8	PASS	-4.5
299	71.5	66.9	PASS	-4.6
300	71.6	66.9	PASS	-4.7
301	71.8	67.2	PASS	-4.6
302	72.1	67.5	PASS	-4.6
303	72.3	67.8	PASS	-4.5
304	72.5	68.0	PASS	-4.5

WTJX-DT (CP vs. Application) Distance to Contour Comparison Chart

305	72.7	68.3	PASS	-4.4
306	73.0	68.5	PASS	-4.5
307	73.2	68.8	PASS	-4.4
308	73.4	69.0	PASS	-4.4
309	73.6	69.2	PASS	-4.4
310	73.8	69.4	PASS	-4.4
311	73.9	69.6	PASS	-4.3
312	74.1	69.8	PASS	-4.3
313	74.3	70.0	PASS	-4.3
314	74.4	70.2	PASS	-4.2
315	74.6	70.4	PASS	-4.2
316	74.7	70.6	PASS	-4.1
317	74.9	70.8	PASS	-4.1
318	75.0	70.9	PASS	-4.1
319	75.1	71.0	PASS	-4.1
320	75.2	71.2	PASS	-4.0
321	75.3	71.3	PASS	-4.0
322	75.4	71.4	PASS	-4.0
323	75.5	71.5	PASS	-4.0
324	75.5	71.6	PASS	-3.9
325	75.6	71.6	PASS	-4.0
326	75.7	71.7	PASS	-4.0
327	75.7	71.8	PASS	-3.9
328	75.7	71.8	PASS	-3.9
329	75.7	71.8	PASS	-3.9
330	75.7	71.8	PASS	-3.9
331	75.7	71.8	PASS	-3.9
332	75.7	71.8	PASS	-3.9
333	75.7	71.8	PASS	-3.9
334	75.7	71.7	PASS	-4.0
335	75.6	71.6	PASS	-4.0
336	75.6	71.6	PASS	-4.0
337	75.5	71.5	PASS	-4.0
338	75.4	71.5	PASS	-3.9
339	75.4	71.4	PASS	-4.0
340	75.3	71.3	PASS	-4.0
341	75.2	71.1	PASS	-4.1
342	75.0	71.0	PASS	-4.0
343	74.9	70.8	PASS	-4.1
344	74.7	70.6	PASS	-4.1
345	74.6	70.4	PASS	-4.2
346	74.4	70.2	PASS	-4.2
347	74.3	70.0	PASS	-4.3
348	74.1	69.8	PASS	-4.3

WTJX-DT (CP vs. Application) Distance to Contour Comparison Chart

349	73.9	69.6	PASS	-4.3
350	73.8	69.4	PASS	-4.4
351	73.6	69.2	PASS	-4.4
352	73.4	69.0	PASS	-4.4
353	73.2	68.8	PASS	-4.4
354	73.0	68.5	PASS	-4.5
355	72.7	68.3	PASS	-4.4
356	72.5	68.0	PASS	-4.5
357	72.3	67.8	PASS	-4.5
358	72.1	67.5	PASS	-4.6
359	71.9	67.2	PASS	-4.7

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 05-29-2003 Time: 14:27:11

Record Selected for Analysis

WTJX-DT CUR -PROPOSED Charlotte Amalie VI US
Channel 44 ERP 50.0 kW HAAT 00457 m RCAMSL 00472 m
Latitude 018-21-26 Longitude 0064-56-50
Status APP Zone Border
Dir Antenna Make CDB Model 000000000000001 Beam tilt N Ref Azimuth 0.0
Last update 00000000 Cutoff date 00000000 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)	41.0 dBu F(50,90) (km)
0.0	2.928	504.0	68.7
45.0	18.453	504.0	81.2
90.0	45.315	504.0	87.6
135.0	49.900	504.0	88.3
180.0	49.501	504.0	88.3
225.0	39.029	504.0	86.5
270.0	8.778	504.0	76.0
315.0	4.977	504.0	72.2

Evaluation toward Class A Stations

Station inside contour of Class A station
W29CB 29 ST. THOMAS VI BLTTL 19971105II

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WTJX-DT 44 Charlotte Amalie VI CUR PROPOSED

and station

SHORT TO: WMTJ 40 FAJARDO PR BLET 19970826KH
018-18-36 0065-47-41
Req. separation => 24.1 <= 96.6 Actual separation 89.7 Short 6.9(65.6) km

SHORT TO: WVEO 44 AGUADILLA PR BLCT 19950606KE
018-19- 6 0067-10-42
Req. separation 244.6 Actual separation 235.9 Short 8.7 km

SHORT TO: WTJX-DT 44 CHARLOTTE AMALIE VI BPEDT 20000217ABD
018-21-26 0064-56-50
Req. separation 223.7 Actual separation 0.0 Short 223.7 km

SHORT TO: WTJX-DT 44 CHARLOTTE AMALIE VI DTVPLN DTVPL1284
18-21-26 64-56-50
Req. separation 223.7 Actual separation 0.0 Short 223.7 km

SHORT TO: WIDP-DT 45 GUAYAMA PR BPCDT 19991029AHA
018-16-44 0065-51-10
Req. separation => 24.0 <= 110.0 Actual separation 96.1 Short 13.9(72.1) km

SHORT TO: WIDP-DT 45 GUAYAMA PR DTVPLN DTVPL1313
18-16-48 65-51- 8
Req. separation => 24.0 <= 110.0 Actual separation 96.1 Short 13.9(72.1) km

SHORT TO: WIDP 46 GUAYAMA PR BLCT 19970509KG
018-16-44 0065-51-10
Req. separation => 24.1 <= 96.6 Actual separation 96.1 Short 0.5(72.0) km

SHORT TO: WZDE 52 CAROLINA PR BMPCT 19971230LC
018-16-44 0065-51-12
Req. separation => 24.1 <= 96.6 Actual separation 96.2 Short 0.4(72.1) km

SHORT TO: WZDE 52 CAROLINA PR BLCT 19970228KF
018-16-44 0065-51-12
Req. separation => 24.1 <= 96.6 Actual separation 96.2 Short 0.4(72.1) km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite 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 Call	City/State	ARN	
44	WTJX-DT	Charlotte Amalie VI	CUR	PROPOSED

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
30	WRWR-TV	SAN JUAN PR	121.3	LIC	BLCT	-19841129LB
36	WDWL	BAYAMON PR	123.1	LIC	BLCT	-19910322KF
40	WMTJ	FAJARDO PR	89.6	LIC	BLET	-19970826KH
43	WSUR-DT	PONCE PR	173.3	PLN	DTVPLN	-DTVP1241
43	961119KI	CHARLOTTE AMALIE VI	0.2	APP	BPCT	-19961119KI
43	960718KQ	CHARLOTTE AMALIE VI	0.0	CP	BPCT	-19960718KQ
44	WVEO	AGUADILLA PR	235.4	LIC	BLCT	-19950606KE
45	WIDP-DT	GUAYAMA PR	95.9	CP	BPCDT	-19991029AHA
45	WIDP-DT	GUAYAMA PR	95.9	PLN	DTVPLN	-DTVP1313
46	WIDP	GUAYAMA PR	95.9	LIC	BLCT	-19970509KG
52	WZDE	CAROLINA PR	96.0	CP MOD	BMPCT	-19971230LC
52	WZDE	CAROLINA PR	96.0	LIC	BLCT	-19970228KF

Analysis of Interference to Affected Station 1

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
30	WRWRTV	SAN JUAN PR	DTVPLN	-NPLN1390

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
22	WNJXTV	MAYAGUEZ PR	95.5	PLN	DTVPLN	-NPLN1155
23	WNJX-DT	MAYAGUEZ PR	95.5	PLN	DTVPLN	-DTVP0540
27	WAPA-DT	SAN JUAN PR	18.7	PLN	DTVPLN	-DTVP0687
28	WKAQ-DT	SAN JUAN PR	18.3	PLN	DTVPLN	-DTVP0724
29	WORA-DT	MAYAGUEZ PR	95.6	PLN	DTVPLN	-DTVP0763
31	WRWR-DT	SAN JUAN PR	0.0	PLN	DTVPLN	-DTVP0839
32	WELU	AGUADILLA PR	115.4	PLN	DTVPLN	-NPLN1436
32	WSJU-DT	SAN JUAN PR	31.8	PLN	DTVPLN	-DTVP0879
33	WPRV-DT	FAJARDO PR	31.8	PLN	DTVPLN	-DTVP0916
34	WELU-DT	AGUADILLA PR	115.4	PLN	DTVPLN	-DTVP0954
34	WRUA	FAJARDO PR	31.8	PLN	DTVPLN	-NPLN1482
38	WJWNTV	SAN SEBASTIAN PR	114.6	PLN	DTVPLN	-NPLN1550
44	WVEO	AGUADILLA PR	114.6	PLN	DTVPLN	-NPLN1670
44	WTJX-DT	CHARLOTTE AMALIE VI	121.3	PLN	DTVPLN	-DTVP1284

45 WIDP-DT GUAYAMA PR 25.5 PLN DTVPLN -DTVP1313

Results for: 30N PR SAN JUAN DTVPLN NPLN1390 PLN
 POPULATION AREA (sq km)
 within Noise Limited Contour 3265206 26906.5
 not affected by terrain losses 3265206 26906.5
 lost to NTSC IX 0 0.0
 lost to additional IX by ATV 0 0.0
 lost to all IX 0 0.0

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	WRWR-TV	SAN JUAN PR	BLCT	-19841129LB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
22	WNJX-TV	MAYAGUEZ PR	95.0	CP MOD	BPCT	-20030306ABR
23	WNJX-DT	MAYAGUEZ PR	95.0	CP	BPCDT	-19991019ABA
23	WNJX-DT	MAYAGUEZ PR	95.5	PLN	DTVPLN	-DTVP0540
27	WAPA-DT	SAN JUAN PR	18.7	PLN	DTVPLN	-DTVP0687
27	WAPA-DT	SAN JUAN PR	18.7	CP	BPCDT	-19991027ABH
28	WKAQ-DT	SAN JUAN PR	18.3	LIC	BLCDT	-20020201AAG
28	WKAQ-DT	SAN JUAN PR	18.3	PLN	DTVPLN	-DTVP0724
29	WORA-DT	MAYAGUEZ PR	95.6	CP	BPCDT	-19991101ABW
29	WORA-DT	MAYAGUEZ PR	95.6	PLN	DTVPLN	-DTVP0763
31	WRWR-DT	SAN JUAN PR	0.0	CP	BPCDT	-19991122AAZ
31	WRWR-DT	SAN JUAN PR	0.0	PLN	DTVPLN	-DTVP0839
32	WELU	AGUADILLA PR	115.4	LIC	BLET	-19870112KG
32	WELU	AGUADILLA PR	115.4	APP	BPET	-19960628KR
32	WELU	AGUADILLA PR	115.4	APP	BPET	-20020502AAO
32	WTCV-DT	SAN JUAN PR	31.8	APP	BMPCDT	-20030422AAU
32	WSJU-DT	SAN JUAN PR	31.8	PLN	DTVPLN	-DTVP0879
32	WAVB-DT	SAN JUAN PR	31.8	CP	BPCDT	-20000501AFC
33	WPRV-DT	FAJARDO PR	31.8	CP	BPCDT	-19991101AGY
33	WPRV-DT	FAJARDO PR	31.8	PLN	DTVPLN	-DTVP0916
34	WELU-DT	AGUADILLA PR	95.5	CP MOD	BMPEDT	-20030106ABS
34	WELU-DT	AGUADILLA PR	115.4	PLN	DTVPLN	-DTVP0954
34	WRUA	FAJARDO PR	31.8	LIC	BLCT	-19970216KE
38	WJWN-TV	SAN SEBASTIAN PR	114.6	LIC	BLCT	-19860612KF
44	WVEO	AGUADILLA PR	114.6	LIC	BLCT	-19950606KE
44	WTJX-DT	CHARLOTTE AMALIE VI	121.3	PLN	DTVPLN	-DTVP1284
45	WIDP-DT	GUAYAMA PR	25.4	CP	BPCDT	-19991029AHA
45	WIDP-DT	GUAYAMA PR	25.5	PLN	DTVPLN	-DTVP1313
44	WTJX-DT	Charlotte Amalie VI	121.3	APP	CUR	-PROPOSED

Proposal causes no interference

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Analysis of Interference to Affected Station 2

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
36	WDWL	BAYAMON PR	DTVPLN	-NPLN1527

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	WKAQ-DT	SAN JUAN PR	19.1	PLN	DTVPLN	-DTVP0724
29	WORA-DT	MAYAGUEZ PR	93.8	PLN	DTVPLN	-DTVP0763
32	WSJU-DT	SAN JUAN PR	33.5	PLN	DTVPLN	-DTVP0879
33	WPRV-DT	FAJARDO PR	33.5	PLN	DTVPLN	-DTVP0916
34	WELU-DT	AGUADILLA PR	113.5	PLN	DTVPLN	-DTVP0954
34	WRUA	FAJARDO PR	33.5	PLN	DTVPLN	-NPLN1482
35	WIPM-DT	MAYAGUEZ PR	93.2	PLN	DTVPLN	-DTVP0990
38	WJWNTV	SAN SEBASTIAN PR	112.8	PLN	DTVPLN	-NPLN1550
39	WJWN-DT	SAN SEBASTIAN PR	112.8	PLN	DTVPLN	-DTVP1103
40	WMTJ	FAJARDO PR	33.5	PLN	DTVPLN	-NPLN1594
43	WSUR-DT	PONCE PR	50.7	PLN	DTVPLN	-DTVP1241
43	NEW	CHARLOTTE AMALIE VI	123.1	PLN	DTVPLN	-NPLN1651
44	WVEO	AGUADILLA PR	112.8	PLN	DTVPLN	-NPLN1670
44	WTJX-DT	CHARLOTTE AMALIE VI	123.1	PLN	DTVPLN	-DTVP1284
50	WQHA	AGUADA PR	113.0	PLN	DTVPLN	-NPLN1782
50	WBNB-DT	CHARLOTTE AMALIE VI	123.3	PLN	DTVPLN	-DTVP1464
51	WDZE-DT	CAROLINA PR	27.1	PLN	DTVPLN	-DTVP1491

Results for: 36N PR BAYAMON DTVPLN NPLN1527 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	2612060	8041.7
not affected by terrain losses	2612060	8041.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to all IX	0	0.0

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
36	WDWL	BAYAMON PR	BLCT	-19910322KF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	WKAQ-DT	SAN JUAN PR	19.1	LIC	BLC DT	-20020201AAG
28	WKAQ-DT	SAN JUAN PR	19.1	PLN	DTVPLN	-DTVP0724
29	WORA-DT	MAYAGUEZ PR	93.8	CP	BPCDT	-19991101ABW
29	WORA-DT	MAYAGUEZ PR	93.8	PLN	DTVPLN	-DTVP0763
32	WTCV-DT	SAN JUAN PR	33.5	APP	BMPCDT	-20030422AAU
32	WSJU-DT	SAN JUAN PR	33.5	PLN	DTVPLN	-DTVP0879
32	WAVB-DT	SAN JUAN PR	33.5	CP	BPCDT	-20000501AFC
33	WPRV-DT	FAJARDO PR	33.5	CP	BPCDT	-19991101AGY
33	WPRV-DT	FAJARDO PR	33.5	PLN	DTVPLN	-DTVP0916
34	WELU-DT	AGUADILLA PR	93.7	CP MOD	BMPCDT	-20030106ABS
34	WELU-DT	AGUADILLA PR	113.5	PLN	DTVPLN	-DTVP0954
34	WRUA	FAJARDO PR	33.5	LIC	BLCT	-19970216KE
35	WIPM-DT	MAYAGUEZ PR	93.2	PLN	DTVPLN	-DTVP0990
38	WJWN-TV	SAN SEBASTIAN PR	112.8	LIC	BLCT	-19860612KF
39	WJWN-DT	SAN SEBASTIAN PR	112.8	CP MOD	BMPCDT	-20020423AAB
39	WJWN-DT	SAN SEBASTIAN PR	112.8	PLN	DTVPLN	-DTVP1103
40	WMTJ	FAJARDO PR	33.5	LIC	BLET	-19970826KH
43	WSUR-DT	PONCE PR	50.7	PLN	DTVPLN	-DTVP1241
43	960718KQ	CHARLOTTE AMALIE VI	123.1	CP	BPCT	-19960718KQ
44	WVEO	AGUADILLA PR	112.8	LIC	BLCT	-19950606KE
44	WTJX-DT	CHARLOTTE AMALIE VI	123.1	PLN	DTVPLN	-DTVP1284

50	WQHA	AGUADA PR	113.0	LIC	BLCT	-19930715KE
50	WBNB-DT	CHARLOTTE AMALIE VI	123.3	PLN	DTVPLN	-DTVP1464
51	WDZE	CAROLINA PR	27.1	CP	BPCDT	-19991029ACM
51	WDZE-DT	CAROLINA PR	27.1	PLN	DTVPLN	-DTVP1491
44	WTJX-DT	Charlotte Amalie VI	123.1	APP	CUR	-PROPOSED

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
40	WMTJ	FAJARDO PR	DTVPLN	-NPLN1594

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
32	WSJU-DT	SAN JUAN PR	0.0	PLN	DTVPLN	-DTVP0879
33	WPRV-DT	FAJARDO PR	0.0	PLN	DTVPLN	-DTVP0916
39	WJWN-DT	SAN SEBASTIAN PR	146.0	PLN	DTVPLN	-DTVP1103
41	WIRS-DT	YAUCO PR	84.0	PLN	DTVPLN	-DTVP1172
42	WIRS	YAUCO PR	84.0	PLN	DTVPLN	-NPLN1626
43	WSUR-DT	PONCE PR	84.0	PLN	DTVPLN	-DTVP1241
43	NEW	CHARLOTTE AMALIE VI	89.6	PLN	DTVPLN	-NPLN1651
44	WTJX-DT	CHARLOTTE AMALIE VI	89.6	PLN	DTVPLN	-DTVP1284
47	WVOZ-DT	PONCE PR	103.8	PLN	DTVPLN	-DTVP1371
48	WVOZTV	PONCE PR	103.8	PLN	DTVPLN	-NPLN1739
48	WVXF-DT	CHARLOTTE AMALIE VI	89.7	PLN	DTVPLN	-DTVP1403
54	WCCVTV	ARECIBO PR	102.2	PLN	DTVPLN	-NPLN1845
55	WIPR-DT	SAN JUAN PR	34.9	PLN	DTVPLN	-DTVP1575

Results for: 40N PR FAJARDO	DTVPLN	NPLN1594	PLN
	POPULATION	AREA (sq km)	
within Noise Limited Contour	3052317	24116.4	
not affected by terrain losses	3003865	24020.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	0	0.0	
lost to all IX	0	0.0	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	WMTJ	FAJARDO PR	BLET	-19970826KH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
32	WTCV-DT	SAN JUAN PR	0.0	APP	BMPCDT	-20030422AAU
32	WSJU-DT	SAN JUAN PR	0.0	PLN	DTVPLN	-DTVP0879
32	WAVB-DT	SAN JUAN PR	0.0	CP	BPCDT	-20000501AFC
33	WPRV-DT	FAJARDO PR	0.0	CP	BPCDT	-19991101AGY
33	WPRV-DT	FAJARDO PR	0.0	PLN	DTVPLN	-DTVP0916
39	WJWN-DT	SAN SEBASTIAN PR	146.0	CP MOD	BMPCDT	-20020423AAB

39	WJWN-DT	SAN SEBASTIAN PR	146.0	PLN	DTVPLN	-DTVP1103
39	WCVI-TV	CHRISTIANSTED VI	128.9	APP	BPCT	-20030508AAQ
39	WCVI-TV	CHRISTIANSTED VI	128.9	GRANT	BPRM	-20021129AAP
41	WIRS	YAUCO PR	84.0	CP	BPCDT	-19991101AJK
41	WIRS-DT	YAUCO PR	84.0	PLN	DTVPLN	-DTVP1172
42	WIRS	YAUCO PR	84.0	LIC	BLCT	-19920207KF
43	WSUR-DT	PONCE PR	84.0	PLN	DTVPLN	-DTVP1241
43	960718KQ	CHARLOTTE AMALIE VI	89.6	CP	BPCT	-19960718KQ
44	WTJX-DT	CHARLOTTE AMALIE VI	89.6	PLN	DTVPLN	-DTVP1284
47	WVOZ-DT	PONCE PR	103.8	CP	BPCDT	-20000501AFT
47	WVOZ-DT	PONCE PR	103.8	PLN	DTVPLN	-DTVP1371
48	WVOZ-TV	PONCE PR	103.8	LIC	BLCT	-19860808KK
48	WVXF-DT	CHARLOTTE AMALIE VI	89.6	CP	BPCDT	-19991222ABD
48	WVXF-DT	CHARLOTTE AMALIE VI	89.7	PLN	DTVPLN	-DTVP1403
54	WCCV-TV	ARECIBO PR	102.2	LIC	BLCT	-19950719KH
55	WIPR-DT	SAN JUAN PR	34.9	APP	BPEDT	-20000426ABF
55	WIPR-DT	SAN JUAN PR	34.9	PLN	DTVPLN	-DTVP1575
44	WTJX-DT	Charlotte Amalie VI	89.6	APP	CUR	-PROPOSED

Proposal causes no interference

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Analysis of Interference to Affected Station 4

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
43	WSUR-DT	PONCE PR	DTVPLN	-DTVP1241

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
42	WIRS	YAUCO PR	0.0	PLN	DTVPLN	-NPLN1626
43	NEW	CHARLOTTE AMALIE VI	173.3	PLN	DTVPLN	-NPLN1651
44	WVEO	AGUADILLA PR	65.6	PLN	DTVPLN	-NPLN1670
44	WTJX-DT	CHARLOTTE AMALIE VI	173.3	PLN	DTVPLN	-DTVP1284

Results for: 43A PR PONCE DTVPLN DTVP1241 PLN
 HAAT 857.0 m, ATV ERP 380.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3808610	63461.1
not affected by terrain losses	3808610	63461.1
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

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
09	WSURTV	PONCE PR	DTVPLN	-NPLN0621

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WSVI	CHRISTIANSTED VI	193.5	PLN	DTVPLN	-NPLN0572
10	WBNBTB	CHARLOTTE AMALIE VI	173.4	PLN	DTVPLN	-NPLN0690

Results for:	9N PR PONCE	DTVPLN	NPLN0621	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour		3808478	58408.9	
not affected by terrain losses		3808478	58408.9	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		0	0.0	
lost to all IX		0	0.0	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	WSUR-DT	PONCE PR	DTVPLN	-DTVP1241

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
42	WIRS	YAUCO PR	0.0	LIC	BLCT	-19920207KF
43	960718KQ	CHARLOTTE AMALIE VI	173.3	CP	BPCT	-19960718KQ
44	WVEO	AGUADILLA PR	65.6	LIC	BLCT	-19950606KE
44	WTJX-DT	CHARLOTTE AMALIE VI	173.3	PLN	DTVPLN	-DTVP1284
44	WTJX-DT	Charlotte Amalie VI	173.3	APP	CUR	-PROPOSED

Proposal causes no interference

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Analysis of Interference to Affected Station 5

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
43	NEW	CHARLOTTE AMALIE VI	DTVPLN	-NPLN1651

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
36	WDWL	BAYAMON PR	123.1	PLN	DTVPLN	-NPLN1527
40	WMTJ	FAJARDO PR	89.6	PLN	DTVPLN	-NPLN1594
42	WIRS	YAUCO PR	173.3	PLN	DTVPLN	-NPLN1626
43	WSUR-DT	PONCE PR	173.3	PLN	DTVPLN	-DTVP1241
44	WTJX-DT	CHARLOTTE AMALIE VI	0.0	PLN	DTVPLN	-DTVP1284
45	WIDP-DT	GUAYAMA PR	95.9	PLN	DTVPLN	-DTVP1313
46	WIDP	GUAYAMA PR	95.9	PLN	DTVPLN	-NPLN1708
50	WBNB-DT	CHARLOTTE AMALIE VI	0.2	PLN	DTVPLN	-DTVP1464
51	WDZE-DT	CAROLINA PR	96.0	PLN	DTVPLN	-DTVP1491
57	WUJA-DT	CAGUAS PR	123.1	PLN	DTVPLN	-DTVP1617
58	WUJA	CAGUAS PR	123.1	PLN	DTVPLN	-NPLN1897

Results for:	43N VI CHARLOTTE AMALIE	DTVPLN	NPLN1651	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour		61992	13864.6	
not affected by terrain losses		61728	13588.7	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		0	0.0	
lost to all IX		0	0.0	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	961119KI	CHARLOTTE AMALIE VI	BPCT	-19961119KI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
36	WDWL	BAYAMON PR	123.2	LIC	BLCT	-19910322KF
40	WMTJ	FAJARDO PR	89.7	LIC	BLET	-19970826KH
42	WIRS	YAUCO PR	173.4	LIC	BLCT	-19920207KF
43	WSUR-DT	PONCE PR	173.4	PLN	DTVPLN	-DTVP1241
44	WTJX-DT	CHARLOTTE AMALIE VI	0.2	PLN	DTVPLN	-DTVP1284
45	WIDP-DT	GUAYAMA PR	96.1	CP	BPCDT	-19991029AHA
45	WIDP-DT	GUAYAMA PR	96.0	PLN	DTVPLN	-DTVP1313
46	WIDP	GUAYAMA PR	96.1	LIC	BLCT	-19970509KG
50	WBNB-DT	CHARLOTTE AMALIE VI	0.1	PLN	DTVPLN	-DTVP1464
51	WDZE	CAROLINA PR	96.1	CP	BPCDT	-19991029ACM
51	WDZE-DT	CAROLINA PR	96.1	PLN	DTVPLN	-DTVP1491
57	WUJA	CAGUAS PR	123.2	CP	BPEDT	-20000731AEN
57	WUJA-DT	CAGUAS PR	123.2	PLN	DTVPLN	-DTVP1617
58	WUJA	CAGUAS PR	123.2	LIC	BLET	-19851107KE
44	WTJX-DT	Charlotte Amalie VI	0.2	APP	CUR	-PROPOSED

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	960718KQ	CHARLOTTE AMALIE VI	BPCT	-19960718KQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
36	WDWL	BAYAMON PR	123.1	LIC	BLCT	-19910322KF
40	WMTJ	FAJARDO PR	89.6	LIC	BLET	-19970826KH
42	WIRS	YAUCO PR	173.3	LIC	BLCT	-19920207KF
43	WSUR-DT	PONCE PR	173.3	PLN	DTVPLN	-DTVP1241
44	WTJX-DT	CHARLOTTE AMALIE VI	0.0	PLN	DTVPLN	-DTVP1284
45	WIDP-DT	GUAYAMA PR	95.9	CP	BPCDT	-19991029AHA
45	WIDP-DT	GUAYAMA PR	95.9	PLN	DTVPLN	-DTVP1313
46	WIDP	GUAYAMA PR	95.9	LIC	BLCT	-19970509KG
50	WBNB-DT	CHARLOTTE AMALIE VI	0.2	PLN	DTVPLN	-DTVP1464
51	WDZE	CAROLINA PR	96.0	CP	BPCDT	-19991029ACM
51	WDZE-DT	CAROLINA PR	96.0	PLN	DTVPLN	-DTVP1491
57	WUJA	CAGUAS PR	123.1	CP	BPEDT	-20000731AEN
57	WUJA-DT	CAGUAS PR	123.1	PLN	DTVPLN	-DTVP1617
58	WUJA	CAGUAS PR	123.1	LIC	BLET	-19851107KE
44	WTJX-DT	Charlotte Amalie VI	0.0	APP	CUR	-PROPOSED

Proposal causes no interference

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Analysis of Interference to Affected Station 7

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
44	WVEO	AGUADILLA PR	DTVPLN	-NPLN1670

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
36	WDWL	BAYAMON PR	112.8	PLN	DTVPLN	-NPLN1527
41	WIRS-DT	YAUCO PR	65.6	PLN	DTVPLN	-DTVP1172
42	WIRS	YAUCO PR	65.6	PLN	DTVPLN	-NPLN1626
43	WSUR-DT	PONCE PR	65.6	PLN	DTVPLN	-DTVP1241
44	WTJX-DT	CHARLOTTE AMALIE VI	235.4	PLN	DTVPLN	-DTVP1284
45	WIDP-DT	GUAYAMA PR	140.0	PLN	DTVPLN	-DTVP1313
46	WIDP	GUAYAMA PR	140.0	PLN	DTVPLN	-NPLN1708
47	WVOZ-DT	PONCE PR	52.6	PLN	DTVPLN	-DTVP1371
48	WVOZTV	PONCE PR	52.6	PLN	DTVPLN	-NPLN1739
51	WDZE-DT	CAROLINA PR	139.9	PLN	DTVPLN	-DTVP1491
52	WDZE	CAROLINA PR	139.9	PLN	DTVPLN	-NPLN1814
58	WUJA	CAGUAS PR	112.8	PLN	DTVPLN	-NPLN1897
59	WDWL-DT	BAYAMON PR	112.8	PLN	DTVPLN	-DTVP1659

Results for: 44N PR AGUADILLA DTVPLN NPLN1670 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	1100109	13127.7
not affected by terrain losses	1084354	13075.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	763	4.0
lost to all IX	763	4.0

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	WVEO	AGUADILLA PR	BLCT	-19950606KE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
36	WDWL	BAYAMON PR	112.8	LIC	BLCT	-19910322KF
41	WIRS	YAUCO PR	65.6	CP	BPCDT	-19991101AJK
41	WIRS-DT	YAUCO PR	65.6	PLN	DTVPLN	-DTVP1172
42	WIRS	YAUCO PR	65.6	LIC	BLCT	-19920207KF
43	WSUR-DT	PONCE PR	65.6	PLN	DTVPLN	-DTVP1241
44	WTJX-DT	CHARLOTTE AMALIE VI	235.4	PLN	DTVPLN	-DTVP1284
45	WIDP-DT	GUAYAMA PR	140.0	CP	BPCDT	-19991029AHA
45	WIDP-DT	GUAYAMA PR	140.0	PLN	DTVPLN	-DTVP1313
46	WIDP	GUAYAMA PR	140.0	LIC	BLCT	-19970509KG
47	WVOZ-DT	PONCE PR	52.6	CP	BPCDT	-20000501AFT
47	WVOZ-DT	PONCE PR	52.6	PLN	DTVPLN	-DTVP1371
48	WVOZ-TV	PONCE PR	52.6	LIC	BLCT	-19860808KK
51	WDZE	CAROLINA PR	139.9	CP	BPCDT	-19991029ACM
51	WDZE-DT	CAROLINA PR	139.9	PLN	DTVPLN	-DTVP1491
52	WZDE	CAROLINA PR	139.9	CP MOD	BMPCT	-19971230LC
58	WUJA	CAGUAS PR	112.8	LIC	BLET	-19851107KE
59	WDWL-DT	BAYAMON PR	112.8	CP	BPCDT	-20000419ABS
59	WDWL-DT	BAYAMON PR	112.8	PLN	DTVPLN	-DTVP1659
44	WTJX-DT	Charlotte Amalie VI	235.4	APP	CUR	-PROPOSED

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.
45	WIDP-DT	GUAYAMA PR	DTVPLN	-DTVP1313

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
44	WVEO	AGUADILLA PR	140.0	PLN	DTVPLN	-NPLN1670
44	WTJX-DT	CHARLOTTE AMALIE VI	95.9	PLN	DTVPLN	-DTVP1284
46	WIDP	GUAYAMA PR	0.0	PLN	DTVPLN	-NPLN1708

Results for: 45A PR GUAYAMA DTVPLN DTVP1313 PLN

HAAT 642.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3171225	35907.2
not affected by terrain losses	3155055	35355.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	80.0
lost to ATV IX only	0	80.0
lost to all IX	0	80.0

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
46	WIDP	GUAYAMA PR	DTVPLN	-NPLN1708

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WJWNTV	SAN SEBASTIAN PR	140.0	PLN	DTVPLN	-NPLN1550
39	WJWN-DT	SAN SEBASTIAN PR	140.0	PLN	DTVPLN	-DTVP1103
43	WSUR-DT	PONCE PR	77.5	PLN	DTVPLN	-DTVP1241
43	NEW	CHARLOTTE AMALIE VI	95.9	PLN	DTVPLN	-NPLN1651
44	WVEO	AGUADILLA PR	140.0	PLN	DTVPLN	-NPLN1670
44	WTJX-DT	CHARLOTTE AMALIE VI	95.9	PLN	DTVPLN	-DTVP1284
45	WIDP-DT	GUAYAMA PR	0.0	PLN	DTVPLN	-DTVP1313
47	WVOZ-DT	PONCE PR	97.1	PLN	DTVPLN	-DTVP1371
48	WVOZTV	PONCE PR	97.1	PLN	DTVPLN	-NPLN1739
48	WVXF-DT	CHARLOTTE AMALIE VI	96.0	PLN	DTVPLN	-DTVP1403
49	WVSN-DT	HUMACAO PR	0.2	PLN	DTVPLN	-DTVP1430
50	WQHA	AGUADA PR	140.2	PLN	DTVPLN	-NPLN1782
50	WBNB-DT	CHARLOTTE AMALIE VI	96.1	PLN	DTVPLN	-DTVP1464
53	WCCV-DT	ARECIBO PR	95.9	PLN	DTVPLN	-DTVP1535
54	WCCVTV	ARECIBO PR	95.9	PLN	DTVPLN	-NPLN1845
60	WMEI	ARECIBO PR	110.5	PLN	DTVPLN	-NPLN1916
61	WMEI-DT	ARECIBO PR	110.5	PLN	DTVPLN	-DTVP1668

Results for: 46N PR GUAYAMA DTVPLN NPLN1708 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	3171225	35907.2

not affected by terrain losses	3155053	35267.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to all IX	0	0.0

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
45	WIDP-DT	GUAYAMA PR	BPCDT	-19991029AHA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
44	WVEO	AGUADILLA PR	140.0	LIC	BLCT	-19950606KE
44	WTJX-DT	CHARLOTTE AMALIE VI	95.9	PLN	DTVPLN	-DTVP1284
46	WIDP	GUAYAMA PR	0.0	LIC	BLCT	-19970509KG
44	WTJX-DT	Charlotte Amalie VI	95.9	APP	CUR	-PROPOSED

Station is "Checklist Like" no further analysis required

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
45	WIDP-DT	GUAYAMA PR	DTVPLN	-DTVP1313

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
44	WVEO	AGUADILLA PR	140.0	LIC	BLCT	-19950606KE
44	WTJX-DT	CHARLOTTE AMALIE VI	95.9	PLN	DTVPLN	-DTVP1284
46	WIDP	GUAYAMA PR	0.1	LIC	BLCT	-19970509KG
44	WTJX-DT	Charlotte Amalie VI	95.9	APP	CUR	-PROPOSED

Proposal causes no interference

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Analysis of Interference to Affected Station 10

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
46	WIDP	GUAYAMA PR	DTVPLN	-NPLN1708

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WJWNTV	SAN SEBASTIAN PR	140.0	PLN	DTVPLN	-NPLN1550
39	WJWN-DT	SAN SEBASTIAN PR	140.0	PLN	DTVPLN	-DTVP1103
43	WSUR-DT	PONCE PR	77.5	PLN	DTVPLN	-DTVP1241
43	NEW	CHARLOTTE AMALIE VI	95.9	PLN	DTVPLN	-NPLN1651
44	WVEO	AGUADILLA PR	140.0	PLN	DTVPLN	-NPLN1670
44	WTJX-DT	CHARLOTTE AMALIE VI	95.9	PLN	DTVPLN	-DTVP1284

45	WIDP-DT	GUAYAMA PR	0.0	PLN	DTVPLN	-DTVP1313
47	WVOZ-DT	PONCE PR	97.1	PLN	DTVPLN	-DTVP1371
48	WVOZTV	PONCE PR	97.1	PLN	DTVPLN	-NPLN1739
48	WVXF-DT	CHARLOTTE AMALIE VI	96.0	PLN	DTVPLN	-DTVP1403
49	WVSN-DT	HUMACAO PR	0.2	PLN	DTVPLN	-DTVP1430
50	WQHA	AGUADA PR	140.2	PLN	DTVPLN	-NPLN1782
50	WBNB-DT	CHARLOTTE AMALIE VI	96.1	PLN	DTVPLN	-DTVP1464
53	WCCV-DT	ARECIBO PR	95.9	PLN	DTVPLN	-DTVP1535
54	WCCVTV	ARECIBO PR	95.9	PLN	DTVPLN	-NPLN1845
60	WMEI	ARECIBO PR	110.5	PLN	DTVPLN	-NPLN1916
61	WMEI-DT	ARECIBO PR	110.5	PLN	DTVPLN	-DTVP1668

Results for: 46N PR GUAYAMA		DTVPLN	NPLN1708	PLN
	POPULATION	AREA (sq km)		
within Noise Limited Contour	3171225	35907.2		
not affected by terrain losses	3155053	35267.1		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	0	0.0		
lost to all IX	0	0.0		

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	WIDP	GUAYAMA PR	BLCT	-19970509KG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	WJWN-TV	SAN SEBASTIAN PR	140.0	LIC	BLCT	-19860612KF
39	WJWN-DT	SAN SEBASTIAN PR	140.0	CP MOD	BMPCDT	-20020423AAB
39	WJWN-DT	SAN SEBASTIAN PR	140.0	PLN	DTVPLN	-DTVP1103
39	WCVI-TV	CHRISTIANSTED VI	132.7	APP	BPCT	-20030508AAQ
39	WCVI-TV	CHRISTIANSTED VI	132.7	GRANT	BPRM	-20021129AAP
43	WSUR-DT	PONCE PR	77.4	PLN	DTVPLN	-DTVP1241
43	960718KQ	CHARLOTTE AMALIE VI	95.9	CP	BPCT	-19960718KQ
44	WVEO	AGUADILLA PR	140.0	LIC	BLCT	-19950606KE
44	WTJX-DT	CHARLOTTE AMALIE VI	95.9	PLN	DTVPLN	-DTVP1284
45	WIDP-DT	GUAYAMA PR	0.0	CP	BPCDT	-19991029AHA
45	WIDP-DT	GUAYAMA PR	0.1	PLN	DTVPLN	-DTVP1313
47	WVOZ-DT	PONCE PR	97.0	CP	BPCDT	-20000501AFT
47	WVOZ-DT	PONCE PR	97.0	PLN	DTVPLN	-DTVP1371
48	WVOZ-TV	PONCE PR	97.0	LIC	BLCT	-19860808KK
48	WVXF-DT	CHARLOTTE AMALIE VI	95.9	CP	BPCDT	-19991222ABD
48	WVXF-DT	CHARLOTTE AMALIE VI	96.0	PLN	DTVPLN	-DTVP1403
49	WVSN-DT	HUMACAO PR	0.1	CP	BPCDT	-19991101AJM
49	WVSN-DT	HUMACAO PR	0.1	PLN	DTVPLN	-DTVP1430
50	WQHA	AGUADA PR	140.2	LIC	BLCT	-19930715KE
50	WBNB-DT	CHARLOTTE AMALIE VI	96.1	PLN	DTVPLN	-DTVP1464
53	WCCV-DT	ARECIBO PR	95.9	PLN	DTVPLN	-DTVP1535
53	WCCV-DT	ARECIBO PR	95.9	CP	BPCDT	-19991101AGR
54	WCCV-TV	ARECIBO PR	95.9	LIC	BLCT	-19950719KH
60	WMEI	ARECIBO PR	77.2	CP MOD	BMPCT	-19960415KE
61	WMEI-DT	ARECIBO PR	110.4	PLN	DTVPLN	-DTVP1668
44	WTJX-DT	Charlotte Amalie VI	95.9	APP	CUR	-PROPOSED

Proposal causes no interference

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Analysis of Interference to Affected Station 11

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
52	WDZE	CAROLINA PR	DTVPLN	-NPLN1814

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
44	WVEO	AGUADILLA PR	139.9	PLN	DTVPLN	-NPLN1670
44	WTJX-DT	CHARLOTTE AMALIE VI	96.0	PLN	DTVPLN	-DTVP1284
45	WIDP-DT	GUAYAMA PR	0.2	PLN	DTVPLN	-DTVP1313
48	WVXF-DT	CHARLOTTE AMALIE VI	96.1	PLN	DTVPLN	-DTVP1403
49	WVSN-DT	HUMACAO PR	0.0	PLN	DTVPLN	-DTVP1430
50	WQHA	AGUADA PR	140.1	PLN	DTVPLN	-NPLN1782
50	WBNB-DT	CHARLOTTE AMALIE VI	96.2	PLN	DTVPLN	-DTVP1464
51	WDZE-DT	CAROLINA PR	0.0	PLN	DTVPLN	-DTVP1491
53	WCCV-DT	ARECIBO PR	95.8	PLN	DTVPLN	-DTVP1535
54	WCCVTV	ARECIBO PR	95.8	PLN	DTVPLN	-NPLN1845
55	WIPR-DT	SAN JUAN PR	28.0	PLN	DTVPLN	-DTVP1575
56	WLII-DT	CAGUAS PR	27.4	PLN	DTVPLN	-DTVP1593
59	WDWL-DT	BAYAMON PR	27.1	PLN	DTVPLN	-DTVP1659
60	WMEI	ARECIBO PR	110.4	PLN	DTVPLN	-NPLN1916
66	WSTE-DT	PONCE PR	75.3	PLN	DTVPLN	-DTVP1680

Results for: 52N PR CAROLINA		DTVPLN	NPLN1814	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour		2965391	28061.8	
not affected by terrain losses		2943046	27253.6	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		0	0.0	
lost to all IX		0	0.0	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
52	WZDE	CAROLINA PR	BMPCT	-19971230LC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
44	WVEO	AGUADILLA PR	139.9	LIC	BLCT	-19950606KE
44	WTJX-DT	CHARLOTTE AMALIE VI	96.0	PLN	DTVPLN	-DTVP1284
45	WIDP-DT	GUAYAMA PR	0.1	CP	BPCDT	-19991029AHA
45	WIDP-DT	GUAYAMA PR	0.2	PLN	DTVPLN	-DTVP1313
48	WVXF-DT	CHARLOTTE AMALIE VI	96.0	CP	BPCDT	-19991222ABD
48	WVXF-DT	CHARLOTTE AMALIE VI	96.1	PLN	DTVPLN	-DTVP1403
49	WVSN-DT	HUMACAO PR	0.0	CP	BPCDT	-19991101AJM
49	WVSN-DT	HUMACAO PR	0.0	PLN	DTVPLN	-DTVP1430
50	WQHA	AGUADA PR	140.1	LIC	BLCT	-19930715KE
50	WBNB-DT	CHARLOTTE AMALIE VI	96.2	PLN	DTVPLN	-DTVP1464
51	WDZE	CAROLINA PR	0.0	CP	BPCDT	-19991029ACM
51	WDZE-DT	CAROLINA PR	0.0	PLN	DTVPLN	-DTVP1491
53	WCCV-DT	ARECIBO PR	95.8	PLN	DTVPLN	-DTVP1535
53	WCCV-DT	ARECIBO PR	95.8	CP	BPCDT	-19991101AGR
54	WCCV-TV	ARECIBO PR	95.8	LIC	BLCT	-19950719KH

55	WIPR-DT	SAN JUAN PR	28.0	APP	BPEDT	-20000426ABF
55	WIPR-DT	SAN JUAN PR	28.0	PLN	DTVPLN	-DTVP1575
56	WLII-DT	CAGUAS PR	27.4	PLN	DTVPLN	-DTVP1593
59	WDWL-DT	BAYAMON PR	27.1	CP	BPCDT	-20000419ABS
59	WDWL-DT	BAYAMON PR	27.1	PLN	DTVPLN	-DTVP1659
60	WMEI	ARECIBO PR	77.2	CP MOD	BMPCT	-19960415KE
66	WSTE-DT	PONCE PR	75.3	PLN	DTVPLN	-DTVP1680
66	WSTE-DT	POUNCE PR	75.3	APP	BPCDT	-19991101AJI
44	WTJX-DT	Charlotte Amalie VI	96.0	APP	CUR	-PROPOSED

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
52	WZDE	CAROLINA PR	BLCT	-19970228KF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
44	WVEO	AGUADILLA PR	139.9	LIC	BLCT	-19950606KE
44	WTJX-DT	CHARLOTTE AMALIE VI	96.0	PLN	DTVPLN	-DTVP1284
45	WIDP-DT	GUAYAMA PR	0.1	CP	BPCDT	-19991029AHA
45	WIDP-DT	GUAYAMA PR	0.2	PLN	DTVPLN	-DTVP1313
48	WVXF-DT	CHARLOTTE AMALIE VI	96.0	CP	BPCDT	-19991222ABD
48	WVXF-DT	CHARLOTTE AMALIE VI	96.1	PLN	DTVPLN	-DTVP1403
49	WVSN-DT	HUMACAO PR	0.0	CP	BPCDT	-19991101AJM
49	WVSN-DT	HUMACAO PR	0.0	PLN	DTVPLN	-DTVP1430
50	WQHA	AGUADA PR	140.1	LIC	BLCT	-19930715KE
50	WBNB-DT	CHARLOTTE AMALIE VI	96.2	PLN	DTVPLN	-DTVP1464
51	WDZE	CAROLINA PR	0.0	CP	BPCDT	-19991029ACM
51	WDZE-DT	CAROLINA PR	0.0	PLN	DTVPLN	-DTVP1491
53	WCCV-DT	ARECIBO PR	95.8	PLN	DTVPLN	-DTVP1535
53	WCCV-DT	ARECIBO PR	95.8	CP	BPCDT	-19991101AGR
54	WCCV-TV	ARECIBO PR	95.8	LIC	BLCT	-19950719KH
55	WIPR-DT	SAN JUAN PR	28.0	APP	BPEDT	-20000426ABF
55	WIPR-DT	SAN JUAN PR	28.0	PLN	DTVPLN	-DTVP1575
56	WLII-DT	CAGUAS PR	27.4	PLN	DTVPLN	-DTVP1593
59	WDWL-DT	BAYAMON PR	27.1	CP	BPCDT	-20000419ABS
59	WDWL-DT	BAYAMON PR	27.1	PLN	DTVPLN	-DTVP1659
60	WMEI	ARECIBO PR	77.2	CP MOD	BMPCT	-19960415KE
66	WSTE-DT	PONCE PR	75.3	PLN	DTVPLN	-DTVP1680
66	WSTE-DT	POUNCE PR	75.3	APP	BPCDT	-19991101AJI
44	WTJX-DT	Charlotte Amalie VI	96.0	APP	CUR	-PROPOSED

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	WTJX-DT	Charlotte Amalie VI	CUR	-PROPOSED

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	WSUR-DT	PONCE PR	173.3	PLN	DTVPLN	-DTVP1241
43	960718KQ	CHARLOTTE AMALIE VI	0.0	CP	BPCT	-19960718KQ
44	WVEO	AGUADILLA PR	235.4	LIC	BLCT	-19950606KE
45	WIDP-DT	GUAYAMA PR	95.9	CP	BPCDT	-19991029AHA
45	WIDP-DT	GUAYAMA PR	95.9	PLN	DTVPLN	-DTVP1313

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 13
Before Analysis

Results for: 44A VI Charlotte Amalie CUR PROPOSED APP
HAAT 457.0 m, ATV ERP 50.0 kW

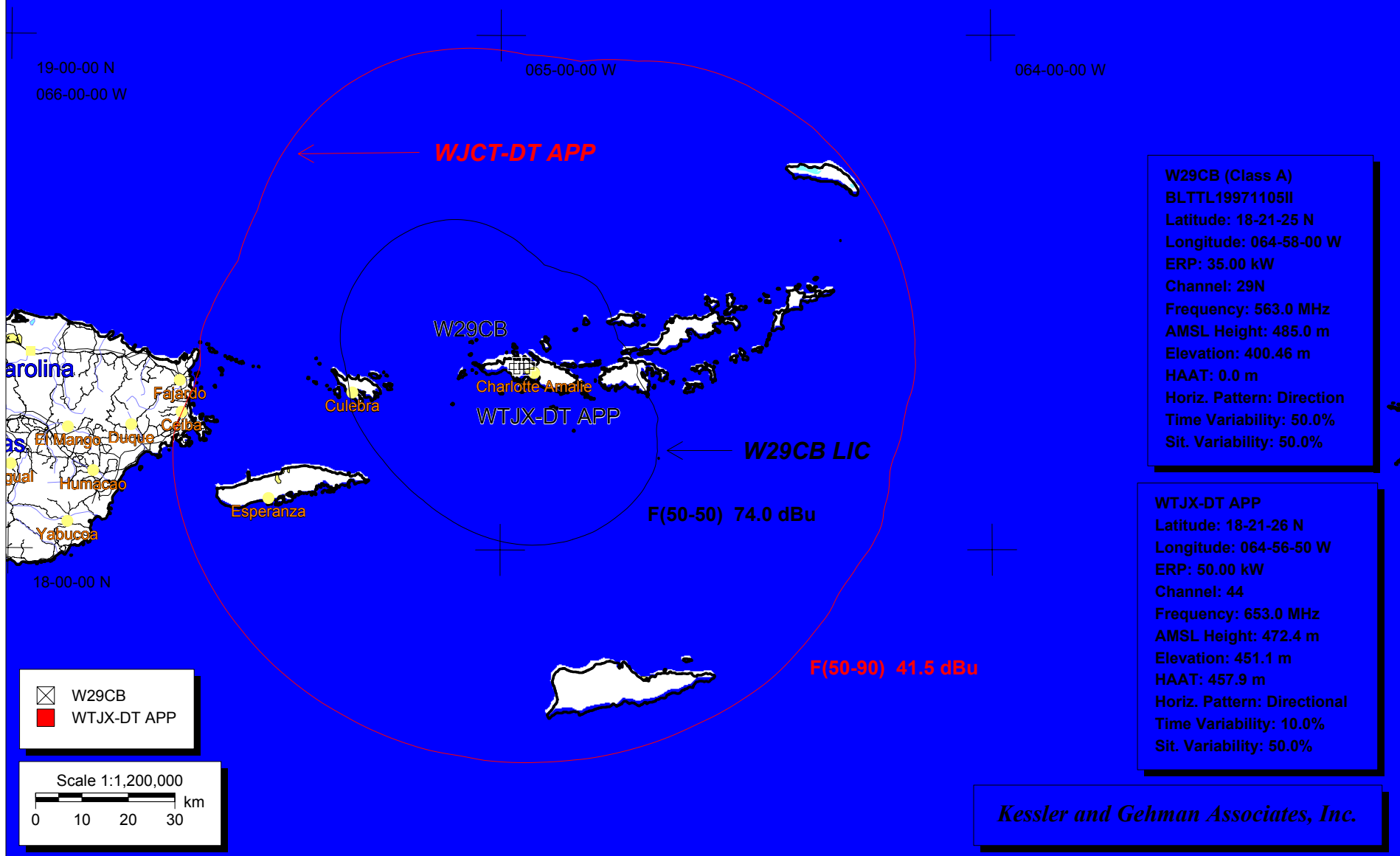
	POPULATION	AREA (sq km)
within Noise Limited Contour	166878	20404.6
not affected by terrain losses	166878	20288.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Potential Interferring Stations Included in above Scenario 1

*Percent Service lost without proposal:	0.0	to CUR	PROPOSED
*Percent Service lost with proposal:	0.0	to CUR	PROPOSED

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED



Proposed WTJX-DT Application would cause no interference to the W29CB Class A station

Exhibit 18

CLASS A INTERFERENCE STUDY

W29CB (29N) St. Thomas, VI - BLTTL19971105II

TV Incoming Interference Study

Signal Resolution: 2 km

Consider NTSC Taboo: Yes

of radials computed for contours: 36

Contours calculated using 8 radial HAAT.

LR Profile Spacing Increment: 1.0 km

Interference considered within the reference station's 74 dBu FCC contour.

Using NTSC LPTV/Translators D/U rules.

Threshold for reception: 74.0 dBuV/m

Study Date: 5/30/2003

TV Database Date: 05-30-03

Population Database: 1990 US Census

Stations considered which do not cause interference:

WTJX-DT APP (44)

Call Letters City State Dist Bear
WTJX-DT APP (44) Charlotte Amalie VI 2.1 89.1

Totals for W29CB (29N)

Calculation Area Population:	0	(3499.5 sq. km)
Not Affected by Terrain Loss:	0	(3483.6 sq. km)
Total NTSC Interference:	0	(0.0 sq. km)
DTV Only Interference:	0	(0.0 sq. km)
Total DTV Interference:	0	(0.0 sq. km)
Interfered Population:	0	(0.0 sq. km)
Interference Free:	0	(3483.6 sq. km)

Percent Interference: 0.00

Terrain Blocked Population: 0 (16.0 sq. km)