

WJPM-DT CHANNEL 45 FLORENCE, SOUTH CAROLINA
MINOR MODIFICATION OF CONSTRUCTION PERMIT
APPLICATION TO CHANGE: 1) ANTENNA SYSTEM; 2)
EFFECTIVE RADIATED POWER; 3) ANTENNA HEIGHT
RADIATION CENTER; AND 4) OVERALL HEIGHT OF
SUPPORT STRUCTURE

(SOUTH CAROLINA EDUCATIONAL TELEVISION COMMISSION)

KESSLER & GEHMAN ASSOCIATES, INC.
TELECOMMUNICATIONS CONSULTING ENGINEERS

20041214

Prepared by William T. Godfrey

KG&A

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ENGINEERING TECHNICAL STATEMENT PREPARED BY WILLIAM T. GODFREY, JR. OF THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC., TELECOMMUNICATIONS CONSULTING ENGINEERS IN CONNECTION WITH A MINOR MODIFICATION OF CONSTRUCTION PERMIT APPLICATION TO MAKE CHANGES TO THE SOUTH CAROLINA EDUCATIONAL TELEVISION COMMISSION DIGITAL BROADCAST FACILITY'S CONSTRUCTION PERMIT (BPEDT-20000501AGS), WJPM-DT CHANNEL 45, FLORENCE, SOUTH CAROLINA.

The firm Kessler and Gehman Associates, Inc., ("KGA") has been retained by the South Carolina Educational Television Commission ("SCETC"), Columbia, South Carolina in order to prepare engineering studies and the engineering portion of a minor modification of construction permit application for the authorized WJPM-DT Channel 45 digital television broadcast facility in order to correct site coordinates and make changes to the following: 1) antenna system; 2) Effective Radiated Power ("ERP"); 3) antenna height radiation center; and 4) overall height of support structure.

Discussion

The SCETC currently has a construction permit (BPEDT-20000501AGS) to build and operate WJPM-DT on digital Channel 45 with an ERP of 50 kW at an antenna height radiation center of 233 meters Above Ground Level ("AGL") using a TCI model 888-8-24-ND nondirectional, top-mount antenna. The SCETC is licensed to operate WJPM-TV on analog Channel 33 with an ERP of 646 kW at an antenna height radiation center of 236.5 meters AGL using a horizontally polarized, top-mounted, nondirectional antenna. The authorized WJPM-DT transmitter site coordinates (NAD27) are: Latitude N 34°-16'-47" and Longitude W 79°-44'-35" however, the correct transmitter site coordinates (NAD27) are: Latitude N 34°-16'-48" and Longitude W 79°-44'-35" which means the longitude is off by one second. Apparently, the previous digital application was filed based on a NAD83-to-NAD27 conversion using the rounded Antenna Structure Registration ("ASR") coordinates rather than the NAD83-to-NAD27 conversion using the more precise coordinates that were filed with the Federal Aviation Administration ("FAA") using Form 7460-1 (98-ASO-3419-OE).

The digital channel allotted to the SCETC for WJPM-DT, Channel 45, is twelve channels above the licensed NTSC facility, Channel 33. Therefore, the SCETC awarded an antenna contract to procure a Dielectric model TUF-O4-14/56H-1-T broadband (D45/N33), nondirectional antenna for the WJPM digital and analog facilities in order to combine the digital and analog signals.

The proposed Dielectric model TUF-O4-14/56H-1-T nondirectional antenna is longer in length than the existing WJPM-TV top-mounted nondirectional antenna, therefore, the overall height of the WJPM support structure will increase by 3.5 meters and the antenna height radiation center will increase by 4.3 meters for the digital facility. The change in antenna systems will result in an omni-for-omni swap and the 5 kW reduction in ERP will keep the entire service area of the proposed facility from exceeding the proposed service area in one or more azimuthal directions.

Accordingly, this minor modification of construction permit application requests authorization to correct the transmitter site coordinates and to make the following changes: 1) change antennas from the authorized TCI model 888-8-24-ND broadband, nondirectional antenna to the proposed Dielectric model TUF-O4-14/56H-1-T broadband, nondirectional antenna; 2) decrease the ERP from the authorized 50 kW to the proposed 45 kW; 3) increase the antenna height radiation center by 4.3 meters from the authorized height of 233.0 meters AGL to the proposed height of 237.3 meters AGL; and 4) increase the overall height of the support structure by 3.5 meters from the authorized height of 243.2 meters AGL to the proposed height of 246.7 meters AGL. Since the overall height of the support structure will increase by 3.5 meters, it was necessary to contact the Federal Aviation Administration (“FAA”). An FAA Form 7460-1 was filed with the FAA to obtain authorization to increase the overall height of the support structure and the FAA issued a Notice of No Hazard to Air Navigation Determination (see Exhibit 13).

Exhibit 8 is a principal community map demonstrating that the proposed WJPM-DT Channel 45 F(50,90) 48.0 dBuV/m enhanced principal community contour would completely encompass the principal community of Florence, SC.

Exhibit 9 is an FCC coverage contour map depicting the authorized F(50,90) 41.6 dBuV/m protected noise limited contour (black) and the proposed F(50,90) 41.6 dBuV/m protected noise

limited contour (red). It can be seen that the authorized noise limited contour would completely encompass the proposed noise limited contour in all azimuthal directions.

Exhibit 10 is a distance to contour tabulation of the WJPM-DT (CP) facility. This exhibit depicts the distance, in kilometers, from the transmitter to the authorized protected noise limited contour in all azimuthal directions.

Exhibit 11 is a distance to contour tabulation of the proposed WJPM-DT facility. This exhibit depicts the distance, in kilometers, from the transmitter to the proposed WJPM-DT protect noise limited contour in all azimuthal directions.

Exhibit 12 is a distance to contour comparison spread sheet which compares the distance from the transmitter to the authorized protected noise limited contour (Exhibit 10) and the proposed protect noise limited contour (Exhibit 11). The second column from the right depicts “PASS” if the proposed distance to contour values are less than or equal to the authorized distance to contour values or “FAIL” if the proposed distance to contour values are greater than the authorized distance to contour values. It can be seen that the authorized distance to contour values are greater than or equal to the proposed distance to contour values in all azimuthal directions which verifies quantitatively that the authorized facility’s protected noise limited contour would completely encompass the proposed facility’s protected noise limited contour.

Since the overall height of the support structure will increase by 3.5 meters, it was necessary to contact the Federal Aviation Administration (“FAA”). An FAA Form 7460-1 was filed with the FAA to obtain authorization increase the overall height of the support structure and the FAA issued a Notice of No Hazard to Air Navigation Determination (see Exhibit 13).

Interference Studies

Interference studies are not required since the proposed protected noise limited contour would be completely encompassed by the authorized protected noise limited contour.

Transmitter Site

The proposed WJPM-DT antenna is a top-mount Dielectric model TUF-O4-14/56H-1-T horizontally polarized, nondirectional, broadband antenna. The tower is registered with the FCC and the registration number is 1059180. The support structure is located off of Secondary State Road 173 (SSR 173) on the south side and is approximately 4.84 km north (351°) of Quinby, SC. The proposed antenna height radiation center is 237.3 meters AGL. The height of the existing support structure will be increased from the authorized overall height of 243.2 meters AGL to 246.7 meters AGL and the FAA issued a Notice of No Hazard to Air Navigation Determination (Exhibit 13).

Exhibits

Exhibits 1 and 2 represent WJPM'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 elevation pattern and Exhibit 6 displays the elevation pattern tabulation.

Exhibit 7 depicts the location of the WJPM-DT site on a 7.5-Minute (Series) Topographic map.

Exhibit 8 depicts the proposed WJPM-DT enhanced principal community contour, boundaries of the principal community to be served, and the transmitting location with radials every 45°.

Exhibit 9 depicts the WJPM-DT Channel 45 authorized and proposed noise limited contours and demonstrates that the authorized service area would encompass the proposed service area in all azimuthal directions.

Exhibit 10 is a distance to contour tabulation of the WJPM-DT authorized facility. This exhibit depicts the distance, in kilometers, from the transmitter to the authorized noise limited contour in all azimuthal directions.

Exhibit 11 is a distance to contour tabulation of the proposed WJPM-DT facility. This exhibit depicts the distance, in kilometers, from the transmitter to the proposed WJPM-DT noise limited contour in all azimuthal directions.

Exhibit 12 is a distance to contour comparison tabulation chart between the authorized WJPM-DT facility and the proposed WJPM-DT facility. The chart demonstrates that the authorized noise limited contour would completely encompass the proposed noise limited contour.

Exhibit 13 is a Notice of No Hazard to Air Navigation Determination issued by the FAA allowing a 3.5-meter increase to the overall height of the support structure.

Environmental Impact

The proposed construction would have no significant environmental impact as defined in §1.1307 of the FCC Rules. The DTV transmitter, 6-1/8 inch (75-ohm) EIA/DCA transmission line and antenna system would produce an ERP of 45 kW. It was determined that the maximum lobe of radiation from the base of the tower out to approximately 2.79 miles would occur at approximately 592.4 feet from the base of the tower. At approximately 592.4 feet from the base of the tower, the depression angle of the main lobe would be 52.5° below the horizontal. At that point, the relative field would be 0.236 and the power density six feet above the ground would be 0.00151 mW/cm². This is only 0.07% of the maximum permissible exposure (“MPE”) limits for Occupational/Controlled Exposure and only 0.34% of the MPE limits for General Population/Uncontrolled Exposure authorized by the American National Standards Institute (“ANSI”). Since the proposed operation of WJPM-DT Channel 45 would not exceed 5.0% of the MPE limit for Occupational/Controlled Exposure or General Population/Uncontrolled Exposure at any point on the ground, WJPM-DT would not be 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.

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, Jr., 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.

A handwritten signature in blue ink that reads 'William T. Godfrey, Jr.' The signature is written in a cursive, flowing style.

WILLIAM T. GODFREY, JR.
Telecommunications Technical Consultant

December 14, 2004

WJPM-DT Channel 45
Florence, South Carolina

ENGINEERING SPECIFICATIONS

A. Transmitter Site:

Geographic coordinates (NAD27):

North Latitude	34° 16' 48"
West Longitude	79° 44' 35"

Transmitter Site: **County Road 173**
 5.5 miles NNE of Florence, SC

B. Main Studio Site Address: **1101 George Rogers Boulevard**
 Columbia, South Carolina 29201

Proposed Facility:

DTV Channel	Number	45
	Frequency	656-662 MHz

C. Antenna Height:

Height of Site Above Mean Sea Level (AMSL)	36.5 M
Overall Height of Structure Above Ground	246.7 M
(including all appurtenances)	
Overall Height of Structure Above Mean Sea Level	283.2 M
(including all appurtenances)	
Height of Site Above Average Terrain	5.1 M
Antenna Height Radiation Center (R/C) Above Ground	237.3 M
Antenna Height R/C Above Mean Sea Level	273.8 M
Average of All Non-Odd Radials	31.4 M
Antenna Height R/C Above Average Terrain	242.4 M

D. System Parameters – Horizontal Polarization:

Transmitter Power Required:	2.1 kW
Maximum Power Input to Antenna:	1.5 kW
Transmission Line Loss:	1.01 dB
Combiner & Splitter Loss:	0.25 dB
Total System Loss:	1.26 dB
Transmission Line Efficiency:	79.3%
Combiner & Splitter Efficiency:	94.4%
Total System Efficiency:	74.8%
Maximum Antenna Gain in Beam Maximum:	14.64 dB
Maximum Antenna Gain in Horizontal Plane:	12.88 dB
Maximum Effective Radiated Power:	16.53 dBk
In Beam Maximum:	45.0 kW
Maximum Effective Radiated Power:	14.77 dBk
In Horizontal Plane:	30.0 kW

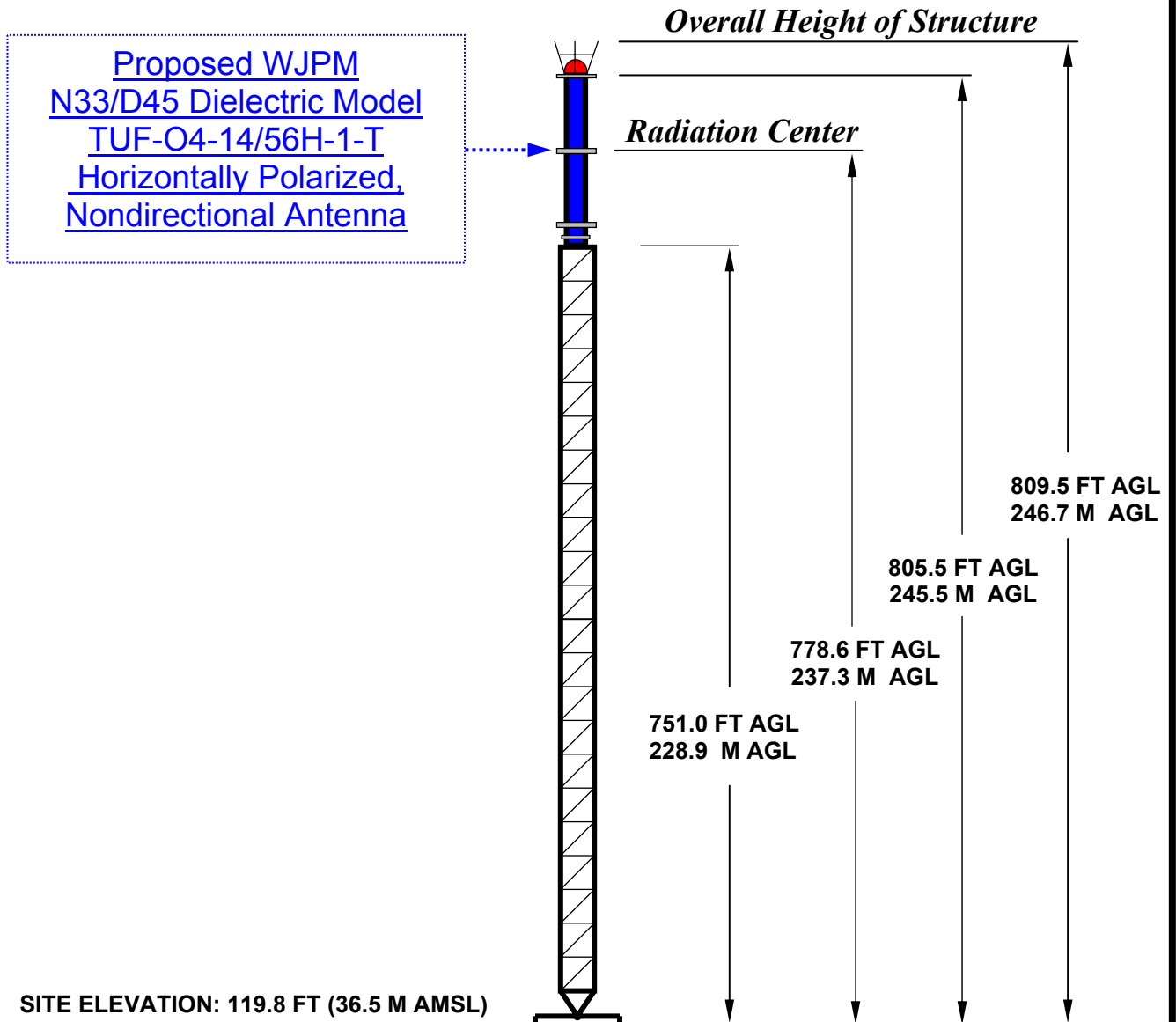
WJPM-DT Channel 45
Florence, South Carolina

**DATA FOR PROPOSED NONDIRECTIONAL
TRANSMITTING ANTENNA**

- A. **Antenna:** Dielectric Model TUF-O4-14/56H-1-T, Horizontally Polarized, Nondirectional, Top-mount, Broadband Antenna.
- B. **Electrical Beam Tilt:** 0.5°
- C. **Mechanical Beam Tilt:** None
- D.

<u>Maximum Power Gain</u>	<u>Horizontal Polarization</u>
Maximum: 29.1	(14.64 dB)
Horizontal: 19.4	(12.88 dB)
- E. **Length:** 54.5 feet (16.6 meters) not including lightning protector.
- F. **Transmitter Power Output:** 2.1 kW
- G. **Null Fill:** 22.9%
- H. **Transmission Line:** 6-1/8" 75-ohm EIA/DCA
- I. **Transmission Line Loss:** 0.126 dB/100-feet
- J. **Total Transmission Line:** 801 feet (244.1 meters)
- K. **Transmission Line Attenuation:** 1.01 dB
- L. **Combiner Loss:** 0.25 dB
- M. **Total Antenna System Loss:** 1.26 dB

ELEVATION VIEW



OVERALL HEIGHT AGL: 246.7 M
OVERALL HEIGHT AMSL: 283.2 M
RADIATION CENTER AGL: 237.3 M
RADIATION CENTER AMSL: 273.8 M
RADIATION CENTER HAAT: 242.4 M
AVG OF ALL NON-ODD RADIALS: 31.4 M
SITE HAAT: 5.1 M

COORDINATES (NAD 27):

N. LATITUDE 34° 16' 48"

W. LONGITUDE 79° 44' 35"

Antenna Structure Registration Number:
1059180

NOTE: NOT TO SCALE

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WJPM-DT CHANNEL 45

FLORENCE, SOUTH CAROLINA

20041213

EXHIBIT 3

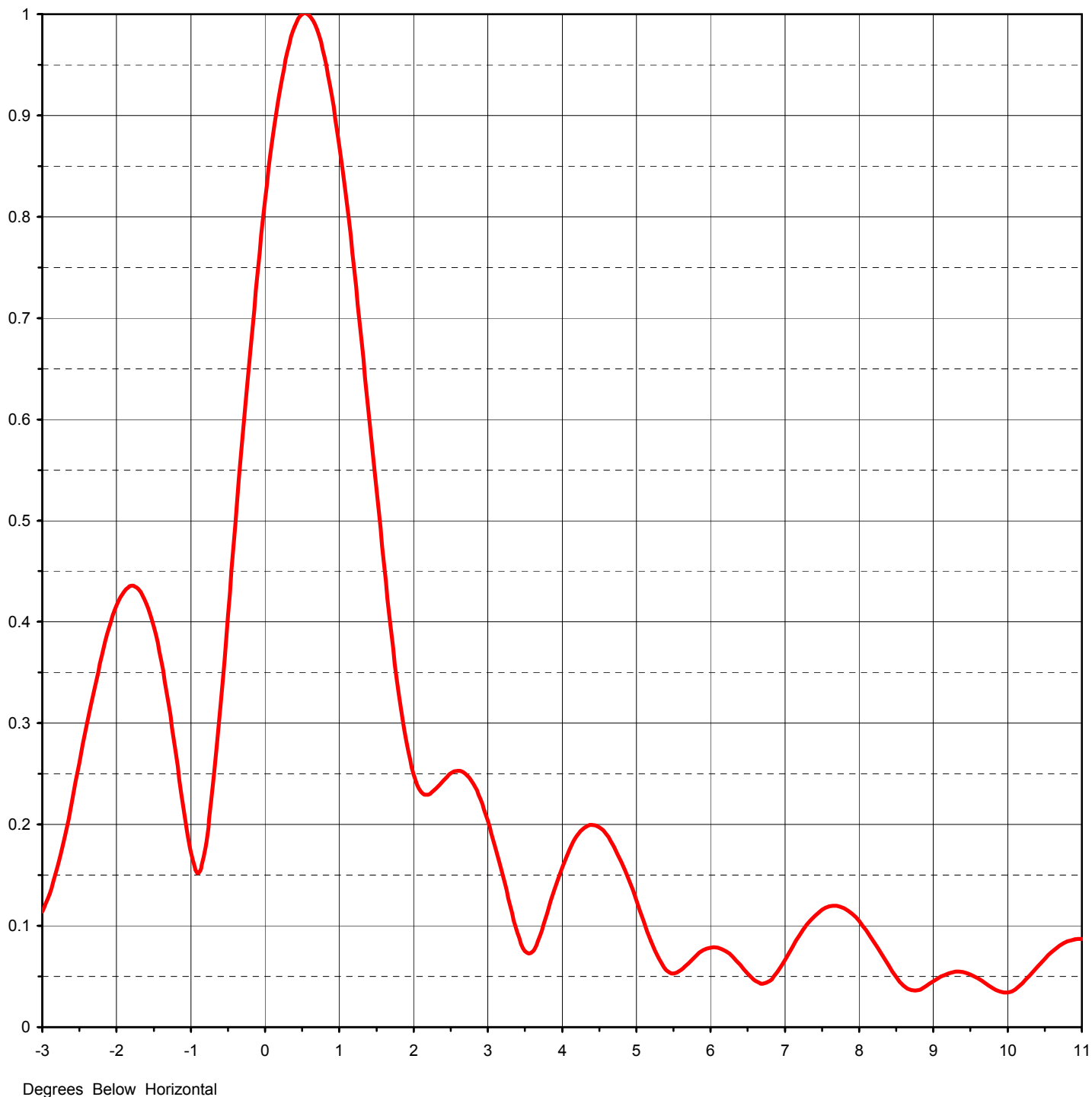


Proposal Number	DCA-10417	Revision:	1
Date	19-Mar-04		
Call Letters	WJPM-DT	Channel	45
Location	Florence, SC		
Customer	SCETV		
Antenna Type	TUF-O4-14/56H-1-T		

ELEVATION PATTERN

RMS Gain at Main Lobe	29.10 (14.64 dB)
RMS Gain at Horizontal	19.40 (12.88 dB)
Calculated / Measured	Calculated

Beam Tilt	0.50 deg
Frequency	659.00 MHz
Drawing #	14U291050



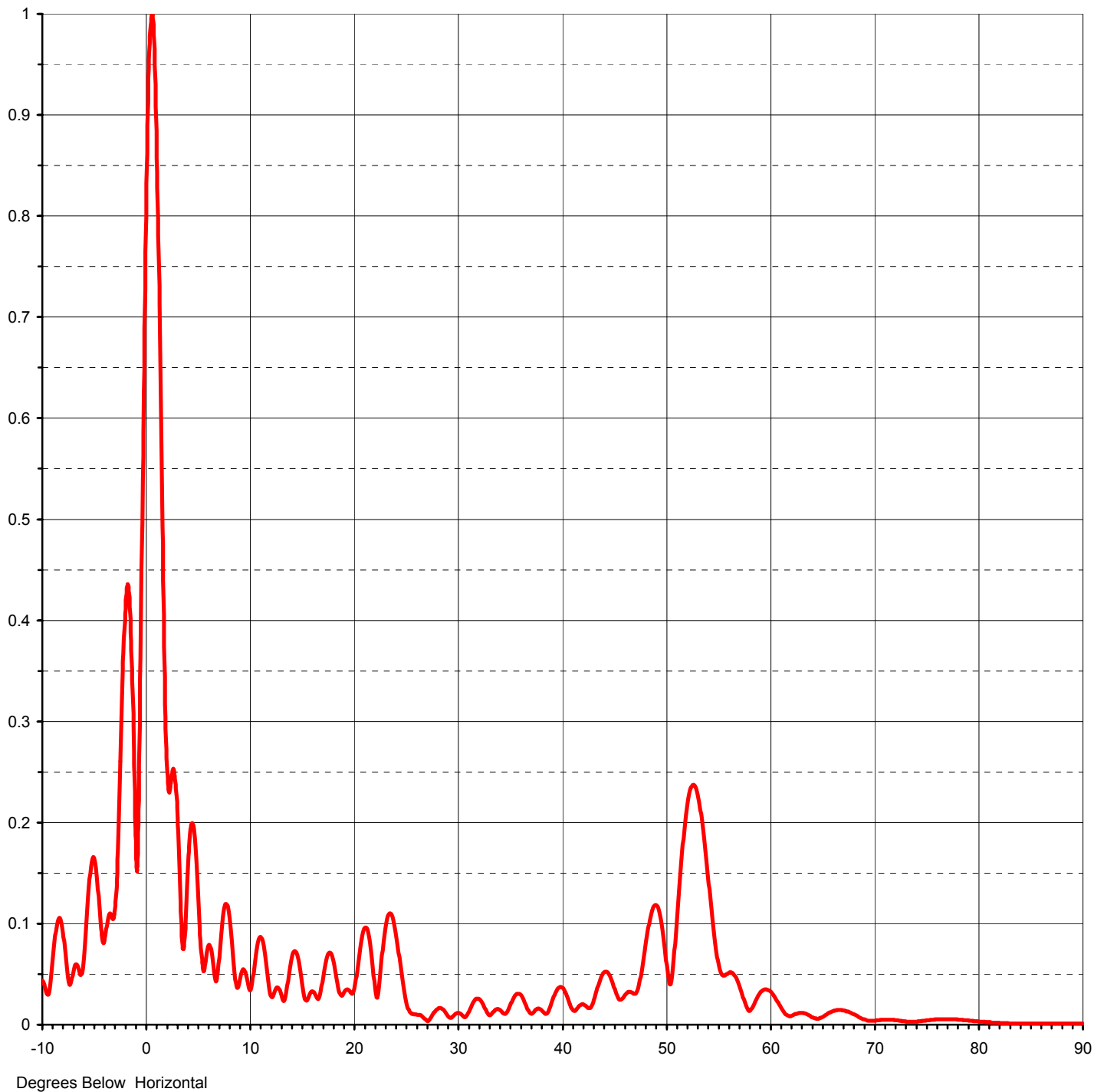


Proposal Number	DCA-10417	Revision:	1
Date	19-Mar-04		
Call Letters	WJPM-DT	Channel	45
Location	Florence, SC		
Customer	SCETV		
Antenna Type	TUF-O4-14/56H-1-T		

ELEVATION PATTERN

RMS Gain at Main Lobe	29.10	(14.64 dB)
RMS Gain at Horizontal	19.40	(12.88 dB)
Calculated / Measured	Calculated	

Beam Tilt	0.50 deg
Frequency	659.00 MHz
Drawing #	14U291050-90



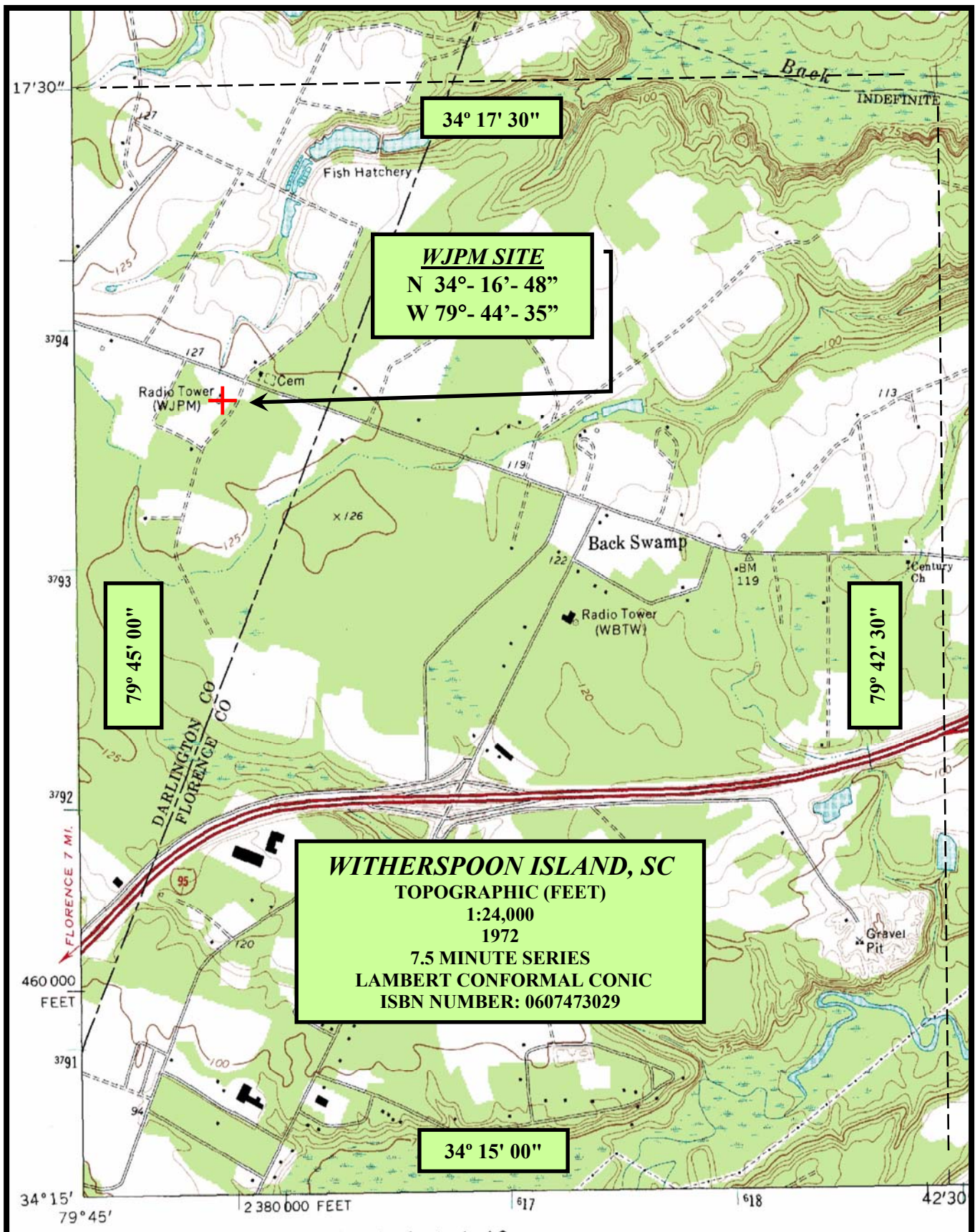


Proposal Number **DCA-10417** Revision: **1**
 Date **19-Mar-04**
 Call Letters **WJPM-DT** Channel **45**
 Location **Florence, SC**
 Customer **SCETV**
 Antenna Type **TUF-O4-14/56H-1-T**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **14U291050-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.044	2.4	0.244	10.6	0.068	30.5	0.009	51.0	0.093	71.5	0.005
-9.5	0.030	2.6	0.253	10.8	0.080	31.0	0.011	51.5	0.160	72.0	0.004
-9.0	0.064	2.8	0.241	11.0	0.087	31.5	0.022	52.0	0.212	72.5	0.004
-8.5	0.103	3.0	0.204	11.5	0.069	32.0	0.026	52.5	0.236	73.0	0.003
-8.0	0.091	3.2	0.149	12.0	0.031	32.5	0.019	53.0	0.231	73.5	0.003
-7.5	0.044	3.4	0.093	12.5	0.035	33.0	0.010	53.5	0.201	74.0	0.003
-7.0	0.054	3.6	0.075	13.0	0.032	33.5	0.013	54.0	0.154	74.5	0.004
-6.5	0.055	3.8	0.112	13.5	0.029	34.0	0.015	54.5	0.104	75.0	0.004
-6.0	0.066	4.0	0.158	14.0	0.063	34.5	0.011	55.0	0.064	75.5	0.005
-5.5	0.138	4.2	0.189	14.5	0.071	35.0	0.018	55.5	0.049	76.0	0.005
-5.0	0.164	4.4	0.200	15.0	0.046	35.5	0.028	56.0	0.051	76.5	0.005
-4.5	0.114	4.6	0.190	15.5	0.024	36.0	0.030	56.5	0.050	77.0	0.005
-4.0	0.084	4.8	0.163	16.0	0.033	36.5	0.021	57.0	0.041	77.5	0.005
-3.5	0.110	5.0	0.125	16.5	0.026	37.0	0.011	57.5	0.025	78.0	0.005
-3.0	0.114	5.2	0.085	17.0	0.042	37.5	0.014	58.0	0.014	78.5	0.005
-2.8	0.156	5.4	0.056	17.5	0.068	38.0	0.015	58.5	0.021	79.0	0.004
-2.6	0.223	5.6	0.056	18.0	0.066	38.5	0.011	59.0	0.030	79.5	0.004
-2.4	0.298	5.8	0.070	18.5	0.039	39.0	0.020	59.5	0.035	80.0	0.003
-2.2	0.367	6.0	0.079	19.0	0.030	39.5	0.034	60.0	0.033	80.5	0.003
-2.0	0.416	6.2	0.075	19.5	0.035	40.0	0.037	60.5	0.027	81.0	0.002
-1.8	0.436	6.4	0.062	20.0	0.032	40.5	0.029	61.0	0.018	81.5	0.002
-1.6	0.418	6.6	0.046	20.5	0.064	41.0	0.016	61.5	0.011	82.0	0.002
-1.4	0.361	6.8	0.046	21.0	0.094	41.5	0.016	62.0	0.008	82.5	0.001
-1.2	0.270	7.0	0.066	21.5	0.087	42.0	0.020	62.5	0.010	83.0	0.001
-1.0	0.172	7.2	0.091	22.0	0.043	42.5	0.017	63.0	0.012	83.5	0.001
-0.8	0.177	7.4	0.110	22.5	0.042	43.0	0.021	63.5	0.011	84.0	0.001
-0.6	0.319	7.6	0.119	23.0	0.091	43.5	0.038	64.0	0.008	84.5	0.001
-0.4	0.496	7.8	0.117	23.5	0.110	44.0	0.051	64.5	0.006	85.0	0.001
-0.2	0.668	8.0	0.105	24.0	0.094	44.5	0.051	65.0	0.008	85.5	0.001
0.0	0.816	8.2	0.084	24.5	0.060	45.0	0.038	65.5	0.011	86.0	0.001
0.2	0.926	8.4	0.060	25.0	0.026	45.5	0.025	66.0	0.013	86.5	0.001
0.4	0.988	8.6	0.041	25.5	0.012	46.0	0.028	66.5	0.014	87.0	0.001
0.6	0.999	8.8	0.037	26.0	0.010	46.5	0.033	67.0	0.014	87.5	0.001
0.8	0.958	9.0	0.045	26.5	0.009	47.0	0.030	67.5	0.013	88.0	0.001
1.0	0.871	9.2	0.053	27.0	0.004	47.5	0.042	68.0	0.010	88.5	0.001
1.2	0.748	9.4	0.054	27.5	0.008	48.0	0.074	68.5	0.007	89.0	0.001
1.4	0.604	9.6	0.048	28.0	0.015	48.5	0.105	69.0	0.005	89.5	0.001
1.6	0.457	9.8	0.043	28.5	0.016	49.0	0.118	69.5	0.004	90.0	0.001
1.8	0.330	10.0	0.035	29.0	0.010	49.5	0.106	70.0	0.004		
2.0	0.249	10.2	0.037	29.5	0.008	50.0	0.068	70.5	0.005		
2.2	0.229	10.4	0.051	30.0	0.012	50.5	0.040	71.0	0.005		



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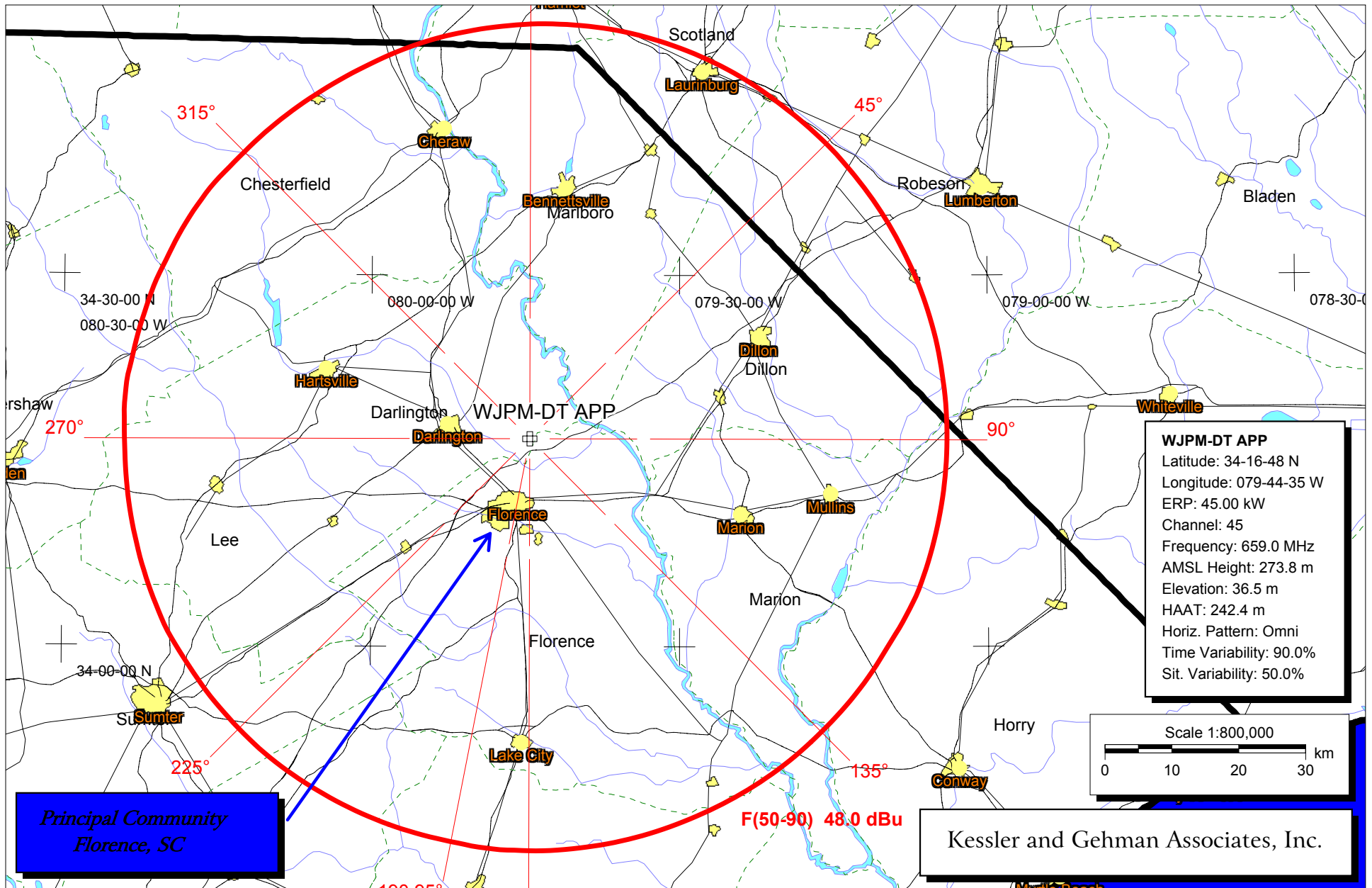
507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

WJPM-DT CHANNEL 45

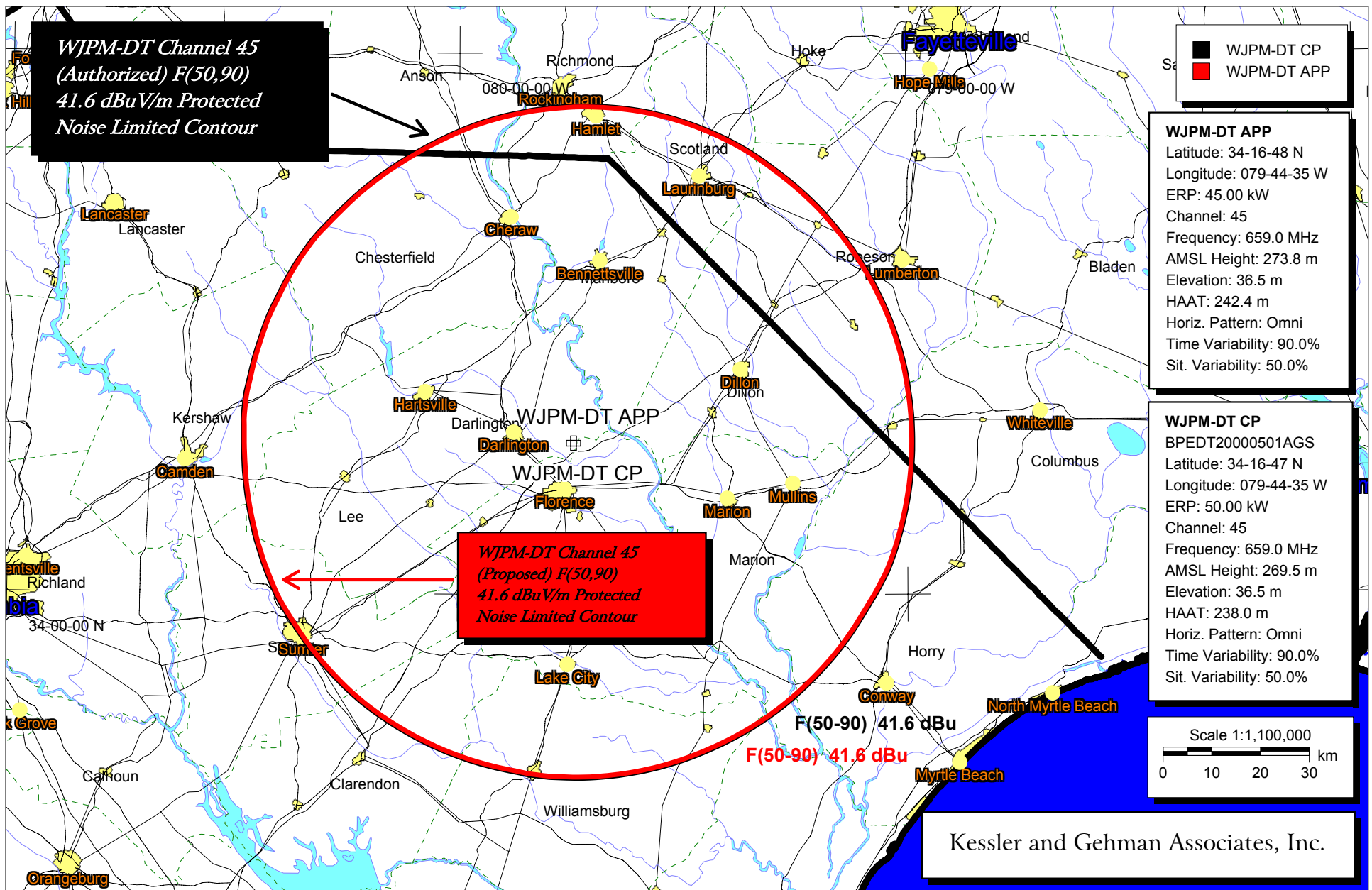
FLORENCE, SOUTH CAROLINA

20041213

EXHIBIT 7



WJPM-DT (APP) ENHANCED PRINCIPAL COMMUNITY CONTOUR



WJPM-DT (AUTHORIZED) CONTOUR vs. WJPM-DT (PROPOSED) CONTOUR

WJPM-DT Channel 45 (CP) Distance to Contour Tabulation

Transmitter Information:

Call Letters: WJPM-DT CP
File Number: BPEDT20000501AGS
Latitude: 34-16-47 N
Longitude: 079-44-35 W
ERP: 50.00 kW
Channel: 45
Frequency: 659.0 MHz
AMSL Height: 269.5 m
Elevation: 36.5 m
HAAT: 238.0 m
Horiz. Antenna Pattern: Omni

Type of curve: FCC
Location Variability: 50.0 %
Time Variability: 90.0 %
Field Strength: 41.60 dBuV/m

Primary Terrain: V-Soft US 3 Arc-Second Database
Secondary Terrain: V-Soft High Resolution Alaska Database

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	69.1	244.3
1.0	69.2	244.9
2.0	69.2	245.5
3.0	69.2	246.0
4.0	69.3	246.4
5.0	69.3	247.1
6.0	69.3	247.6
7.0	69.4	248.3
8.0	69.4	248.9
9.0	69.5	249.6
10.0	69.5	250.2
11.0	69.6	250.7
12.0	69.6	251.3
13.0	69.6	251.7
14.0	69.6	252.0
15.0	69.7	252.3
16.0	69.7	252.6
17.0	69.7	252.8
18.0	69.7	253.1
19.0	69.7	253.3
20.0	69.7	253.5
21.0	69.8	253.7
22.0	69.8	253.8
23.0	69.8	254.0
24.0	69.8	254.3
25.0	69.8	254.4
26.0	69.8	254.5
27.0	69.8	254.6
28.0	69.8	254.6
29.0	69.8	254.6
30.0	69.8	254.4

WJPM-DT Channel 45 (CP) Distance to Contour Tabulation

31.0	69.8	254.3
32.0	69.8	254.1
33.0	69.8	253.7
34.0	69.7	253.3
35.0	69.7	252.9
36.0	69.7	252.4
37.0	69.7	252.2
38.0	69.7	252.3
39.0	69.7	252.4
40.0	69.7	252.5
41.0	69.7	252.6
42.0	69.7	252.7
43.0	69.7	252.8
44.0	69.7	253.0
45.0	69.7	253.3
46.0	69.7	253.4
47.0	69.7	253.4
48.0	69.7	253.1
49.0	69.7	252.9
50.0	69.7	252.8
51.0	69.7	252.8
52.0	69.7	252.8
53.0	69.7	252.9
54.0	69.7	253.1
55.0	69.7	253.2
56.0	69.7	253.1
57.0	69.7	253.2
58.0	69.7	253.2
59.0	69.7	253.3
60.0	69.7	253.2
61.0	69.7	253.2
62.0	69.7	253.1
63.0	69.7	253.0
64.0	69.7	252.9
65.0	69.7	253.0
66.0	69.7	253.2
67.0	69.7	253.3
68.0	69.7	253.4
69.0	69.7	253.4
70.0	69.7	253.3
71.0	69.7	253.2
72.0	69.7	253.1
73.0	69.7	253.2
74.0	69.7	253.1
75.0	69.7	253.0
76.0	69.7	252.9
77.0	69.7	252.7
78.0	69.7	252.5
79.0	69.6	252.1
80.0	69.6	251.8
81.0	69.6	251.5
82.0	69.6	251.5
83.0	69.6	251.5
84.0	69.6	251.5
85.0	69.6	251.4
86.0	69.6	251.2
87.0	69.6	251.2

WJPM-DT Channel 45 (CP) Distance to Contour Tabulation

88.0	69.6	251.1
89.0	69.6	251.0
90.0	69.6	250.9
91.0	69.6	250.8
92.0	69.6	250.8
93.0	69.6	250.7
94.0	69.5	250.6
95.0	69.5	250.6
96.0	69.5	250.5
97.0	69.5	250.5
98.0	69.5	250.3
99.0	69.5	250.3
100.0	69.5	250.2
101.0	69.5	250.2
102.0	69.5	250.1
103.0	69.5	250.1
104.0	69.5	250.2
105.0	69.5	250.3
106.0	69.5	250.4
107.0	69.5	250.5
108.0	69.5	250.6
109.0	69.5	250.7
110.0	69.6	250.8
111.0	69.6	250.8
112.0	69.5	250.6
113.0	69.5	249.4
114.0	69.4	248.4
115.0	69.3	247.5
116.0	69.3	246.6
117.0	69.2	245.6
118.0	69.1	244.2
119.0	69.1	243.3
120.0	69.0	242.8
121.0	69.0	242.5
122.0	69.0	242.6
123.0	69.0	242.9
124.0	69.0	243.0
125.0	69.0	242.9
126.0	69.0	242.9
127.0	69.0	242.8
128.0	69.0	242.8
129.0	69.0	242.7
130.0	69.0	242.4
131.0	69.0	242.2
132.0	69.0	242.0
133.0	69.0	241.8
134.0	69.0	241.7
135.0	69.0	241.6
136.0	69.0	241.6
137.0	69.0	241.7
138.0	69.0	241.7
139.0	69.0	241.9
140.0	69.0	241.9
141.0	69.0	241.9
142.0	69.0	241.8
143.0	69.0	241.8
144.0	69.0	241.6

WJPM-DT Channel 45 (CP) Distance to Contour Tabulation

145.0	68.9	241.4
146.0	68.9	241.3
147.0	68.9	241.1
148.0	68.9	241.0
149.0	68.9	240.7
150.0	68.9	240.4
151.0	68.9	240.2
152.0	68.9	240.0
153.0	68.8	239.8
154.0	68.8	239.6
155.0	68.8	239.3
156.0	68.8	239.2
157.0	68.8	239.1
158.0	68.8	239.1
159.0	68.8	239.1
160.0	68.8	239.1
161.0	68.8	239.1
162.0	68.8	239.1
163.0	68.8	239.1
164.0	68.8	239.0
165.0	68.8	239.0
166.0	68.8	239.0
167.0	68.8	238.9
168.0	68.8	238.8
169.0	68.8	238.6
170.0	68.8	238.5
171.0	68.7	238.3
172.0	68.7	238.3
173.0	68.7	238.2
174.0	68.7	238.0
175.0	68.7	238.0
176.0	68.7	238.2
177.0	68.7	238.2
178.0	68.7	238.0
179.0	68.7	237.9
180.0	68.7	237.6
181.0	68.7	237.3
182.0	68.7	237.0
183.0	68.7	237.4
184.0	68.7	237.6
185.0	68.7	237.1
186.0	68.6	236.7
187.0	68.6	236.5
188.0	68.6	236.1
189.0	68.5	234.8
190.0	68.5	234.1
191.0	68.5	233.9
192.0	68.5	233.8
193.0	68.4	233.8
194.0	68.5	233.8
195.0	68.5	233.9
196.0	68.5	234.0
197.0	68.5	234.1
198.0	68.5	234.1
199.0	68.5	234.2
200.0	68.5	234.3
201.0	68.5	234.3

WJPM-DT Channel 45 (CP) Distance to Contour Tabulation

202.0	68.5	234.4
203.0	68.5	234.4
204.0	68.5	234.4
205.0	68.5	234.4
206.0	68.5	234.5
207.0	68.5	234.5
208.0	68.5	234.5
209.0	68.5	234.6
210.0	68.5	234.6
211.0	68.5	234.7
212.0	68.5	234.9
213.0	68.5	235.1
214.0	68.5	235.2
215.0	68.6	235.4
216.0	68.6	235.6
217.0	68.6	235.8
218.0	68.6	235.9
219.0	68.6	235.9
220.0	68.6	235.8
221.0	68.6	235.7
222.0	68.6	235.6
223.0	68.5	235.2
224.0	68.5	234.9
225.0	68.5	234.6
226.0	68.5	234.3
227.0	68.5	234.0
228.0	68.5	233.8
229.0	68.4	233.7
230.0	68.4	233.7
231.0	68.4	233.7
232.0	68.4	233.5
233.0	68.4	233.1
234.0	68.4	232.6
235.0	68.3	232.2
236.0	68.3	232.0
237.0	68.3	231.9
238.0	68.3	232.0
239.0	68.3	232.1
240.0	68.4	232.5
241.0	68.4	232.8
242.0	68.4	233.1
243.0	68.4	233.0
244.0	68.3	232.2
245.0	68.3	231.2
246.0	68.2	230.5
247.0	68.2	230.0
248.0	68.2	229.6
249.0	68.1	229.1
250.0	68.1	228.4
251.0	68.0	227.5
252.0	68.0	227.3
253.0	68.0	226.9
254.0	68.0	226.3
255.0	67.9	225.5
256.0	67.9	224.9
257.0	67.9	224.7
258.0	67.8	224.4

WJPM-DT Channel 45 (CP) Distance to Contour Tabulation

259.0	67.8	224.1
260.0	67.8	223.7
261.0	67.8	223.3
262.0	67.8	223.0
263.0	67.7	222.7
264.0	67.7	222.4
265.0	67.7	222.1
266.0	67.7	221.9
267.0	67.7	221.7
268.0	67.7	221.7
269.0	67.7	221.8
270.0	67.7	222.1
271.0	67.7	222.5
272.0	67.7	222.9
273.0	67.8	223.7
274.0	67.9	225.1
275.0	67.9	225.8
276.0	67.9	225.9
277.0	68.0	226.2
278.0	68.0	226.5
279.0	68.0	226.2
280.0	67.9	225.0
281.0	67.8	223.8
282.0	67.8	223.3
283.0	67.8	223.2
284.0	67.8	223.1
285.0	67.8	223.1
286.0	67.8	222.9
287.0	67.7	222.7
288.0	67.7	222.5
289.0	67.7	222.6
290.0	67.7	222.8
291.0	67.8	223.3
292.0	67.8	223.7
293.0	67.8	223.6
294.0	67.8	223.2
295.0	67.7	222.6
296.0	67.7	222.0
297.0	67.7	222.3
298.0	67.7	222.6
299.0	67.8	223.1
300.0	67.8	223.5
301.0	67.8	223.9
302.0	67.8	224.0
303.0	67.8	224.2
304.0	67.8	224.4
305.0	67.9	224.5
306.0	67.8	224.4
307.0	67.9	224.6
308.0	67.9	224.7
309.0	67.8	224.2
310.0	67.8	223.5
311.0	67.7	222.3
312.0	67.7	221.4
313.0	67.6	220.9
314.0	67.6	220.6
315.0	67.6	220.3

WJPM-DT Channel 45 (CP) Distance to Contour Tabulation

316.0	67.6	220.4
317.0	67.6	220.5
318.0	67.6	220.6
319.0	67.6	220.7
320.0	67.6	220.8
321.0	67.6	221.0
322.0	67.6	221.0
323.0	67.6	221.1
324.0	67.6	221.2
325.0	67.7	221.4
326.0	67.7	221.6
327.0	67.7	221.8
328.0	67.7	221.9
329.0	67.7	222.1
330.0	67.7	222.5
331.0	67.8	223.1
332.0	67.8	223.5
333.0	67.8	224.1
334.0	67.9	224.7
335.0	67.9	225.2
336.0	67.9	225.9
337.0	68.0	226.6
338.0	68.1	227.6
339.0	68.1	228.7
340.0	68.2	229.6
341.0	68.2	230.6
342.0	68.3	231.5
343.0	68.4	232.5
344.0	68.4	233.3
345.0	68.5	234.1
346.0	68.5	234.8
347.0	68.6	235.5
348.0	68.6	236.2
349.0	68.6	236.7
350.0	68.7	237.2
351.0	68.7	237.7
352.0	68.8	238.5
353.0	68.8	239.2
354.0	68.8	239.7
355.0	68.9	240.3
356.0	68.9	241.0
357.0	69.0	241.6
358.0	69.0	242.4
359.0	69.1	243.3

WJPM-DT Channel 23 (Proposed) Distance to Contour Tabulation

Transmitter Information:

Call Letters: WJPM-DT APP
Latitude: 34-16-48 N
Longitude: 079-44-35 W
ERP: 45.00 kW
Channel: 45
Frequency: 659.0 MHz
AMSL Height: 273.8 m
Elevation: 36.5 m
HAAT: 242.4 m
Horiz. Antenna Pattern: Omni

Type of curve: FCC
Location Variability: 50.0 %
Time Variability: 90.0 %
Field Strength: 41.60 dBuV/m

Primary Terrain: V-Soft US 3 Arc-Second Database
Secondary Terrain: V-Soft High Resolution Alaska Database

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	68.9	248.6
1.0	69.0	249.3
2.0	69.0	249.8
3.0	69.0	250.3
4.0	69.1	250.8
5.0	69.1	251.5
6.0	69.1	251.9
7.0	69.2	252.6
8.0	69.2	253.2
9.0	69.3	253.9
10.0	69.3	254.5
11.0	69.3	255.0
12.0	69.4	255.6
13.0	69.4	256.0
14.0	69.4	256.3
15.0	69.4	256.6
16.0	69.5	256.9
17.0	69.5	257.1
18.0	69.5	257.4
19.0	69.5	257.6
20.0	69.5	257.8
21.0	69.5	258.0
22.0	69.5	258.1
23.0	69.6	258.3
24.0	69.6	258.6
25.0	69.6	258.7
26.0	69.6	258.8
27.0	69.6	258.9
28.0	69.6	258.9
29.0	69.6	258.9
30.0	69.6	258.7
31.0	69.6	258.6

WJPM-DT Channel 23 (Proposed) Distance to Contour Tabulation

32.0	69.6	258.4
33.0	69.5	258.0
34.0	69.5	257.6
35.0	69.5	257.2
36.0	69.5	256.8
37.0	69.4	256.5
38.0	69.4	256.5
39.0	69.5	256.7
40.0	69.5	256.8
41.0	69.5	256.9
42.0	69.5	257.0
43.0	69.5	257.1
44.0	69.5	257.3
45.0	69.5	257.5
46.0	69.5	257.7
47.0	69.5	257.7
48.0	69.5	257.4
49.0	69.5	257.2
50.0	69.5	257.1
51.0	69.5	257.1
52.0	69.5	257.1
53.0	69.5	257.2
54.0	69.5	257.4
55.0	69.5	257.5
56.0	69.5	257.4
57.0	69.5	257.5
58.0	69.5	257.5
59.0	69.5	257.6
60.0	69.5	257.5
61.0	69.5	257.5
62.0	69.5	257.5
63.0	69.5	257.3
64.0	69.5	257.2
65.0	69.5	257.3
66.0	69.5	257.5
67.0	69.5	257.6
68.0	69.5	257.7
69.0	69.5	257.7
70.0	69.5	257.6
71.0	69.5	257.5
72.0	69.5	257.4
73.0	69.5	257.5
74.0	69.5	257.4
75.0	69.5	257.3
76.0	69.5	257.2
77.0	69.5	257.1
78.0	69.5	256.9
79.0	69.4	256.5
80.0	69.4	256.1
81.0	69.4	255.8
82.0	69.4	255.8
83.0	69.4	255.8
84.0	69.4	255.8
85.0	69.4	255.8
86.0	69.4	255.6
87.0	69.4	255.5
88.0	69.4	255.5

WJPM-DT Channel 23 (Proposed) Distance to Contour Tabulation

89.0	69.4	255.4
90.0	69.4	255.2
91.0	69.3	255.1
92.0	69.3	255.1
93.0	69.3	255.0
94.0	69.3	254.9
95.0	69.3	254.9
96.0	69.3	254.9
97.0	69.3	254.8
98.0	69.3	254.6
99.0	69.3	254.6
100.0	69.3	254.5
101.0	69.3	254.6
102.0	69.3	254.5
103.0	69.3	254.4
104.0	69.3	254.5
105.0	69.3	254.6
106.0	69.3	254.7
107.0	69.3	254.8
108.0	69.3	254.9
109.0	69.3	254.9
110.0	69.3	255.1
111.0	69.3	255.1
112.0	69.3	254.9
113.0	69.3	253.9
114.0	69.2	252.8
115.0	69.1	251.9
116.0	69.1	251.1
117.0	69.0	250.1
118.0	68.9	248.6
119.0	68.9	247.7
120.0	68.8	247.2
121.0	68.8	246.9
122.0	68.8	246.9
123.0	68.8	247.2
124.0	68.8	247.3
125.0	68.8	247.3
126.0	68.8	247.2
127.0	68.8	247.2
128.0	68.8	247.1
129.0	68.8	247.0
130.0	68.8	246.8
131.0	68.8	246.6
132.0	68.8	246.4
133.0	68.8	246.2
134.0	68.7	246.0
135.0	68.7	245.9
136.0	68.7	245.9
137.0	68.7	246.0
138.0	68.7	246.0
139.0	68.8	246.2
140.0	68.8	246.2
141.0	68.8	246.1
142.0	68.8	246.1
143.0	68.7	246.1
144.0	68.7	245.9
145.0	68.7	245.7

WJPM-DT Channel 23 (Proposed) Distance to Contour Tabulation

146.0	68.7	245.6
147.0	68.7	245.4
148.0	68.7	245.3
149.0	68.7	245.0
150.0	68.7	244.7
151.0	68.6	244.5
152.0	68.6	244.3
153.0	68.6	244.1
154.0	68.6	243.9
155.0	68.6	243.6
156.0	68.6	243.5
157.0	68.6	243.4
158.0	68.6	243.4
159.0	68.6	243.4
160.0	68.6	243.4
161.0	68.6	243.4
162.0	68.6	243.4
163.0	68.6	243.4
164.0	68.6	243.3
165.0	68.6	243.3
166.0	68.6	243.3
167.0	68.6	243.2
168.0	68.6	243.1
169.0	68.5	242.9
170.0	68.5	242.8
171.0	68.5	242.6
172.0	68.5	242.6
173.0	68.5	242.5
174.0	68.5	242.3
175.0	68.5	242.3
176.0	68.5	242.5
177.0	68.5	242.5
178.0	68.5	242.3
179.0	68.5	242.2
180.0	68.5	241.9
181.0	68.5	241.6
182.0	68.4	241.2
183.0	68.5	241.7
184.0	68.5	241.9
185.0	68.4	241.4
186.0	68.4	241.0
187.0	68.4	240.7
188.0	68.4	240.4
189.0	68.3	239.1
190.0	68.3	238.4
191.0	68.2	238.2
192.0	68.2	238.1
193.0	68.2	238.1
194.0	68.2	238.2
195.0	68.2	238.3
196.0	68.2	238.3
197.0	68.3	238.4
198.0	68.3	238.5
199.0	68.3	238.5
200.0	68.3	238.6
201.0	68.3	238.7
202.0	68.3	238.7

WJPM-DT Channel 23 (Proposed) Distance to Contour Tabulation

203.0	68.3	238.7
204.0	68.3	238.7
205.0	68.3	238.8
206.0	68.3	238.8
207.0	68.3	238.8
208.0	68.3	238.9
209.0	68.3	238.9
210.0	68.3	238.9
211.0	68.3	239.0
212.0	68.3	239.2
213.0	68.3	239.4
214.0	68.3	239.5
215.0	68.3	239.7
216.0	68.3	239.9
217.0	68.4	240.1
218.0	68.4	240.2
219.0	68.4	240.2
220.0	68.4	240.1
221.0	68.4	240.1
222.0	68.3	239.8
223.0	68.3	239.4
224.0	68.3	239.2
225.0	68.3	238.9
226.0	68.3	238.6
227.0	68.2	238.3
228.0	68.2	238.1
229.0	68.2	238.0
230.0	68.2	238.0
231.0	68.2	238.0
232.0	68.2	237.8
233.0	68.2	237.3
234.0	68.2	236.9
235.0	68.1	236.5
236.0	68.1	236.3
237.0	68.1	236.3
238.0	68.1	236.3
239.0	68.1	236.5
240.0	68.2	236.8
241.0	68.2	237.2
242.0	68.2	237.5
243.0	68.2	237.2
244.0	68.1	236.4
245.0	68.1	235.4
246.0	68.0	234.7
247.0	68.0	234.2
248.0	68.0	233.8
249.0	67.9	233.3
250.0	67.9	232.6
251.0	67.8	231.7
252.0	67.8	231.5
253.0	67.8	231.2
254.0	67.7	230.5
255.0	67.7	229.7
256.0	67.7	229.1
257.0	67.7	229.0
258.0	67.6	228.7
259.0	67.6	228.3

WJPM-DT Channel 23 (Proposed) Distance to Contour Tabulation

260.0	67.6	228.0
261.0	67.6	227.6
262.0	67.5	227.3
263.0	67.5	227.0
264.0	67.5	226.6
265.0	67.5	226.4
266.0	67.5	226.1
267.0	67.5	226.0
268.0	67.5	226.0
269.0	67.5	226.1
270.0	67.5	226.4
271.0	67.5	226.8
272.0	67.5	227.3
273.0	67.6	228.2
274.0	67.7	229.5
275.0	67.7	230.2
276.0	67.7	230.2
277.0	67.7	230.5
278.0	67.8	230.7
279.0	67.7	230.3
280.0	67.7	229.0
281.0	67.6	228.0
282.0	67.6	227.5
283.0	67.5	227.4
284.0	67.5	227.4
285.0	67.5	227.4
286.0	67.5	227.1
287.0	67.5	226.9
288.0	67.5	226.8
289.0	67.5	226.8
290.0	67.5	227.1
291.0	67.6	227.7
292.0	67.6	228.0
293.0	67.6	227.8
294.0	67.5	227.4
295.0	67.5	226.8
296.0	67.5	226.3
297.0	67.5	226.6
298.0	67.5	227.0
299.0	67.6	227.5
300.0	67.6	227.8
301.0	67.6	228.3
302.0	67.6	228.4
303.0	67.6	228.5
304.0	67.6	228.8
305.0	67.6	228.8
306.0	67.6	228.7
307.0	67.6	228.9
308.0	67.6	229.0
309.0	67.6	228.5
310.0	67.6	227.7
311.0	67.5	226.5
312.0	67.4	225.6
313.0	67.4	225.2
314.0	67.4	224.8
315.0	67.4	224.6
316.0	67.4	224.7

WJPM-DT Channel 23 (Proposed) Distance to Contour Tabulation

317.0	67.4	224.8
318.0	67.4	224.9
319.0	67.4	225.0
320.0	67.4	225.1
321.0	67.4	225.2
322.0	67.4	225.3
323.0	67.4	225.3
324.0	67.4	225.5
325.0	67.4	225.7
326.0	67.5	225.9
327.0	67.5	226.1
328.0	67.5	226.1
329.0	67.5	226.4
330.0	67.5	226.8
331.0	67.5	227.4
332.0	67.6	227.8
333.0	67.6	228.4
334.0	67.6	229.0
335.0	67.7	229.6
336.0	67.7	230.2
337.0	67.8	231.0
338.0	67.8	232.0
339.0	67.9	233.1
340.0	68.0	233.9
341.0	68.0	235.0
342.0	68.1	235.9
343.0	68.2	236.8
344.0	68.2	237.6
345.0	68.3	238.4
346.0	68.3	239.1
347.0	68.3	239.8
348.0	68.4	240.5
349.0	68.4	241.0
350.0	68.5	241.6
351.0	68.5	242.0
352.0	68.5	242.8
353.0	68.6	243.5
354.0	68.6	244.1
355.0	68.7	244.6
356.0	68.7	245.4
357.0	68.7	246.0
358.0	68.8	246.8
359.0	68.9	247.7

WJPM-TV (License vs. Proposed) Distance to Contour Comparison Chart

Radial	WJPM-TV LIC distance to contours (km)	WJPM-TV APP distance to contours (km)	PASS OR FAIL	Difference (km)
0	63.2	63.2	PASS	0.0
1	63.2	63.2	PASS	0.0
2	63.3	63.3	PASS	0.0
3	63.3	63.3	PASS	0.0
4	63.3	63.3	PASS	0.0
5	63.4	63.4	PASS	0.0
6	63.4	63.4	PASS	0.0
7	63.4	63.4	PASS	0.0
8	63.5	63.5	PASS	0.0
9	63.5	63.5	PASS	0.0
10	63.6	63.6	PASS	0.0
11	63.6	63.6	PASS	0.0
12	63.7	63.6	PASS	0.1
13	63.7	63.7	PASS	0.0
14	63.7	63.7	PASS	0.0
15	63.7	63.7	PASS	0.0
16	63.8	63.7	PASS	0.1
17	63.8	63.8	PASS	0.0
18	63.8	63.8	PASS	0.0
19	63.8	63.8	PASS	0.0
20	63.8	63.8	PASS	0.0
21	63.8	63.8	PASS	0.0
22	63.8	63.8	PASS	0.0
23	63.9	63.8	PASS	0.1
24	63.9	63.9	PASS	0.0
25	63.9	63.9	PASS	0.0
26	63.9	63.9	PASS	0.0
27	63.9	63.9	PASS	0.0
28	63.9	63.9	PASS	0.0
29	63.9	63.9	PASS	0.0
30	63.9	63.9	PASS	0.0
31	63.9	63.9	PASS	0.0
32	63.9	63.8	PASS	0.1
33	63.8	63.8	PASS	0.0
34	63.8	63.8	PASS	0.0
35	63.8	63.8	PASS	0.0
36	63.8	63.7	PASS	0.1
37	63.7	63.7	PASS	0.0
38	63.7	63.7	PASS	0.0

WJPM-TV (License vs. Proposed) Distance to Contour Comparison Chart

39	63.8	63.7	PASS	0.1
40	63.8	63.7	PASS	0.1
41	63.8	63.7	PASS	0.1
42	63.8	63.7	PASS	0.1
43	63.8	63.8	PASS	0.0
44	63.8	63.8	PASS	0.0
45	63.8	63.8	PASS	0.0
46	63.8	63.8	PASS	0.0
47	63.8	63.8	PASS	0.0
48	63.8	63.8	PASS	0.0
49	63.8	63.8	PASS	0.0
50	63.8	63.8	PASS	0.0
51	63.8	63.8	PASS	0.0
52	63.8	63.8	PASS	0.0
53	63.8	63.8	PASS	0.0
54	63.8	63.8	PASS	0.0
55	63.8	63.8	PASS	0.0
56	63.8	63.8	PASS	0.0
57	63.8	63.8	PASS	0.0
58	63.8	63.8	PASS	0.0
59	63.8	63.8	PASS	0.0
60	63.8	63.8	PASS	0.0
61	63.8	63.8	PASS	0.0
62	63.8	63.8	PASS	0.0
63	63.8	63.8	PASS	0.0
64	63.8	63.8	PASS	0.0
65	63.8	63.8	PASS	0.0
66	63.8	63.8	PASS	0.0
67	63.8	63.8	PASS	0.0
68	63.8	63.8	PASS	0.0
69	63.8	63.8	PASS	0.0
70	63.8	63.8	PASS	0.0
71	63.8	63.8	PASS	0.0
72	63.8	63.8	PASS	0.0
73	63.8	63.8	PASS	0.0
74	63.8	63.8	PASS	0.0
75	63.8	63.8	PASS	0.0
76	63.8	63.8	PASS	0.0
77	63.8	63.7	PASS	0.1
78	63.8	63.7	PASS	0.1
79	63.7	63.7	PASS	0.0
80	63.7	63.7	PASS	0.0

WJPM-TV (License vs. Proposed) Distance to Contour Comparison Chart

81	63.7	63.7	PASS	0.0
82	63.7	63.7	PASS	0.0
83	63.7	63.7	PASS	0.0
84	63.7	63.7	PASS	0.0
85	63.7	63.7	PASS	0.0
86	63.7	63.6	PASS	0.1
87	63.7	63.6	PASS	0.1
88	63.7	63.6	PASS	0.1
89	63.6	63.6	PASS	0.0
90	63.6	63.6	PASS	0.0
91	63.6	63.6	PASS	0.0
92	63.6	63.6	PASS	0.0
93	63.6	63.6	PASS	0.0
94	63.6	63.6	PASS	0.0
95	63.6	63.6	PASS	0.0
96	63.6	63.6	PASS	0.0
97	63.6	63.6	PASS	0.0
98	63.6	63.6	PASS	0.0
99	63.6	63.6	PASS	0.0
100	63.6	63.6	PASS	0.0
101	63.6	63.6	PASS	0.0
102	63.6	63.6	PASS	0.0
103	63.6	63.6	PASS	0.0
104	63.6	63.6	PASS	0.0
105	63.6	63.6	PASS	0.0
106	63.6	63.6	PASS	0.0
107	63.6	63.6	PASS	0.0
108	63.6	63.6	PASS	0.0
109	63.6	63.6	PASS	0.0
110	63.6	63.6	PASS	0.0
111	63.6	63.6	PASS	0.0
112	63.6	63.6	PASS	0.0
113	63.5	63.5	PASS	0.0
114	63.5	63.4	PASS	0.1
115	63.4	63.4	PASS	0.0
116	63.3	63.3	PASS	0.0
117	63.3	63.3	PASS	0.0
118	63.2	63.2	PASS	0.0
119	63.1	63.1	PASS	0.0
120	63.1	63.1	PASS	0.0
121	63.1	63.0	PASS	0.1
122	63.1	63.1	PASS	0.0

WJPM-TV (License vs. Proposed) Distance to Contour Comparison Chart

123	63.1	63.1	PASS	0.0
124	63.1	63.1	PASS	0.0
125	63.1	63.1	PASS	0.0
126	63.1	63.1	PASS	0.0
127	63.1	63.1	PASS	0.0
128	63.1	63.1	PASS	0.0
129	63.1	63.1	PASS	0.0
130	63.1	63.0	PASS	0.1
131	63.0	63.0	PASS	0.0
132	63.0	63.0	PASS	0.0
133	63.0	63.0	PASS	0.0
134	63.0	63.0	PASS	0.0
135	63.0	63.0	PASS	0.0
136	63.0	63.0	PASS	0.0
137	63.0	63.0	PASS	0.0
138	63.0	63.0	PASS	0.0
139	63.0	63.0	PASS	0.0
140	63.0	63.0	PASS	0.0
141	63.0	63.0	PASS	0.0
142	63.0	63.0	PASS	0.0
143	63.0	63.0	PASS	0.0
144	63.0	63.0	PASS	0.0
145	63.0	63.0	PASS	0.0
146	63.0	63.0	PASS	0.0
147	63.0	63.0	PASS	0.0
148	63.0	62.9	PASS	0.1
149	62.9	62.9	PASS	0.0
150	62.9	62.9	PASS	0.0
151	62.9	62.9	PASS	0.0
152	62.9	62.9	PASS	0.0
153	62.9	62.9	PASS	0.0
154	62.9	62.8	PASS	0.1
155	62.9	62.8	PASS	0.1
156	62.8	62.8	PASS	0.0
157	62.8	62.8	PASS	0.0
158	62.8	62.8	PASS	0.0
159	62.8	62.8	PASS	0.0
160	62.8	62.8	PASS	0.0
161	62.8	62.8	PASS	0.0
162	62.8	62.8	PASS	0.0
163	62.8	62.8	PASS	0.0
164	62.8	62.8	PASS	0.0

WJPM-TV (License vs. Proposed) Distance to Contour Comparison Chart

165	62.8	62.8	PASS	0.0
166	62.8	62.8	PASS	0.0
167	62.8	62.8	PASS	0.0
168	62.8	62.8	PASS	0.0
169	62.8	62.8	PASS	0.0
170	62.8	62.8	PASS	0.0
171	62.8	62.8	PASS	0.0
172	62.8	62.8	PASS	0.0
173	62.8	62.8	PASS	0.0
174	62.8	62.7	PASS	0.1
175	62.8	62.7	PASS	0.1
176	62.8	62.8	PASS	0.0
177	62.8	62.8	PASS	0.0
178	62.8	62.7	PASS	0.1
179	62.7	62.7	PASS	0.0
180	62.7	62.7	PASS	0.0
181	62.7	62.7	PASS	0.0
182	62.7	62.7	PASS	0.0
183	62.7	62.7	PASS	0.0
184	62.7	62.7	PASS	0.0
185	62.7	62.7	PASS	0.0
186	62.7	62.7	PASS	0.0
187	62.7	62.6	PASS	0.1
188	62.6	62.6	PASS	0.0
189	62.5	62.5	PASS	0.0
190	62.5	62.5	PASS	0.0
191	62.5	62.5	PASS	0.0
192	62.5	62.5	PASS	0.0
193	62.5	62.4	PASS	0.1
194	62.5	62.5	PASS	0.0
195	62.5	62.5	PASS	0.0
196	62.5	62.5	PASS	0.0
197	62.5	62.5	PASS	0.0
198	62.5	62.5	PASS	0.0
199	62.5	62.5	PASS	0.0
200	62.5	62.5	PASS	0.0
201	62.5	62.5	PASS	0.0
202	62.5	62.5	PASS	0.0
203	62.5	62.5	PASS	0.0
204	62.5	62.5	PASS	0.0
205	62.5	62.5	PASS	0.0
206	62.5	62.5	PASS	0.0

WJPM-TV (License vs. Proposed) Distance to Contour Comparison Chart

207	62.5	62.5	PASS	0.0
208	62.5	62.5	PASS	0.0
209	62.5	62.5	PASS	0.0
210	62.5	62.5	PASS	0.0
211	62.5	62.5	PASS	0.0
212	62.5	62.5	PASS	0.0
213	62.6	62.5	PASS	0.1
214	62.6	62.5	PASS	0.1
215	62.6	62.6	PASS	0.0
216	62.6	62.6	PASS	0.0
217	62.6	62.6	PASS	0.0
218	62.6	62.6	PASS	0.0
219	62.6	62.6	PASS	0.0
220	62.6	62.6	PASS	0.0
221	62.6	62.6	PASS	0.0
222	62.6	62.6	PASS	0.0
223	62.6	62.5	PASS	0.1
224	62.5	62.5	PASS	0.0
225	62.5	62.5	PASS	0.0
226	62.5	62.5	PASS	0.0
227	62.5	62.5	PASS	0.0
228	62.5	62.5	PASS	0.0
229	62.5	62.4	PASS	0.1
230	62.5	62.4	PASS	0.1
231	62.5	62.4	PASS	0.1
232	62.5	62.4	PASS	0.1
233	62.4	62.4	PASS	0.0
234	62.4	62.4	PASS	0.0
235	62.4	62.3	PASS	0.1
236	62.3	62.3	PASS	0.0
237	62.3	62.3	PASS	0.0
238	62.3	62.3	PASS	0.0
239	62.4	62.3	PASS	0.1
240	62.4	62.4	PASS	0.0
241	62.4	62.4	PASS	0.0
242	62.4	62.4	PASS	0.0
243	62.4	62.4	PASS	0.0
244	62.4	62.3	PASS	0.1
245	62.3	62.3	PASS	0.0
246	62.2	62.2	PASS	0.0
247	62.2	62.2	PASS	0.0
248	62.2	62.2	PASS	0.0

WJPM-TV (License vs. Proposed) Distance to Contour Comparison Chart

249	62.1	62.1	PASS	0.0
250	62.1	62.1	PASS	0.0
251	62.0	62.0	PASS	0.0
252	62.0	62.0	PASS	0.0
253	62.0	62.0	PASS	0.0
254	62.0	61.9	PASS	0.1
255	61.9	61.9	PASS	0.0
256	61.9	61.8	PASS	0.1
257	61.8	61.8	PASS	0.0
258	61.8	61.8	PASS	0.0
259	61.8	61.8	PASS	0.0
260	61.8	61.8	PASS	0.0
261	61.8	61.7	PASS	0.1
262	61.7	61.7	PASS	0.0
263	61.7	61.7	PASS	0.0
264	61.7	61.7	PASS	0.0
265	61.7	61.7	PASS	0.0
266	61.7	61.6	PASS	0.1
267	61.6	61.6	PASS	0.0
268	61.6	61.6	PASS	0.0
269	61.6	61.6	PASS	0.0
270	61.7	61.6	PASS	0.1
271	61.7	61.7	PASS	0.0
272	61.7	61.7	PASS	0.0
273	61.8	61.8	PASS	0.0
274	61.9	61.9	PASS	0.0
275	61.9	61.9	PASS	0.0
276	61.9	61.9	PASS	0.0
277	61.9	61.9	PASS	0.0
278	62.0	61.9	PASS	0.1
279	62.0	61.9	PASS	0.1
280	61.9	61.8	PASS	0.1
281	61.8	61.8	PASS	0.0
282	61.8	61.7	PASS	0.1
283	61.7	61.7	PASS	0.0
284	61.7	61.7	PASS	0.0
285	61.7	61.7	PASS	0.0
286	61.7	61.7	PASS	0.0
287	61.7	61.7	PASS	0.0
288	61.7	61.7	PASS	0.0
289	61.7	61.7	PASS	0.0
290	61.7	61.7	PASS	0.0

WJPM-TV (License vs. Proposed) Distance to Contour Comparison Chart

291	61.8	61.7	PASS	0.1
292	61.8	61.8	PASS	0.0
293	61.8	61.7	PASS	0.1
294	61.8	61.7	PASS	0.1
295	61.7	61.7	PASS	0.0
296	61.7	61.6	PASS	0.1
297	61.7	61.7	PASS	0.0
298	61.7	61.7	PASS	0.0
299	61.7	61.7	PASS	0.0
300	61.8	61.7	PASS	0.1
301	61.8	61.8	PASS	0.0
302	61.8	61.8	PASS	0.0
303	61.8	61.8	PASS	0.0
304	61.8	61.8	PASS	0.0
305	61.8	61.8	PASS	0.0
306	61.8	61.8	PASS	0.0
307	61.8	61.8	PASS	0.0
308	61.9	61.8	PASS	0.1
309	61.8	61.8	PASS	0.0
310	61.8	61.7	PASS	0.1
311	61.7	61.7	PASS	0.0
312	61.6	61.6	PASS	0.0
313	61.6	61.6	PASS	0.0
314	61.6	61.5	PASS	0.1
315	61.6	61.5	PASS	0.1
316	61.5	61.5	PASS	0.0
317	61.6	61.5	PASS	0.1
318	61.6	61.5	PASS	0.1
319	61.6	61.6	PASS	0.0
320	61.6	61.6	PASS	0.0
321	61.6	61.6	PASS	0.0
322	61.6	61.6	PASS	0.0
323	61.6	61.6	PASS	0.0
324	61.6	61.6	PASS	0.0
325	61.6	61.6	PASS	0.0
326	61.6	61.6	PASS	0.0
327	61.6	61.6	PASS	0.0
328	61.7	61.6	PASS	0.1
329	61.7	61.6	PASS	0.1
330	61.7	61.7	PASS	0.0
331	61.7	61.7	PASS	0.0
332	61.8	61.7	PASS	0.1

WJPM-TV (License vs. Proposed) Distance to Contour Comparison Chart

333	61.8	61.8	PASS	0.0
334	61.8	61.8	PASS	0.0
335	61.9	61.9	PASS	0.0
336	61.9	61.9	PASS	0.0
337	62.0	62.0	PASS	0.0
338	62.0	62.0	PASS	0.0
339	62.1	62.1	PASS	0.0
340	62.2	62.2	PASS	0.0
341	62.2	62.2	PASS	0.0
342	62.3	62.3	PASS	0.0
343	62.4	62.4	PASS	0.0
344	62.4	62.4	PASS	0.0
345	62.5	62.5	PASS	0.0
346	62.5	62.5	PASS	0.0
347	62.6	62.6	PASS	0.0
348	62.6	62.6	PASS	0.0
349	62.7	62.6	PASS	0.1
350	62.7	62.7	PASS	0.0
351	62.7	62.7	PASS	0.0
352	62.8	62.8	PASS	0.0
353	62.8	62.8	PASS	0.0
354	62.9	62.9	PASS	0.0
355	62.9	62.9	PASS	0.0
356	62.9	62.9	PASS	0.0
357	63.0	63.0	PASS	0.0
358	63.0	63.0	PASS	0.0
359	63.1	63.1	PASS	0.0



Study (ASN): 2004-ASO-3892-OE
Prior Study: [1998-ASO-3419-OE](#)
Status: Determined

Received: 07/07/2004
Entered: 07/07/2004
Completed: 08/05/2004

Sponsor:	SOUTH CAROLINA EDUCATIONAL TELEVISION COMM.
Attention Of:	HAP GRIFFIN
Address:	1101 GEORGE ROGERS BLVD
City:	COLUMBIA
State:	SC
Postal Code:	29201
Country:	USA

Representative:	WILLIAM GODFREY JR
Attention Of:	KESSLER AND GEHMAN
Address:	507 NW 60TH STREET, STE C
City:	GAINESVILLE
State:	FL
Postal Code:	32607-2702
Country:	USA

Notice Of:	Alteration	Months:	0	Days:	0
Duration:	Permanent				

Beginning: **End:**

Latitude:	34-16-48.1 N
Longitude:	79-44-34.4 W
Datum:	NAD 83
Accuracy:	
Other:	

Marking/Lighting:	Red lights and paint
Other Description:	
Description:	

FCC Number: 1059180

Structure Type:	Antenna Tower
Other Description:	

	Proposed	DNE	DET
Site Elevation:	120		
Structure Height:	810	0	810
Total Altitude from Mean Sea Level:	930	0	930

Low Freq.	High Freq.	Unit	ERP	Unit
584	0	MHz	641	KW
656	0	MHz	109	KW

Name:	
NACO Number:	41-0186
City:	QUINBY
State:	SC
Nearest Airport:	FLO
Description of Location:	
Distance (ARP) to structure (feet):	34,928.80
On Airport:	No
Direction to structure:	350.54
Traverseway:	NO

Finished Date: 08/05/2004

Submitted:

Expiration Date: 02/05/2006

Date Built: 11/08/2004

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