

WTJX-DT CHANNEL 44 MINOR
CHANGE IN LICENSE APPLICATION
CHARLOTTE AMALIE, U.S. VI
(VIRGIN ISLANDS PUBLIC TELEVISION SYSTEM)

KESSLER AND GEHMAN ASSOCIATES, INC.
TELECOMMUNICATIONS CONSULTING ENGINEERS

20090922

Prepared by William T. Godfrey, Jr.

KG&A

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Kessler and Gehman Associates, Inc.

Telecommunications Consulting Engineers

ENGINEERING TECHNICAL STATEMENT PREPARED BY WILLIAM THOMAS GODFREY, JR. OF THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC., TELECOMMUNICATIONS CONSULTING ENGINEERS IN CONNECTION WITH A MINOR CHANGE IN LICENSE APPLICATION TO CHANGE TOWERS AND INCREASE ANTENNA HEIGHT FOR THE VIRGIN ISLANDS PUBLIC TELEVISION SYSTEM (VIPTS) DIGITAL TELEVISION BROADCAST FACILITY, WTJX-DT CHANNEL *44, CHARLOTTE AMALIE, U.S. VIRGIN ISLANDS (BLEDT-20040823ABI).

The firm Kessler and Gehman Associates, Inc. has been retained by the Virgin Islands Public Television System (VIPTS), Charlotte Amalie, U.S. Virgin Islands to prepare engineering studies and the engineering portion of a minor change in license application requesting to change from the existing tower to a new self-supporting tower (ASRN 1244135), separated by only three seconds, and to increase antenna height.

Discussion

VIPTS is licensed to operate the WTJX-DT digital television broadcast facility (BLEDT-20040823ABI) on Channel *44 with an ERP of 50 kW at an antenna height radiation center of 21.0 meters Above Ground Level (AGL) using an Dielectric model TLP-8 S180 directional antenna. This minor change in license application requests authorization to make the following changes: 1) relocate from the existing tower (Latitude N 18° 21' 26", Longitude W 64° 56' 50") to a new self-supporting tower (Latitude N 18° 21' 28", Longitude W 64° 56' 53"); and increase the antenna height radiation center AGL from 21.0 m to 74.1 m. This will result in a two second change in latitude, a three second change on longitude and a 53.1 meter increase in antenna height.

Exhibits

Exhibits 1 and 2 represent WTJX's administration data, antenna and antenna structure specifications.



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

Exhibits 4 and 5 display the antenna azimuth pattern (percentage) and antenna azimuth pattern relative field values respectively.

Exhibits 6 (11 deg) and 7 (90 deg) display the elevation pattern and Exhibit 8 displays the elevation pattern tabulation.

Exhibit 9 depicts the location of the WTJX-DT Channel *44 transmitter site on a 7.5-Minute (Series) Topographic map.

Exhibit 10 is a principal community contour map demonstrating that the WTJX-DT Channel *44 facility's F(50,90) 48.0 dBuV/m Principal Community contour will completely encompass the principal community of Charlotte Amalie, U.S. VI.

Exhibit 11 depicts the WTJX-DT Channel *44 licensed and proposed F(50,90) 41.5 dBuV/m protected noise limited contours.

Exhibit 12 is a Longley-Rice interference study computed using a Sun Microsystems SPARC computer work station loaded with the FCC's DTV analysis software. The exhibit demonstrates compliance with the 0.5% new interference standard.

Interference Studies

The proposed facility satisfies the interference protection provisions of §73.616 of the FCC Rules. Exhibit 12 is a Longley-Rice interference study that was computed using a Sun Microsystems SPARC computer work station loaded with the FCC's DTV analysis software. The interference percentages are exactly the same as the FCC calculations since the studies were



performed using the same type computers and the same interference analysis software. Exhibit 12 demonstrates that the proposed WTJX-DT Channel *44 facility is not predicted to cause an additional 0.5% interference to any full-service DTV station. Exhibit 12 also demonstrates that the proposed WTJX-DT Channel *44 facility would not cause impermissible interference to any Class A Low Power TV (LPTV) or Class A TV translator facility and satisfies the requirements for FCC Monitoring Stations, West Virginia Quiet Zones, Table Mountain, and Canadian/Mexican border coordination. Accordingly, the proposed WTJX-DT Channel *44 facility satisfies the interference protection provisions of 47 C.F.R. §73.616.

Environmental Impact

Operation of the proposed WTJX-DT Channel *44 facility will have no significant environmental impact as defined in §1.1307 of the FCC Rules. The digital transmitter, 3-inch transmission line and antenna system shall produce an ERP of 50 kW (horizontal polarization). It was determined that the maximum lobe of radiation from the base of the tower will occur at approximately 115.6 feet from the base of the tower (263.7-foot radial distance from the antenna center). At approximately 115.6 feet from the base of the tower, the depression angle of the main lobe is approximately 64° below the horizontal. At that point, the relative field is 0.229 and the power density six feet above the ground is approximately 0.0136 mW/cm². This equates to only 0.62% of the Maximum Permissible Exposure (MPE) limits for Occupational/Controlled Exposure and only 3.12% of the MPE limits for General Population/Uncontrolled Exposure authorized by the American National Standards Institute (ANSI). Since operation of the proposed WTJX-DT Channel *44 facility will not exceed 5.0% of the MPE limit for Occupational/Controlled Exposure or General Population/Uncontrolled Exposure at any point on the ground, the facility is not considered a “significant contributor” to the RF exposure environment pursuant to OET Bulletin 65, Edition 97-01. Therefore, contributions of exposure from other sources were not accounted for in this analysis. It is safe to conclude that the emissions would be insignificant and well within the maximum allowable requirements.



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If other antennas are placed on the tower in the future, the licensee 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. It is also understood that additional antennas on the support structure could increase the overall RF exposure levels and it is the responsibility of each licensee to ensure that the total RF exposure resulting from the operation of all antennas on the support structure do not exceed the maximum permissible exposure level at any point on the ground.

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.



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A handwritten signature in blue ink that reads 'William T. Godfrey, Jr.' The signature is written over a horizontal line.

WILLIAM T. GODFREY, JR.

Telecommunications Technical Consultant

22 September, 2009

WTJX-DT
Charlotte Amalie, U.S. Virgin Islands

ENGINEERING SPECIFICATIONS

A. Transmitter Site:

Geographic coordinates (NAD27):

North Latitude	18° 21' 28"
West Longitude	64° 56' 53"

Transmitter Site Location: **Atop Signal Hill**
1.3 miles WNW 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)	445.7 M
Overall Height of Structure Above Ground	78.0 M
(including all appurtenances)	
Overall Height of Structure Above Mean Sea Level	523.7 M
(including all appurtenances)	
Height of Site Above Average Terrain	431.1 M
Antenna Height Radiation Center (R/C) Above Ground	74.1 M
Antenna Height R/C Above Mean Sea Level	519.8 M
Average of All Non-Odd Radials	14.6 M
Antenna Height R/C Above Average Terrain	505.2 M

E. System Parameters – Horizontal Polarization:

Transmitter Power Required	4.6 kW
Maximum Power Input to Antenna	3.5 kW
Total System Loss	1.24 dB
Transmission Line Efficiency	75.1%
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

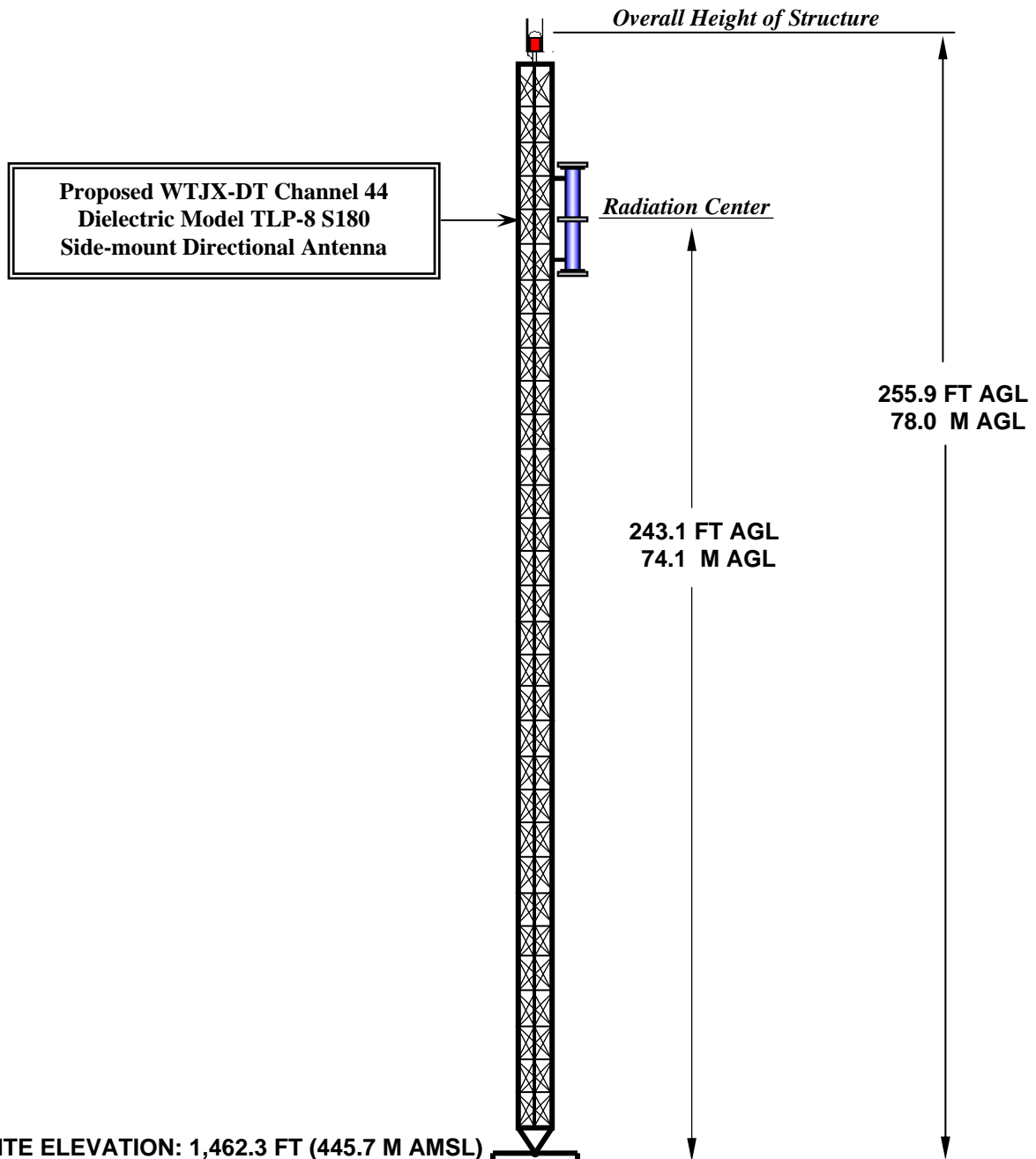
Charlotte Amalie, U.S. Virgin Islands

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):** *3.5 kW*
- G. **Null Fill:** *9.7%*
- H. **Transmission Line:** *3" 50-ohm Heliax*
- I. **Transmission Line Loss:** *0.237 dB/100-feet*
- J. **Total Transmission Line:** *525 feet*
- K. **Transmission Line Attenuation:** *1.24 dB*

WTJX-DT CHANNEL 44 TOWER ELEVATION VIEW



OVERALL HEIGHT AGL: 78.0 M
OVERALL HEIGHT AMSL: 523.7 M
RADIATION CENTER AGL: 74.1 M
RADIATION CENTER AMSL: 519.8 M
RADIATION CENTER HAAT: 505.2 M
AVG OF ALL NON-ODD RADIALS: 14.6 M
SITE HAAT: 431.1 M

COORDINATES (NAD 27):
N. LATITUDE 18° 21' 28"
W. LONGITUDE 64° 56' 53"
Antenna Structure Registration Number:
1244135

NOTE: NOT TO SCALE

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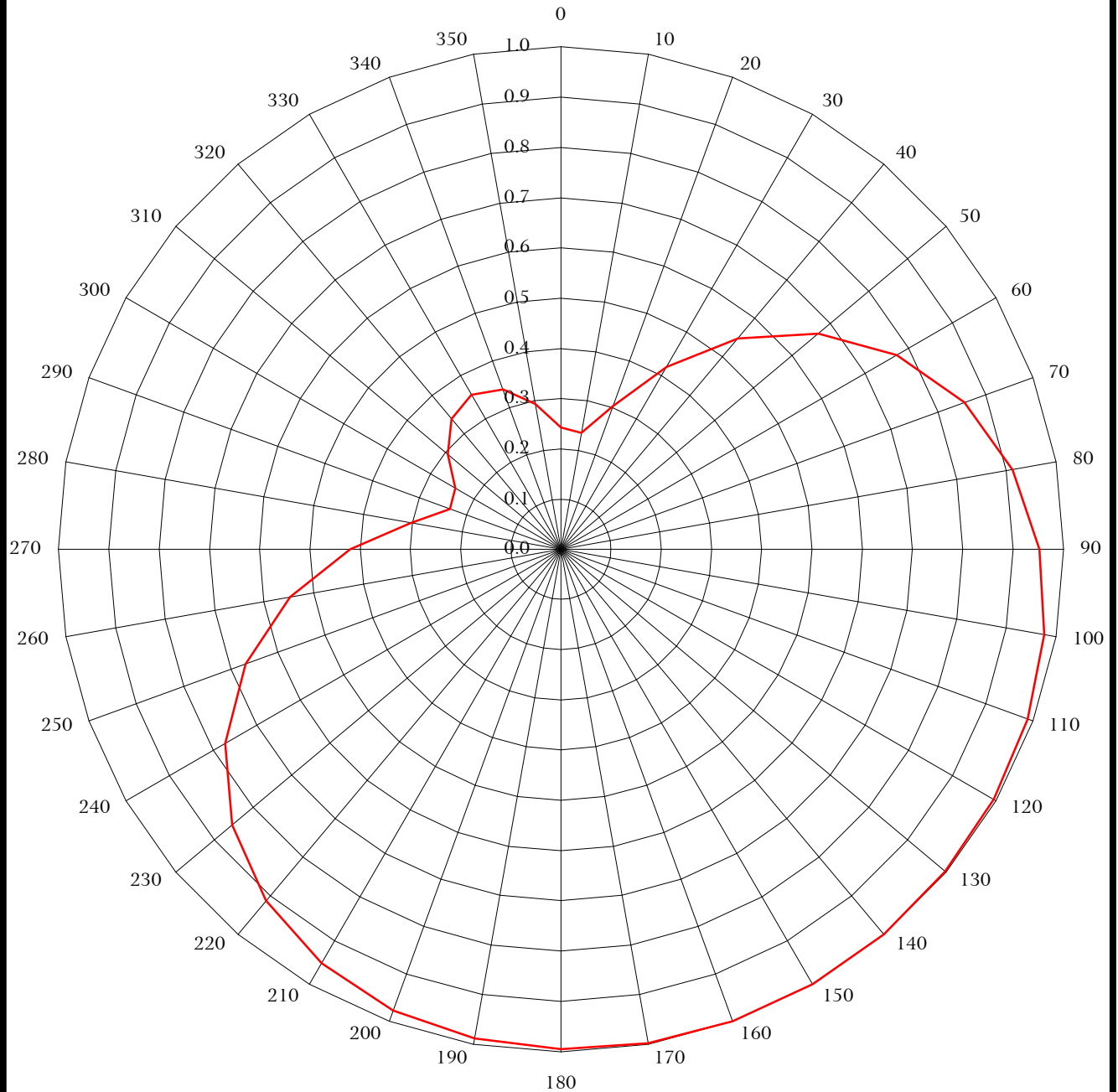
WTJX-DT CHANNEL 44

Charlotte Amalie, U.S. Virgin Islands

20090917

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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CHARLOTTE AMALIE, U.S. VI

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EXHIBIT 4

WTJX-DT CHANNEL 44

CHARLOTTE AMALIE, USVI

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



WTJX-DT CHANNEL 44

CHARLOTTE AMALIE, U.S. VI

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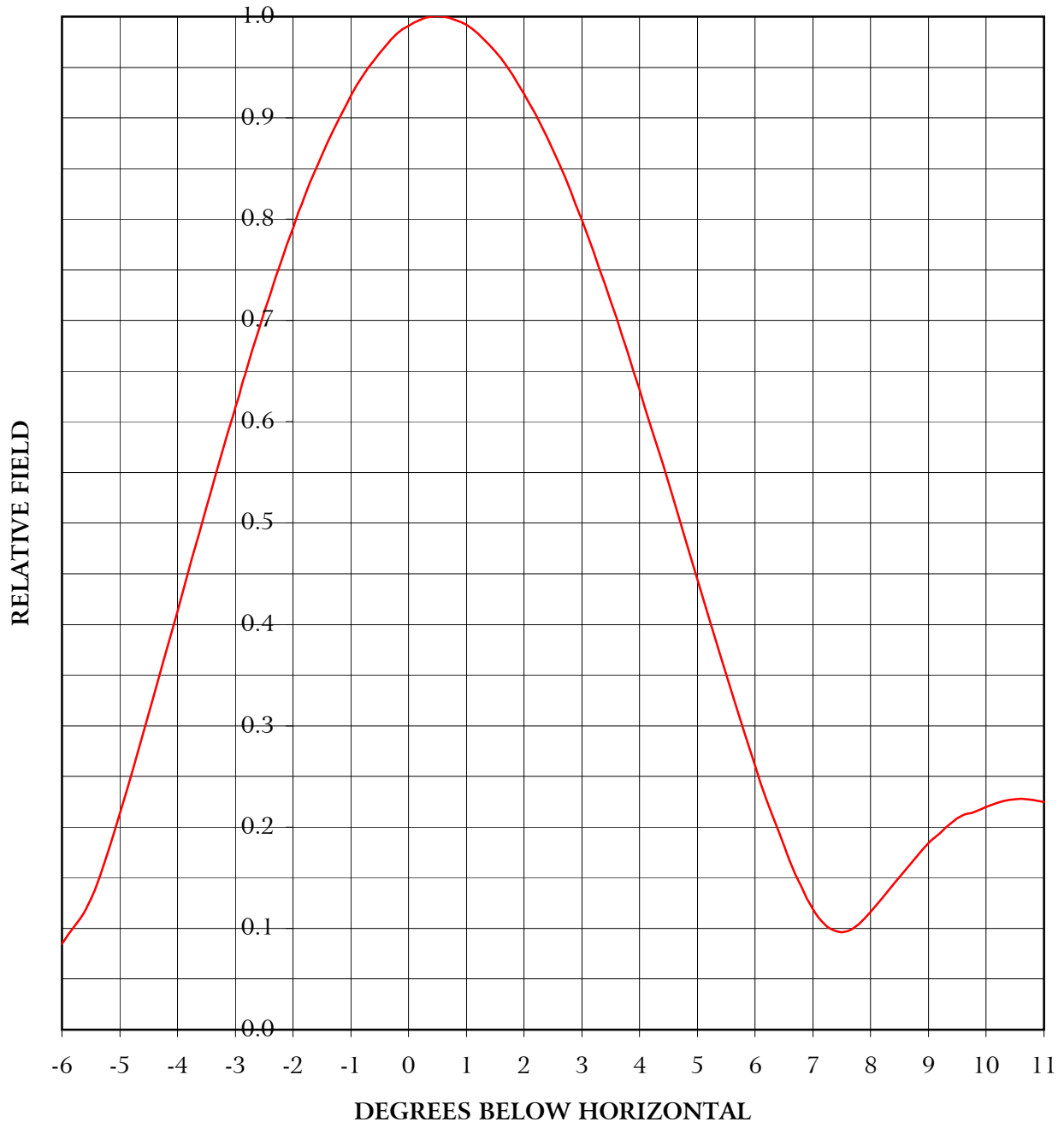
EXHIBIT 5

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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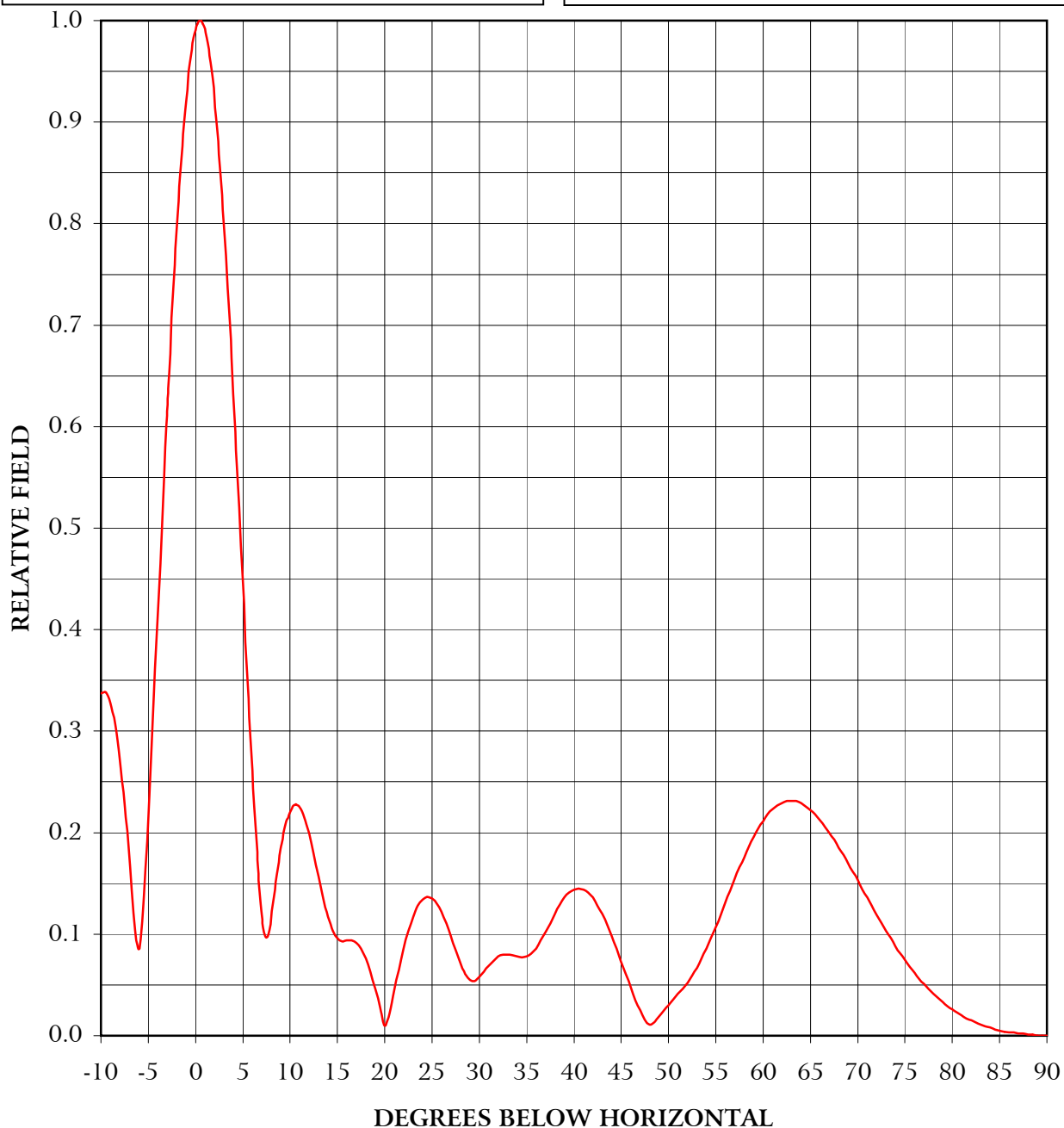
EXHIBIT 6

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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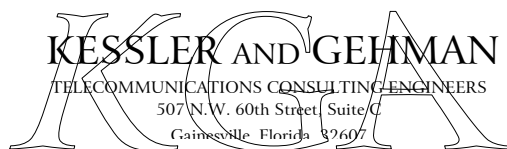
EXHIBIT 7

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		

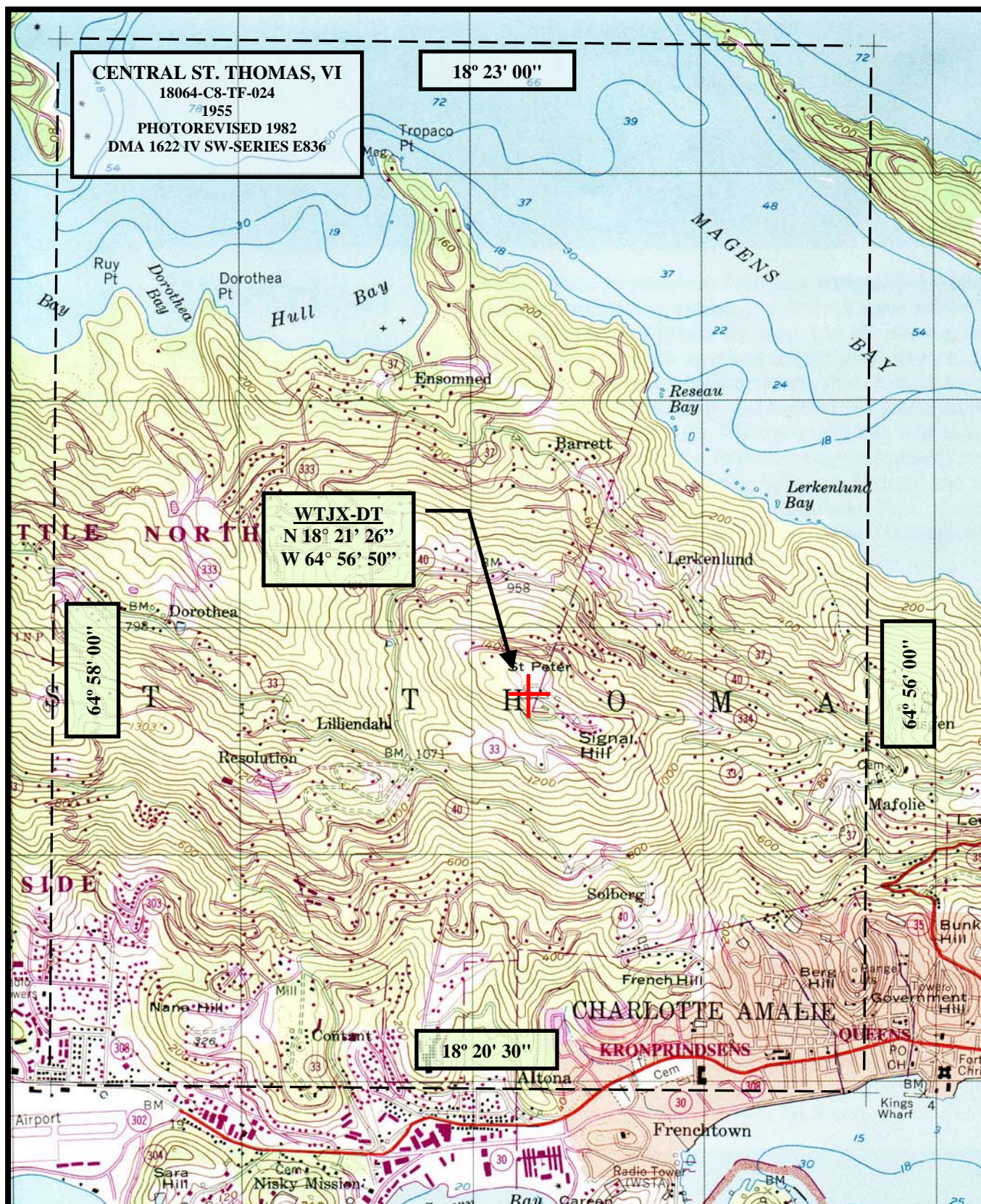


WTJX-DT CHANNEL 44

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EXHIBIT 8



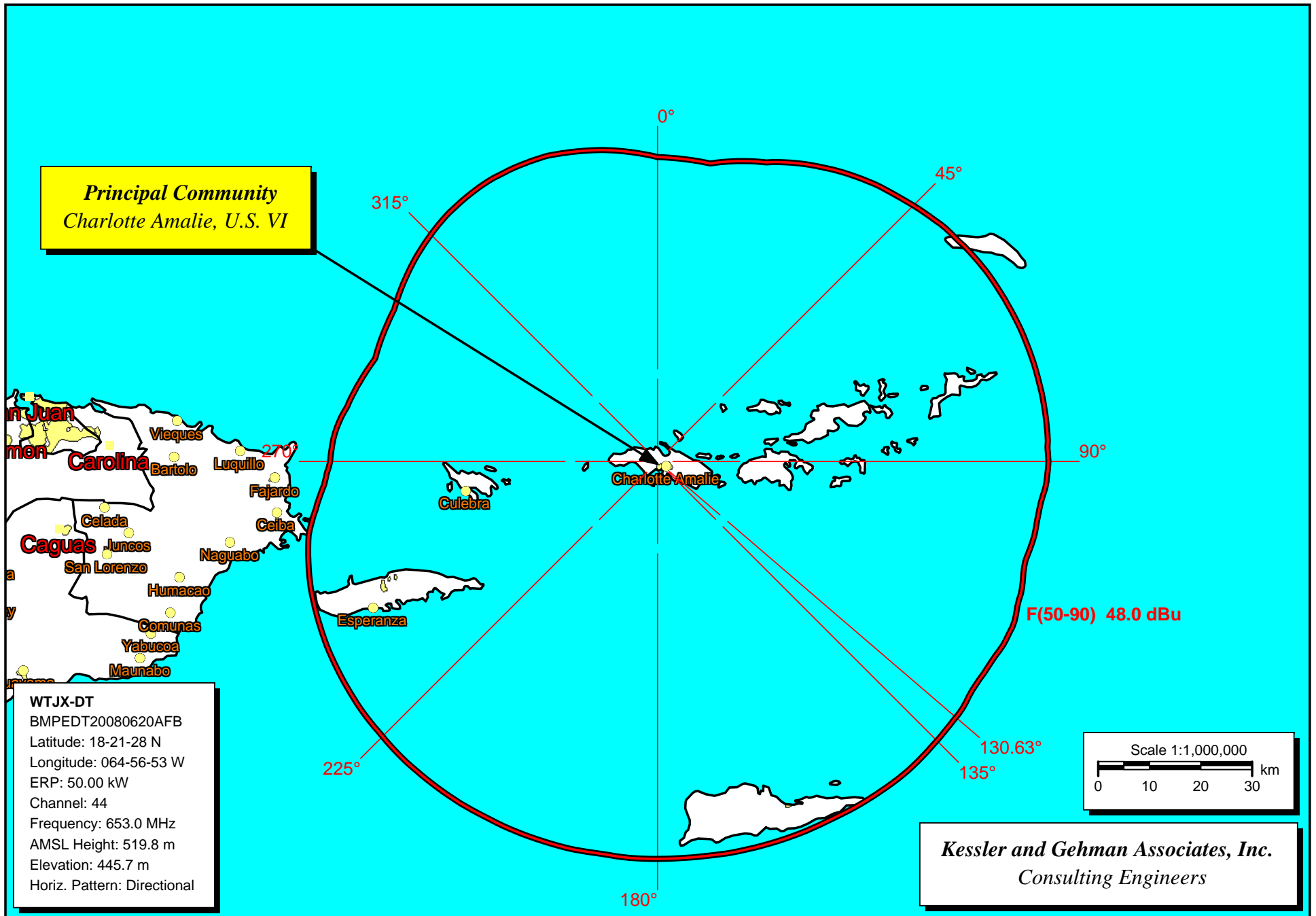
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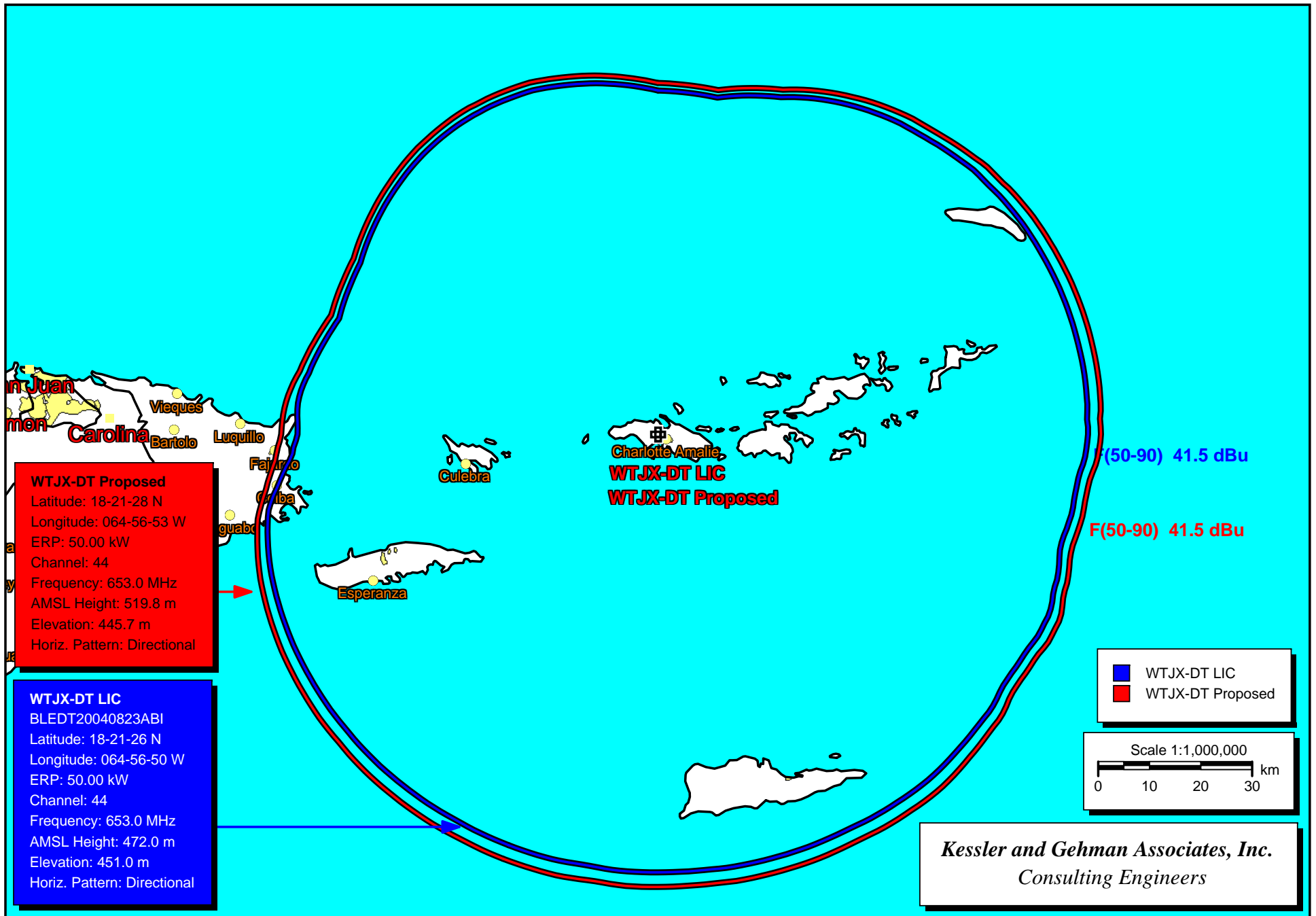
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EXHIBIT 9



WTJX-DT F(50,90) 48.0 dBuV/m Principal Community Contour



Licensed WTJX-DT vs. Proposed WTJX-DT F(50,90) 41.5 dBuV/m Contours

Percent allowed new interference: 0.500
Percent allowed new interference to Class A: 0.500
Census data selected 2000
Post Transition Data Base Selected ./data_files/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-22-2009 Time: 08:48:37

Record Selected for Analysis

WTJX-DT USERRECORD-01 CHARLOTTE AMALIE VI US
Channel 44 ERP 50. kW HAAT 505. m RCAMSL 00520 m
Latitude 018-21-28 Longitude 0064-56-53
Status APP Zone 2 Border
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	2.928	520.0	69.2
45.0	18.453	512.7	81.6
90.0	45.315	497.7	87.2
135.0	49.900	504.7	88.4
180.0	49.501	518.2	89.2
225.0	39.029	519.5	87.5
270.0	8.778	447.9	73.8
315.0	4.977	520.0	72.7

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WTJX-DT 44 CHARLOTTE AMALIE VI USERRECORD01

and station

SHORT TO: WTJX-TV 44 CHARLOTTE AMALIE VI DTVPLN DTVP1596
18 -21-28 64 -56-53
Req. separation 223.7 Actual separation 0.0 Short 223.7 km

SHORT TO: WIDP 45 GUAYAMA PR BLCDT 20071113ACX
018-16-44 0065-51-10
Req. separation => 24.0 <= 110.0 Actual separation 96.0 Short 14.0(72.0) km

SHORT TO: WIDP 45 GUAYAMA PR DTVPLN DTVP1629
18 -16-48 65 -51-08
Req. separation => 24.0 <= 110.0 Actual separation 96.0 Short 14.0(72.0) km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Proposed Station			
Channel	Call	City/State	ARN
44	WTJX-DT	CHARLOTTE AMALIE VI	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	WSUR-DT	PONCE PR	173.2	LIC	BLCDT	-20030819ABT
43	WIPR-TV	SAN JUAN PR	119.6	CP MOD	BMPEDT	-20080619AEX
43	WIPR-TV	SAN JUAN PR	119.6	PLN	DTVPLN	-DTVP1553
43	WZVI	CHARLOTTE AMALIE VI	2.4	LIC	BLCDT	-20040517AFB
43	WZVI	CHARLOTTE AMALIE VI	2.4	PLN	DTVPLN	-DTVP1559
45	WIDP	GUAYAMA PR	95.9	LIC	BLCDT	-20071113ACX
45	WIDP	GUAYAMA PR	95.8	PLN	DTVPLN	-DTVP1629

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	WSUR-DT	PONCE PR	BLCDT	-20030819ABT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	WIPR-TV	SAN JUAN PR	55.9	CP MOD	BMPEDT	-20080619AEX
43	WZVI	CHARLOTTE AMALIE VI	175.0	LIC	BLCDT	-20040517AFB
43	WZVI	CHARLOTTE AMALIE VI	175.0	PLN	DTVPLN	-DTVP1559
44	WTJX-TV	CHARLOTTE AMALIE VI	173.2	PLN	DTVPLN	-DTVP1596
44	WTJX-DT	CHARLOTTE AMALIE VI	173.2	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	WIPR-TV	SAN JUAN PR	BMPEDT	-20080619AEX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	WSUR-DT	PONCE PR	55.9	LIC	BLCDT	-20030819ABT
43	WZVI	CHARLOTTE AMALIE VI	121.3	LIC	BLCDT	-20040517AFB
43	WZVI	CHARLOTTE AMALIE VI	121.3	PLN	DTVPLN	-DTVP1559
44	WTJX-TV	CHARLOTTE AMALIE VI	119.6	PLN	DTVPLN	-DTVP1596
44	WTJX-DT	CHARLOTTE AMALIE VI	119.6	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	WIPR-TV	SAN JUAN PR	DTVPLN	-DTVP1553

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	WZVI	CHARLOTTE AMALIE VI	121.3	LIC	BLCDT	-20040517AFB
43	WZVI	CHARLOTTE AMALIE VI	121.3	PLN	DTVPLN	-DTVP1559
44	WTJX-TV	CHARLOTTE AMALIE VI	119.6	PLN	DTVPLN	-DTVP1596

44 WTJX-DT CHARLOTTE AMALIE VI 119.6 APP USERRECORD-01
Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	WZVI	CHARLOTTE AMALIE VI	BLCDT	-20040517AFB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	WSUR-DT	PONCE PR	175.0	LIC	BLCDT	-20030819ABT
43	WIPR-TV	SAN JUAN PR	121.3	CP MOD	BMPEDT	-20080619AEX
43	WIPR-TV	SAN JUAN PR	121.3	PLN	DTVPLN	-DTVP1553
44	WTJX-TV	CHARLOTTE AMALIE VI	2.4	PLN	DTVPLN	-DTVP1596
44	WTJX-DT	CHARLOTTE AMALIE VI	2.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	WZVI	CHARLOTTE AMALIE VI	DTVPLN	-DTVP1559

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	WSUR-DT	PONCE PR	175.0	LIC	BLCDT	-20030819ABT
43	WIPR-TV	SAN JUAN PR	121.3	CP MOD	BMPEDT	-20080619AEX
43	WIPR-TV	SAN JUAN PR	121.3	PLN	DTVPLN	-DTVP1553
44	WTJX-TV	CHARLOTTE AMALIE VI	2.4	PLN	DTVPLN	-DTVP1596
44	WTJX-DT	CHARLOTTE AMALIE VI	2.4	APP	USERRECORD-01	

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.
45	WIDP	GUAYAMA PR	BLCDT	-20071113ACX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
44	WTJX-TV	CHARLOTTE AMALIE VI	95.9	PLN	DTVPLN	-DTVP1596

46	WCCV-TV	ARECIBO PR	95.9	CP	BPCDT	-20080317AEO
46	WCCV-TV	ARECIBO PR	95.9	PLN	DTVPLN	-DTVP1655
44	WTJX-DT	CHARLOTTE AMALIE VI	95.9	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
45	WIDP	GUAYAMA PR	DTVPLN	-DTVP1629

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
44	WTJX-TV	CHARLOTTE AMALIE VI	95.8	PLN	DTVPLN	-DTVP1596
46	WCCV-TV	ARECIBO PR	95.9	CP	BPCDT	-20080317AEO
46	WCCV-TV	ARECIBO PR	95.9	PLN	DTVPLN	-DTVP1655
44	WTJX-DT	CHARLOTTE AMALIE VI	95.8	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	WTJX-DT	CHARLOTTE AMALIE VI	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	WSUR-DT	PONCE PR	173.2	LIC	BLCDDT	-20030819ABT
43	WIPR-TV	SAN JUAN PR	119.6	CP MOD	BMPEDT	-20080619AEX
43	WIPR-TV	SAN JUAN PR	119.6	PLN	DTVPLN	-DTVP1553
43	WZVI	CHARLOTTE AMALIE VI	2.4	LIC	BLCDDT	-20040517AFB
43	WZVI	CHARLOTTE AMALIE VI	2.4	PLN	DTVPLN	-DTVP1559
45	WIDP	GUAYAMA PR	95.9	LIC	BLCDDT	-20071113ACX
45	WIDP	GUAYAMA PR	95.8	PLN	DTVPLN	-DTVP1629

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 8
Before Analysis

Results for: 44A VI CHARLOTTE AMALIE USERRECORD01 APP
HAAT 505.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	42918	20452.7
not affected by terrain losses	42918	20200.7

lost to NTSC IX	0	0.0
lost to additional IX by ATV	69	64.0
lost to ATV IX only	69	64.0
lost to all IX	69	64.0

Potential Interfering Stations Included in above Scenario 1

43A PR SAN JUAN DTVPLN DTVP1553 PLN

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