

WACG-FM CHANNEL 214 (90.7 MHz)  
CLASS C2 MINOR CHANGE IN  
LICENSE APPLICATION  
*AUGUSTA, GEORGIA*  
(GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION)

KESSLER AND GEHMAN ASSOCIATES, INC.  
TELECOMMUNICATIONS CONSULTING ENGINEERS

20090506

*Prepared by William T. Godfrey, Jr.*

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Telecommunications Consulting Engineers

**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 CHANGE IN LICENSED FACILITY APPLICATION TO MAKE CHANGES TO THE GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION (GPTC) LICENSE (BLED-19890911KC) FOR THE WACG-FM CHANNEL 214 C2, AUGUSTA, GEORGIA NON-COMMERCIAL EDUCATIONAL FM BROADCAST FACILITY.**

The firm Kessler and Gehman Associates, Inc., has been retained by the Georgia Public Telecommunications Commission (GPTC), Atlanta, Georgia, to prepare engineering studies and the engineering portion of a minor change in licensed facility application for the licensed WACG-FM Channel 214 C2 Non-Commercial Educational FM (NCE-FM) broadcast facility (BLED-19890911KC) requesting authorization to make changes to the following: 1) transmitter site; 2) Effective Radiated Power (ERP); 3) antenna height radiation center; and 4) polarization.

**Discussion**

GPTC is licensed to operate WACG-FM Channel 214 C2 with an ERP of 25 kW (circular polarization) at an antenna height radiation center of 83.0 meters Above Ground Level (AGL) using a nondirectional Jampro antenna which is side-mounted on a tower owned by Media General Communications Holdings. GPTC is the licensee of seventeen full-service FM stations of which, the following are collocated with GPTC full-service television stations on GPTC-owned towers: 1) WJSP-FM on WJSP-TV tower; 2) WMUM-FM on WMUM-TV tower; 3) WNGH-FM on WCLP-TV tower; 4) WSVH-FM on WVAN-TV tower; and 5) WXVS-FM on WXGA-TV tower. GPTC proposes to do the same thing with its WACG-FM facility by moving it approximately 44 km SW to its WCES-TV tower. The Media General tower is located in SC and over 50% of the WACG-FM coverage is in SC. Moving WACG-FM to the WCES-TV tower would serve the public's best interest by: 1) eliminating a huge monthly fee paid to Media General using tax dollars for leasing tower space on the Media General tower; 2) better serving the Georgia public by improving coverage in the state of Georgia; 3) saving tax dollars by



maintaining one engineer at the WCES site instead of possibly maintaining an engineer at the WCES site and another at the Media General site in SC; and 4) improving the response time if and when GPTC must send its quick reaction team to fix problems causing outages.

According to the Power and Antenna Height Requirements depicted in §73.211 of the FCC rules, the proposed ERP of 5.6 kW would classify the proposed WACG-FM facility as a Class A station without taking the proposed antenna height above average terrain and the reference distance to contour; however, the proposed antenna height radiation center Above Average Terrain (AAT) is 429.4 meters. Therefore, in accordance with §73.211(b) of the FCC rules, the proposed WACG-FM station will be a Class C2 facility since the distance to the reference contour in all azimuthal directions would be greater than 39 km and would not exceed 52 km.

### **Attached Figures**

The following list is an index of enclosed figures produced by calculations and engineering studies of the proposed WACG-FM Channel 214 C2 facility.

- 1) Proposed Engineering Specifications (Exhibit 1).
- 2) Antenna Data (Exhibit 2).
- 3) Support Structure Profile/Elevation View of Antenna System (Exhibit 3).
- 4) Antenna Vertical Pattern: 0° - 11° (Exhibit 4)
- 5) Antenna Vertical Pattern: 0° - 90° (Exhibit 5)
- 6) Antenna Vertical Pattern Tabulation (Exhibit 6)
- 7) USGS 7.5-minute topographic quadrangle map depicting the proposed transmitter location and coordinate lines (Exhibit 7).
- 8) Licensed WACG-FM 1 mV/m Contour (Black) vs. Proposed WACG-FM 1 mV/m Contour (Red) – Exhibit 8.
- 9) Proposed 1mV/m (60 dBuV/m) Predicted Contour and Radials, Proposed Transmitter Location, & Principal Community Boundary Depiction (Exhibit 9).



- 10) FM-to-FM Interference Studies - **calculated using 3 Arc Second Terrain** (Exhibit 10).
- 11) FM Allocation Study - WVNG-FM (Exhibit 11)
- 12) Proposed WACG-FM F(50,50) 60 dBuV/m 3 Arc Second Terrain (Exhibit 12)
- 13) Proposed WACG-FM F(50,10) 100 dBuV/m 3 Arc Second Terrain (Exhibit 13)
- 14) WVNG-FM F(50,50) 60 dBuV/m 3 Arc Second Terrain (Exhibit 14)
- 15) WVNG-FM F(50,10) 100 dBuV/m 3 Arc Second Terrain (Exhibit 15)
- 16) FM Allocation Study - WPWB-FM (Exhibit 16)
- 17) Proposed WACG-FM F(50,10) 54 dBuV/m 3 Arc Second Terrain (Exhibit 17)
- 18) WPWB-FM F(50,50) 60 dBuV/m 3 Arc Second Terrain (Exhibit 18)
- 19) WPWB-FM F(50,10) 54 dBuV/m 3 Arc Second Terrain (Exhibit 19)
- 20) FM Allocation Study – WMVV-FM (Exhibit 20)
- 21) Proposed WACG-FM F(50,10) 40 dBuV/m 3 Arc Second Terrain (Exhibit 21)
- 22) WMVV-FM F(50,50) 60 dBuV/m 3 Arc Second Terrain (Exhibit 22)
- 23) WMVV-FM F(50,10) 40 dBuV/m 3 Arc Second Terrain (Exhibit 23)
- 24) FM Allocation Study - All (Exhibit 24)
- 25) WJBF-TV6 Consent Letter (Exhibit 25)
- 26) Area Gained vs. Area Lost Contour Map (Exhibit 26)
- 27) Area in GA served by licensed WACG-FM facility (Exhibit 27)

### **Transmitter Location**

The licensed WACG-FM facility is currently operating on a 1,292-foot, Media General support structure located in SC with its antenna side-mounted at a 272-foot AGL radiation center height. The proposed FM antenna would be side-mounted on the WCES-TV support structure and would have a 1,350-foot AGL radiation center height (Exhibit 3). The proposed tower is registered with the FCC and has a registration number of 1018796. The proposed antenna structure's address is 2316 Miller PL RD Wrens, GA.



### **Proposed vs. Licensed**

The F(50,50) 60.0 dBuV/m protected service contours for the licensed (black) and proposed (red) WACG-FM facilities are depicted in Exhibit 8. It can be seen that the proposed facility would serve a much larger area of GA than the licensed facility.

### **Principal Community**

The F(50,50) 60.0 dBuV/m protected service contour for the proposed WACG-FM facility is depicted in Exhibit 9. It can be seen that the proposed facility's F(50,50) 60.0 dBuV/m service contour would completely encompass Augusta, GA in all azimuthal directions. Augusta, GA is the community of license for the WACG-FM station.

### **Interference Study – Calculated Using 3 Arc Second Terrain**

Exhibit 10 is an FM-to-FM interference study, which was calculated using 3 arc second terrain, and verifies that the proposed WACG-FM (5.6 kW ERP) facility's F(50,10) interfering contours would not overlap any applicable station's F(50,50) 60.0 dBuV/m protected contours and that the proposed WACG-FM (5.6 kW ERP) facility's F(50,50) 60.0 dBuV/m protected contour would not be overlapped by any applicable station's F(50,10) interfering contours.

### **Allocation Studies – Calculated Using 3 Arc Second Terrain**

Exhibit 11 is a pictorial depiction of the contour relationship between the proposed WACG-FM facility's F(50,50) 60.0 dBuV/m protected (blue) and F(50,10) 100.0 dBuV/m interfering (red) contours and the 2<sup>nd</sup>-adjacent WVNG-FM facility's F(50,50) 60.0 dBuV/m protected (blue) and F(50,10) 100.0 dBuV/m interfering (red) contours. It can be seen that unacceptable overlap would not exist between the two stations. Exhibits 12-15 depict the 3 arc second terrain data for each station's F(50,50) 60 dBu and F(50,10) 100 dBu contours.



Exhibit 16 is a pictorial depiction of the contour relationship between the proposed WACG-FM facility's F(50,50) 60.0 dBuV/m protected (blue) and F(50,10) 54.0 dBuV/m interfering (red) contours and the 1<sup>st</sup>-adjacent WPWB-FM facility's F(50,50) 60.0 dBuV/m protected (blue) and F(50,10) 54.0 dBuV/m interfering (red) contours. It can be seen that unacceptable overlap would not exist between the two stations. Exhibits 17-19 depict the 3 arc second terrain data for each station's F(50,10) 54 dBu contour and the F(50,50) 60 dBu contour for the WPWB-FM facility. The 3 arc second terrain data for the proposed WACG-FM F(50,50) 60 dBu contour is depicted in Exhibit 12.

Exhibit 20 is a pictorial depiction of the contour relationship between the proposed WACG-FM facility's F(50,50) 60.0 dBuV/m protected (blue) and F(50,10) 40.0 dBuV/m interfering (red) contours and the co-channel WMVV-FM facility's F(50,50) 60.0 dBuV/m protected (blue) and F(50,10) 40.0 dBuV/m interfering (red) contours. It can be seen that unacceptable overlap would not exist between the two stations. Exhibits 21-23 depict the 3 arc second terrain data for each station's F(50,10) 40 dBu contour and the F(50,50) 60 dBu contour for the WMVV-FM facility. The 3 arc second terrain data for the proposed WACG-FM F(50,50) 60 dBu contour is depicted in Exhibit 12.

Exhibit 24 is a pictorial depiction of the contour relationship between the proposed WACG-FM facility's F(50,50) 60.0 dBuV/m protected (blue) and respective F(50,10) interfering (red) contours and the F(50,50) 60.0 dBuV/m protected (blue) and respective F(50,10) interfering (red) contours of the WVNG-FM, WPWB-FM and WMVV-FM facilities plotted on one map.

### **TV Channel 6 Letter of Consent**

The WJBF-TV Channel 6 facility ceased operation on February 17, 2009. Exhibit 25 is a copy of the letter of consent from Media General Communications, Holdings, LLC (Media General), licensee of the WJBF-TV Channel 6 facility. The letter of consent states that the WJBF no longer operates on Channel 6 and that Media General has no objection to the grant of



this application. Therefore, the proposed WACG-FM facility is not required to protect the WJBF-TV Channel 6 station since it no longer operates on TV Channel 6.

### **Area and population Analysis**

The population counts within the licensed and proposed 1 mV/m contours (60.0 dBuV/m) were determined using 2000 U.S. Census data. The area and population gain within the proposed WACG-FM 1 mV/m contour is predicted to be 5,238.87 sq km and 60,170 persons respectively. The area and population loss within the licensed WACG-FM 1 mV/m contour is predicted to be 2,279.54 sq km and 84,441 persons respectively. However, it is predicted that approximately 98.8% of the area/population loss would be in the state of SC. The area and population loss within the licensed WACG-FM 1 mV/m contour in the state of GA is predicted to be only 143.03 sq km and only 958 persons respectively. This represents a predicted area gain within the state of GA of approximately 5,095.84 sq km and a predicted population gain within the state of GA of approximately 59,212 persons (Exhibit 16). The percentage of increase in area within the state of GA ( $5,238.87/2,627.07$ ) is predicted to be 199.4% and the percentage of increase in population within the state of GA ( $24,372/448,335$ ) is predicted to be 19.9%.

### **Intermediate Frequency Interference (53<sup>rd</sup> & 54<sup>th</sup> Adjacent Channels)**

The proposed WACG-FM site would meet all separation requirements pertaining to intermediate frequency ("IF") interference. The station with the narrowest gap with respect to distance from the proposed WACG-FM transmitter site is ( $214 + 53 = \underline{267}$  &  $214 + 54 = \underline{268}$ ) the licensed WQIL-FM Channel 267 Class C2 facility located approximately 124.6 km from the proposed WACG-FM transmitter site in Chauncey, GA at North Latitude 32° 22' 59" and West Longitude 83° 07' 08" where a separation of 19.5 km is required; therefore, the distance is easily met with a margin of 105.1 km.



## **FM Blanketing Interference**

Blanketing is defined as interference to the reception of other broadcast stations which is caused by the presence of an FM broadcast signal of 115 dBu (562 mV/m) or greater signal strength in the area adjacent to the antenna of the transmitting station. The 115 dBu contour is referred to as the blanketing contour and the area within this contour is referred to as the blanketing area. The proposed WACG-FM Channel 214 blanketing contour extends 0.93 km from its transmitter and it is understood that GPTC must assume full financial responsibility for remedying new complaints of blanketing interference for a period of one year to all broadcast stations within the proposed WACG-FM blanketing contour.

## **Environmental Impact**

The proposed WACG-FM Channel 214 Class C2 facility will have no significant environmental impact as defined in §1.1307 of the FCC Rules. The FM transmitter, transmission line and antenna system will produce a maximum ERP of 5.6 kW (h-pol only). Assuming the maximum lobe of radiation were oriented toward the base of the tower, the proposed WACG-FM facility's power density six feet above the ground would be  $0.001 \text{ mW/cm}^2$ . This equates to only 0.11% of the Maximum Permissible Exposure (MPE) limits for Occupational/Controlled Exposure and only 0.56% of the MPE limits for General Population/Uncontrolled Exposure authorized by the American National Standards Institute (ANSI). Since operation of the proposed WACG-FM 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 proposed 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.

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





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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, Jr., Telecommunications Technical 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, JR.  
Telecommunications Technical Consultant

May 06, 2009

## ENGINEERING SPECIFICATIONS

Location: **2316 Miller PL RD**  
**Wrens, GA**

Mailing Address **260 14<sup>th</sup> Street N.W. Atlanta, Georgia 30318**

FM Channel	Number.....	<b>214</b>
	Frequency.....	<b>91.1 MHz</b>
	Class.....	<b>C2</b>

Height of Site Above Mean Sea Level (AMSL) .....	<b>132.5 M</b>
Overall Height of Structure Above Ground .....	<b>446.0 M</b>
(including all appurtenances)	
Overall Height of Structure Above Mean Sea Level .....	<b>578.5 M</b>
(including all appurtenances)	
Height of Site Above Average Terrain .....	<b>17.9 M</b>
Antenna Height Radiation Center (R/C) Above Ground .....	<b>411.5 M</b>
Antenna Height R/C Above Mean Sea Level .....	<b>544.0 M</b>
Antenna Height R/C Above Average Terrain .....	<b>429.4 M</b>
Average of All Non-Odd Radials .....	<b>114.6 M</b>

Transmitter Power Required	2.6 kW
Maximum Power Input to Antenna	1.7 kW
Transmission Line Loss	1.88 dB
Transmission Line Efficiency	64.9%
RMS Gain at Main Lobe	5.20 dB
RMS Gain at Horizontal	5.19 dB
Maximum Effective Radiated Power	7.48 dBk
In Beam Maximum	5.6 kW
Maximum Effective Radiated Power	7.47 dBk
In Horizontal Plane	5.6 kW

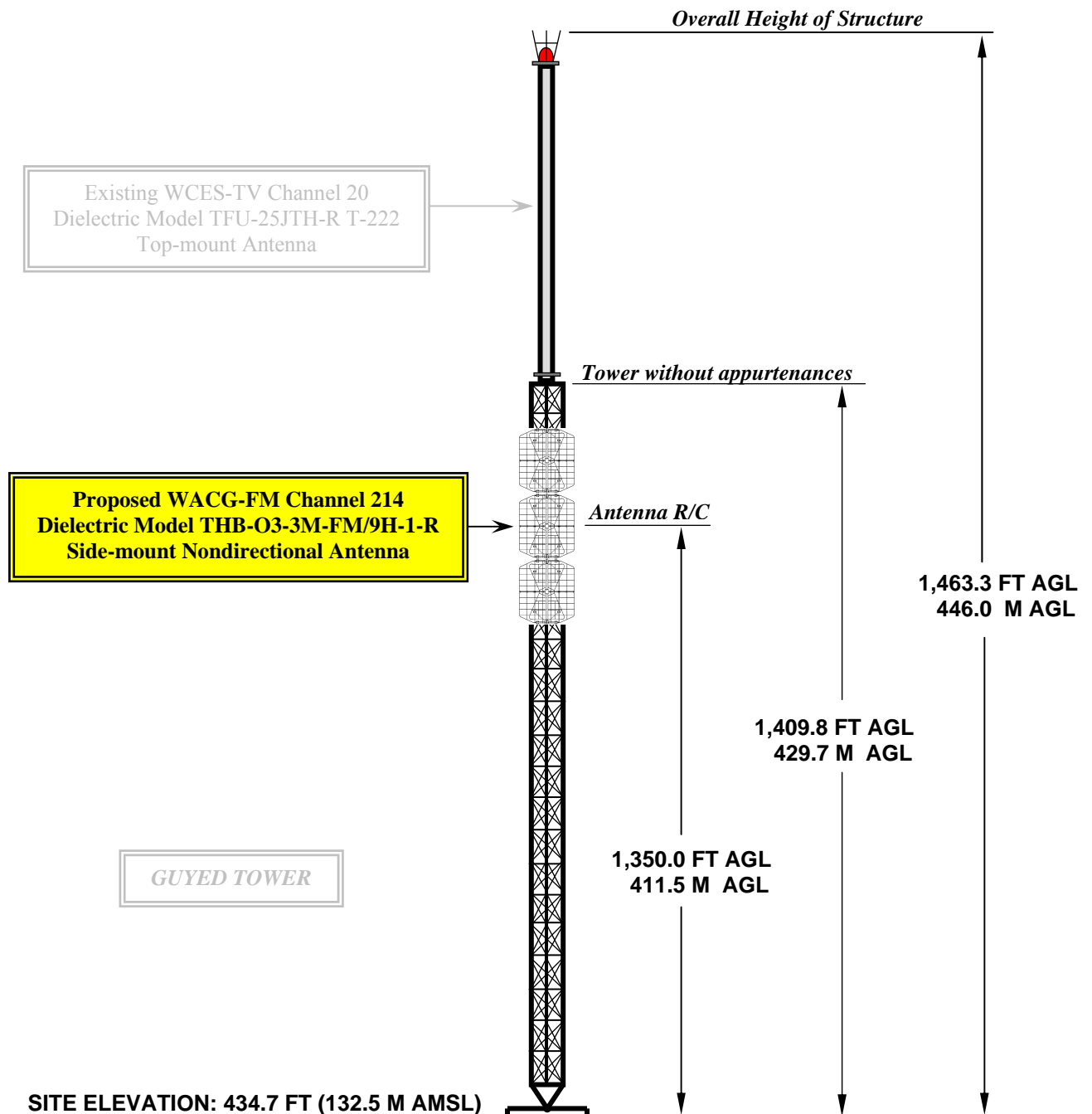
**WACG-FM**  
*Augusta, Georgia*

**DATA FOR PROPOSED  
NONDIRECTIONAL TRANSMITTING ANTENNA**

- A. **Antenna:** Dielectric Model THB-03-3M/9H-1-R FM Side-Mount, Horizontally Polarized Antenna.
- B. **Electrical Beam Tilt:** 0.0°
- C. **Mechanical Beam Tilt:** None
- D. 

<b><u>RMS Gain</u></b>	<b><u>Vertical Polarization</u></b>
Main Lobe:	3.3 (5.20 dB)
Horizontal:	3.3 (5.19 dB)
- E. **Length:** 32.6 feet (9.9 meters)
- F. **Transmitter Power Output (TPO):** 2.6 kW
- G. **Transmission Line:** 3" Flexible Line (50 ohm)
- H. **Transmission Line Efficiency:** 64.9%
- I. **Transmission Line Length:** 1,400 feet
- J. **Transmission Line Loss:** 0.134 dB/100 ft
- K. **Transmission Line Attenuation:** 1.88 dB

# PROPOSED WACG-FM CHANNEL 214 TOWER ELEVATION VIEW



OVERALL HEIGHT AGL: 446.0 M  
OVERALL HEIGHT AMSL: 578.5 M  
RADIATION CENTER AGL: 411.5 M  
RADIATION CENTER AMSL: 544.0 M  
RADIATION CENTER HAAT: 429.4 M  
AVG OF ALL NON-ODD RADIALS: 114.6 M  
SITE HAAT: 17.9 M

## COORDINATES (NAD 27):

N. LATITUDE 33° 15' 33"  
W. LONGITUDE 82° 17' 09"

Antenna Structure Registration Number:  
1018796

**NOTE: NOT TO SCALE**

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**WACG-FM CHANNEL 214C2**

**AUGUSTA, GEORGIA**

**20090506**

**EXHIBIT 3**

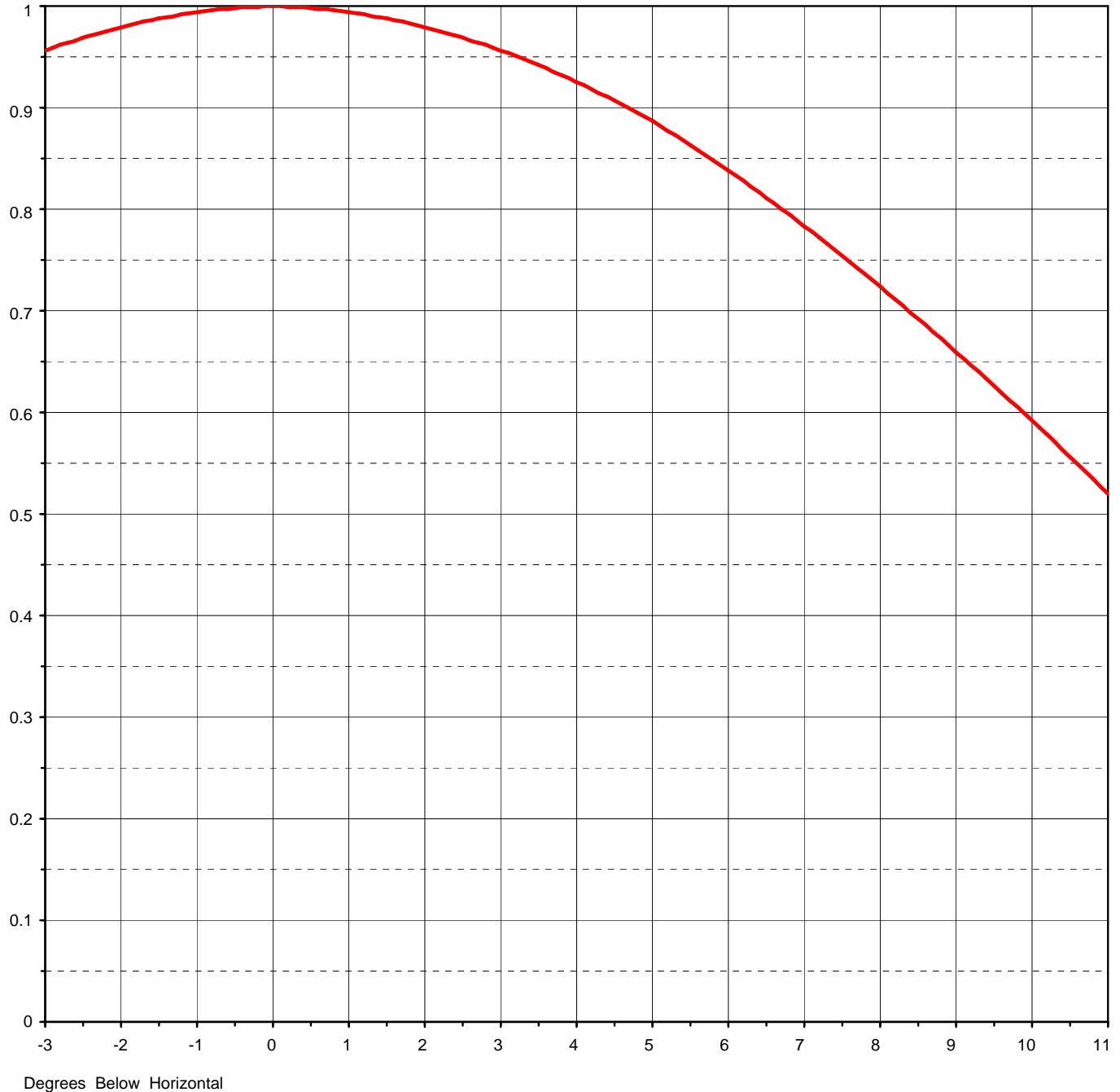


Proposal Number	<b>C-01266</b>		
Date	<b>11-Apr-07</b>		
Call Letters	<b>WACG-FM</b>	Channel	<b>214</b>
Location	<b>Wrens, GA</b>		
Customer	<b>GA Public Broadcasting</b>		
Antenna Type	<b>THB-O3-3M-FM/9H-1-R</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>3.31</b>	<b>( 5.20 dB )</b>
RMS Gain at Horizontal	<b>3.30</b>	<b>( 5.19 dB )</b>
Calculated / Measured	<b>Calculated</b>	

Beam Tilt	<b>0.00 deg</b>
Frequency	<b>90.70 MHz</b>
Drawing #	<b>03H033000</b>



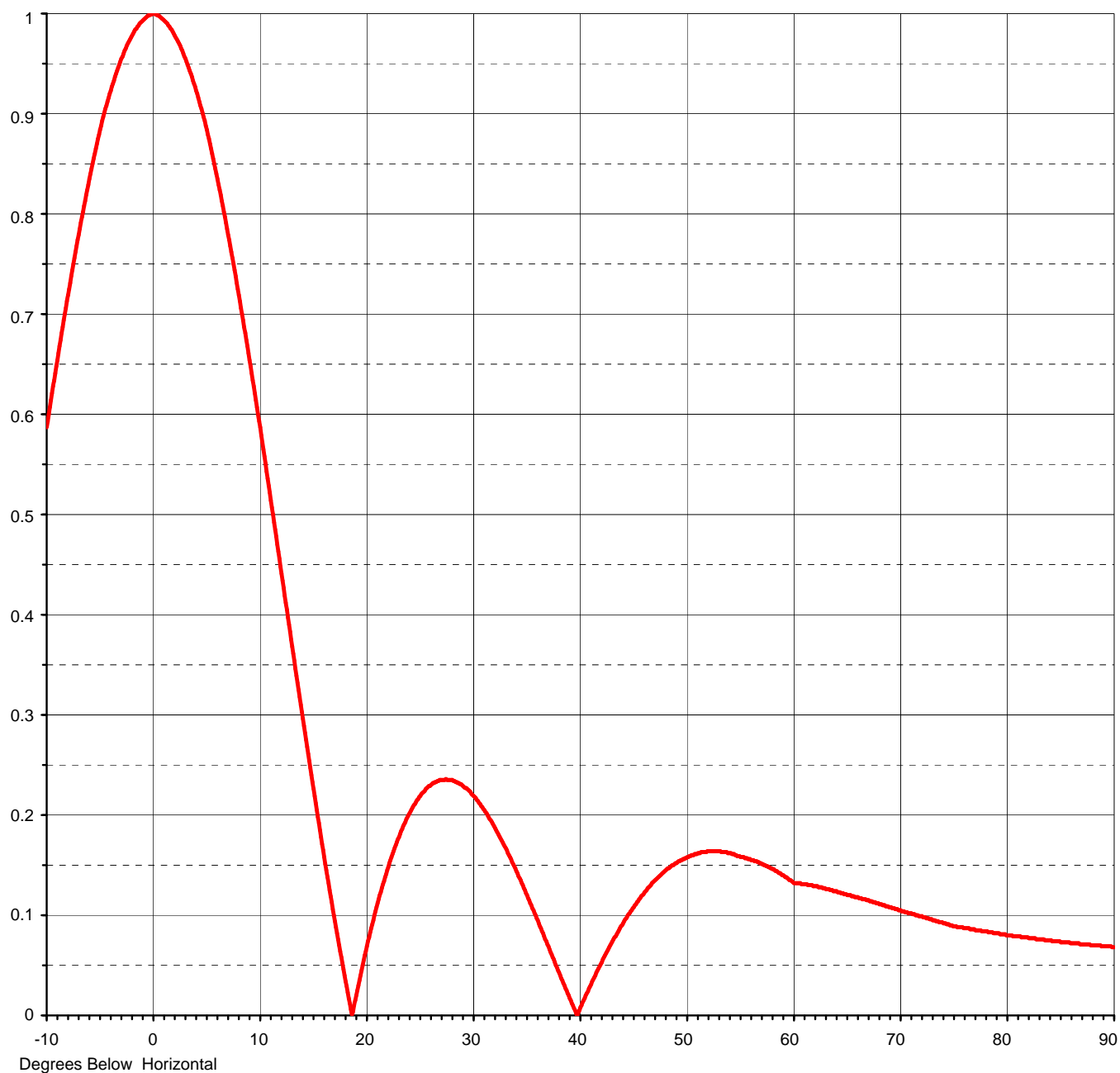


Proposal Number	C-01266	
Date	11-Apr-07	
Call Letters	WACG-FM	Channel 214
Location	Wrens, GA	
Customer	GA Public Broadcasting	
Antenna Type	THB-O3-3M-FM/9H-1-R	

## ELEVATION PATTERN

RMS Gain at Main Lobe	3.31	( 5.20 dB )
RMS Gain at Horizontal	3.30	( 5.19 dB )
Calculated / Measured	Calculated	

Beam Tilt	0.00 deg
Frequency	90.70 MHz
Drawing #	03H033000-90





Proposal Number **C-01266**  
Date **11-Apr-07**  
Call Letters **WACG-FM** Channel **214**  
Location **Wrens, GA**  
Customer **GA Public Broadcasting**  
Antenna Type **THB-O3-3M-FM/9H-1-R**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **03H033000-90**

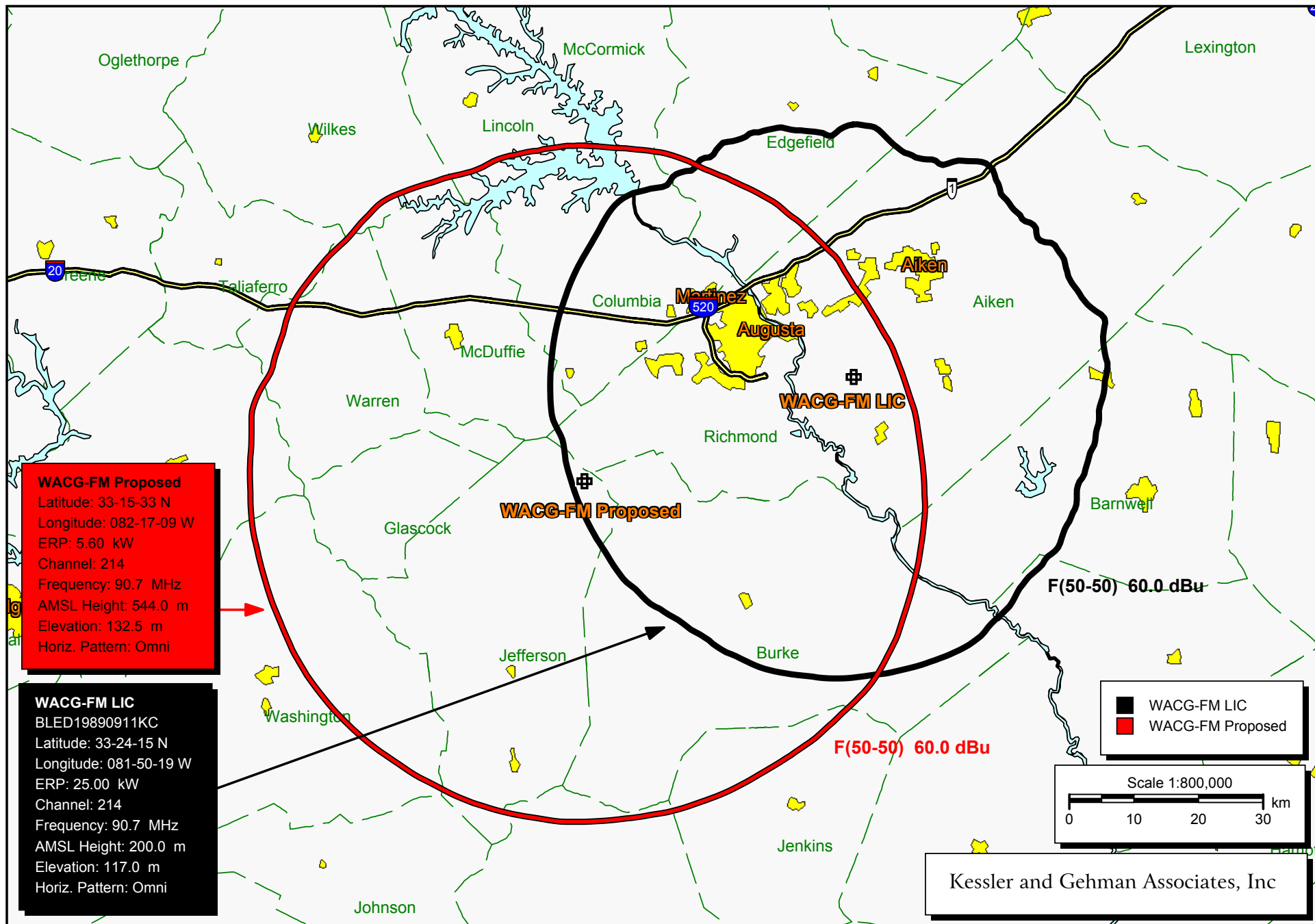
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.592	2.4	0.971	10.6	0.556	30.5	0.233	51.0	0.211	71.5	0.114
-9.5	0.626	2.6	0.966	10.8	0.542	31.0	0.226	51.5	0.214	72.0	0.113
-9.0	0.659	2.8	0.962	11.0	0.527	31.5	0.217	52.0	0.216	72.5	0.111
-8.5	0.692	3.0	0.956	11.5	0.491	32.0	0.208	52.5	0.218	73.0	0.109
-8.0	0.724	3.2	0.951	12.0	0.454	32.5	0.198	53.0	0.219	73.5	0.108
-7.5	0.754	3.4	0.945	12.5	0.418	33.0	0.187	53.5	0.220	74.0	0.106
-7.0	0.783	3.6	0.939	13.0	0.381	33.5	0.176	54.0	0.220	74.5	0.104
-6.5	0.811	3.8	0.932	13.5	0.345	34.0	0.163	54.5	0.220	75.0	0.103
-6.0	0.838	4.0	0.925	14.0	0.309	34.5	0.151	55.0	0.219	75.5	0.102
-5.5	0.863	4.2	0.918	14.5	0.273	35.0	0.137	55.5	0.218	76.0	0.100
-5.0	0.887	4.4	0.911	15.0	0.238	35.5	0.124	56.0	0.217	76.5	0.099
-4.5	0.907	4.6	0.903	15.5	0.203	36.0	0.110	56.5	0.215	77.0	0.098
-4.0	0.925	4.8	0.895	16.0	0.169	36.5	0.096	57.0	0.213	77.5	0.097
-3.5	0.942	5.0	0.887	16.5	0.135	37.0	0.081	57.5	0.211	78.0	0.095
-3.0	0.956	5.2	0.877	17.0	0.103	37.5	0.067	58.0	0.208	78.5	0.094
-2.8	0.962	5.4	0.868	17.5	0.071	38.0	0.052	58.5	0.205	79.0	0.093
-2.6	0.966	5.6	0.858	18.0	0.041	38.5	0.037	59.0	0.201	79.5	0.092
-2.4	0.971	5.8	0.848	18.5	0.012	39.0	0.023	59.5	0.197	80.0	0.090
-2.2	0.975	6.0	0.838	19.0	0.015	39.5	0.008	60.0	0.193	80.5	0.089
-2.0	0.979	6.2	0.828	19.5	0.042	40.0	0.006	60.5	0.190	81.0	0.088
-1.8	0.983	6.4	0.817	20.0	0.067	40.5	0.020	61.0	0.186	81.5	0.087
-1.6	0.986	6.6	0.806	20.5	0.090	41.0	0.034	61.5	0.183	82.0	0.086
-1.4	0.989	6.8	0.795	21.0	0.112	41.5	0.048	62.0	0.179	82.5	0.084
-1.2	0.992	7.0	0.783	21.5	0.133	42.0	0.061	62.5	0.175	83.0	0.083
-1.0	0.994	7.2	0.772	22.0	0.151	42.5	0.074	63.0	0.170	83.5	0.082
-0.8	0.996	7.4	0.760	22.5	0.169	43.0	0.086	63.5	0.166	84.0	0.081
-0.6	0.997	7.6	0.748	23.0	0.184	43.5	0.098	64.0	0.161	84.5	0.080
-0.4	0.999	7.8	0.736	23.5	0.198	44.0	0.109	64.5	0.155	85.0	0.079
-0.2	0.999	8.0	0.724	24.0	0.211	44.5	0.120	65.0	0.150	85.5	0.077
0.0	1.000	8.2	0.711	24.5	0.221	45.0	0.131	65.5	0.148	86.0	0.076
0.2	0.999	8.4	0.698	25.0	0.231	45.5	0.141	66.0	0.145	86.5	0.075
0.4	0.999	8.6	0.686	25.5	0.238	46.0	0.150	66.5	0.142	87.0	0.073
0.6	0.997	8.8	0.673	26.0	0.244	46.5	0.159	67.0	0.139	87.5	0.072
0.8	0.996	9.0	0.659	26.5	0.248	47.0	0.167	67.5	0.136	88.0	0.071
1.0	0.994	9.2	0.646	27.0	0.251	47.5	0.174	68.0	0.132	88.5	0.070
1.2	0.992	9.4	0.633	27.5	0.252	48.0	0.181	68.5	0.129	89.0	0.068
1.4	0.989	9.6	0.619	28.0	0.252	48.5	0.188	69.0	0.126	89.5	0.067
1.6	0.986	9.8	0.612	28.5	0.251	49.0	0.193	69.5	0.122	90.0	0.066
1.8	0.983	10.0	0.599	29.0	0.248	49.5	0.198	70.0	0.119		
2.0	0.979	10.2	0.585	29.5	0.245	50.0	0.203	70.5	0.117		
2.2	0.975	10.4	0.571	30.0	0.239	50.5	0.207	71.0	0.116		

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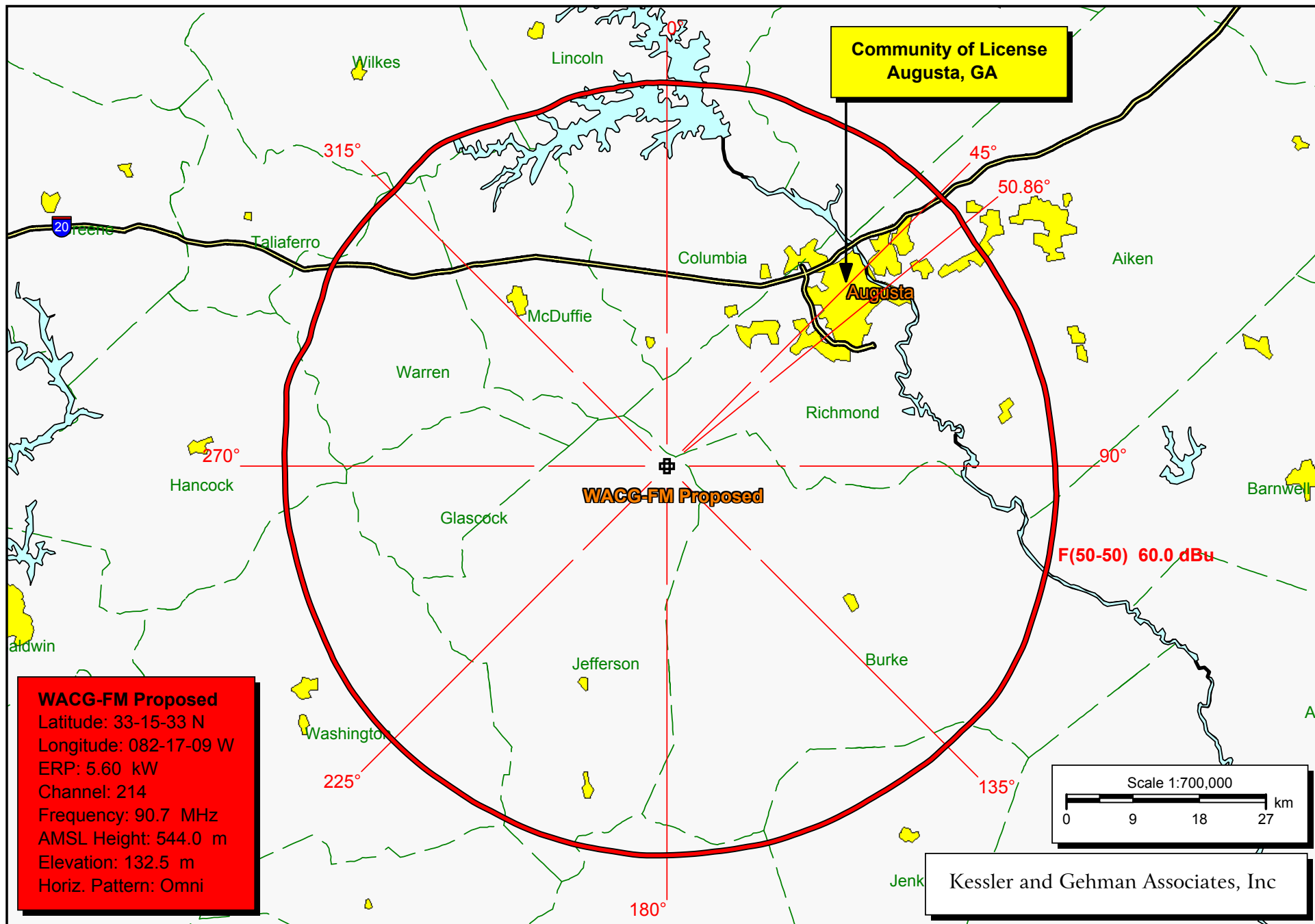








WACG-FM (License) vs. WACG-FM (Proposed)



Kessler and Gehman Associates, Inc.  
Telecommunications Consulting Engineers

Georgia Public Telecommunications Commission  
NCE-FM Interference Study  
CH# 214C2 - 90.7 MHz, Pwr= 5.6 kW, HAAT= 429.4 M, COR= 544 M  
Average Protected F(50-50)= 52.38 km  
Omni-directional

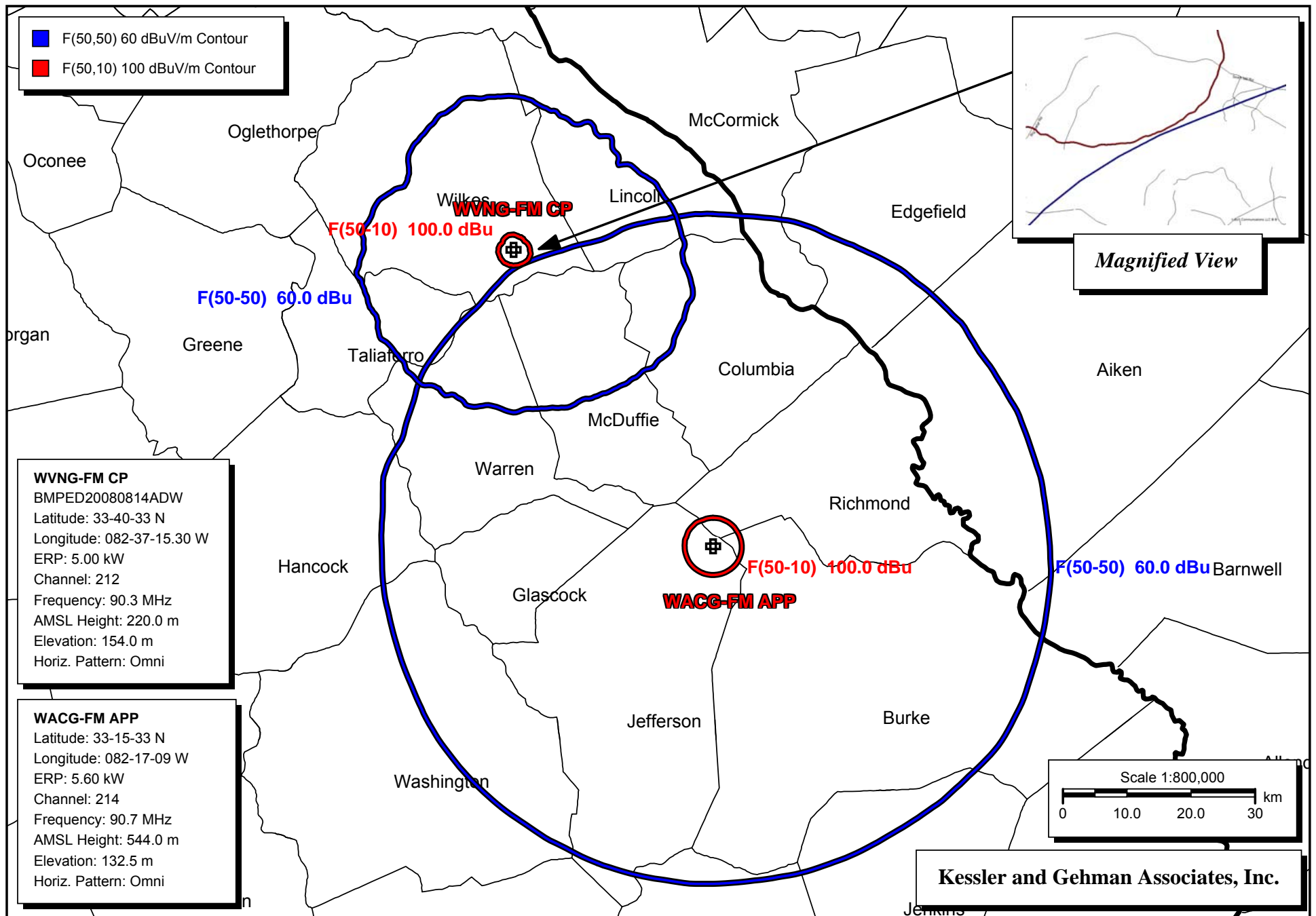
DISPLAY DATES  
DATA 05-06-09  
SEARCH 05-06-09

CH CITY	CALL	TYPE	ANT STATE	AZI ---	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT* (in km)
214C2 Augusta	WACG-FM	APP GA	_HX	0.0 0.0	0.0 BPED20090218ABZ	33 15 33.0 82 17 09.0	5.500 429	126.1 544	51.7 Georgia Public Telecommuni	-178.0*	-178.1*
214C2 Augusta	WACG-FM	LIC GA	_CN	68.7 248.9	44.6 BLED19890911KC	33 24 15.0 81 50 19.0	25.000 122	122.8 200	46.6 Georgia Public Telecommuni	-130.0*	-128.4*
06 2E Wrens	WCES-TV	CPM GA	_HN	0.0 0.0	0.0 BMPEDT20080619AKQ	33 15 33.0 82 17 09.0	7.900 429	31.6 544	85.7 Georgia Public Telecommuni	186.5R	-117.4M
06 2E Wrens	WCES-TV	AP GA	_HN	0.0 0.0	0.0 BDSTA20090212ABF	33 15 33.0 82 17 09.0	7.900 429	31.6 544	85.7 Georgia Public Telecommuni	186.5R	-117.4M
06+2C Augusta	WJBF	LI GA	_HY	68.7 248.9	45.1 BLCT20040130AOR	33 24 20.0 81 50 01.0	100.000 495	31.6 564	121.9 Media General Communicatio	186.5R	-108.4M
212A Tignal l	WVNG	CP GA	_VX	326.2 146.1	55.7 BMPED20080814ADW	33 40 33.0 82 37 15.3	5.000 82	2.6 220	26.7 Toccoa Foundation, Inc.	0.1	24.5
213C2 Byron	WPWB	LIC GA	_CN	237.9 57.3	119.8 BLED19900319KA	32 40 55.0 83 22 10.0	16.500 138	61.5 260	41.0 Augusta Radio Fellowship I	6.1	0.4
214C2 Gri ffin	WMVV	LIC GA	DCX	274.6 93.6	172.5 BLED20030321ABI	33 22 12.0 84 08 00.0	18.000 144	116.3 381	44.5 Life Radio Ministries, Inc	4.4	1.7
215A Dublin	1207771	APP GA	_CX	216.5 36.2	96.7 BNPED20071015ACB	32 33 29.0 82 54 02.0	3.500 50	24.0 129	16.2 Athens Christian Radio, In	20.3	1.9
216C2 McCormi ck	NEW	CP SC	DVX	348.7 168.6	58.3 BNPED20071022BSL	33 46 28.0 82 24 36.0	28.000 107	4.6 228	43.0 Mediatrix Sc, Inc.	2.1	10.9
213C3 Cross Hill	1206572	APP SC	DEX	9.4 189.5	113.4 BNPED20071015AGW	34 16 03.0 82 04 59.0	25.000 63	43.7 225	27.5 Solid Foundation Broadcast	17.7	8.0
213C2 Greenwood	1227216	APP SC	DCX	13.3 193.4	121.2 BNPED20071022BOP	34 19 20.0 81 58 57.0	42.000 134	51.0 294	33.8 Radio Training Network, In	18.0	9.1
213A Greenwood	1208087	APP SC	_VX	9.8 189.9	105.4 BNPED20071012ADK	34 11 44.4 82 05 24.3	1.000 100	25.4 259	17.2 Community Impact Foundatio	28.0	10.3
213C2 Laurens	1295398	APP SC	DEX	13.3 193.4	121.2 BNPED20071018AMP	34 19 20.0 81 58 57.0	40.000 105	49.9 264	32.5 Community Broadcast Servic	19.1	10.4
213C2 Gray Court	1209375	APP SC	DVX	13.3 193.4	121.2 BNPED20071022BHF	34 19 19.9 81 58 57.2	21.000 136	48.3 298	31.9 St. Joseph's Catholic Scho	20.7	10.9
213C2 Joanna	1212244	APP SC	DEX	10.9 191.0	116.6 BNPED20071018APR	34 17 28.0 82 02 43.0	28.000 105	37.8 267	24.9 Richburg Educational Bdcst	26.7	13.6
213A Cross Hill	1215860	APP SC	DVX	13.3 193.4	121.2 BNPED20071022BGU	34 19 20.0 81 58 57.0	6.000 62	38.2 224	24.9 Benedict College	30.8	18.0
214C3 Fitzgerald	1221051	APP GA	_CX	202.7 22.3	182.6 BNPED20071012DYF	31 44 19.0 83 01 54.0	12.000 100	100.8 175	35.6 Christian Radio Media, Inc	29.2	19.1
213C2 Athens	WUOG	LIC GA	DCN	307.4 126.8	127.4 BLED19940103KC	33 56 59.0 83 22 58.0	26.000 55	46.0 276	29.0 The University Of Georgia	28.7	19.3
215C1 Cochran	1276862	APP GA	DVX	218.7 38.2	149.5 BNPED20071019AJX	32 12 17.3 83 16 49.4	63.000 127	76.9 220	50.2 Catholic Radio Network, In	20.2	20.6
213A Cross Hill	1210794	APP SC	_CX	13.3 193.5	119.9 BNPED20071019API	34 18 37.0 81 59 03.0	4.000 35	25.6 192	17.4 Greenwood Broadcasters Ltd	42.1	24.2
214C2 North Charleston	WYFH	LIC SC	DCN	98.9 280.0	194.3 BLED19911016KA	32 58 23.0 80 13 54.0	50.000 150	107.7 158	40.2 Bible Broadcasting Network	33.6	25.4
215C1 Toccoa Falls	WRAF	APP GA	DCX	326.5 145.9	179.0 BPED20090424ACH	34 35 57.0 83 21 55.0	100.000 172	99.3 513	67.5 Toccoa Falls College	26.7	31.9
215C1 Toccoa Falls	WRAF	LIC GA	DEN	326.5 145.9	179.0 BLED19860211KD	34 35 57.0 83 21 55.0	100.000 172	99.3 513	67.5 Toccoa Falls College	26.7	31.9
212C3 Vi dal ia	NONE	CP GA	_VX	183.7 3.7	85.6 BNPED20071015ACL	32 29 20.0 82 20 41.0	18.000 86	3.2 155	31.6 Edgewater Broadcasting, In	29.6	49.5

Page # 2

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
213A	WUSC-FM Columbia	LIC	_CN SC	54.5 235.2	143.2 BLED19870817KD	34 00 02.0 81 01 19.0	2.500 77	31.7 148	21.4 The University Of South Ca	60.1	44.8
214C	WFAE Charlotte	LIC	DCX NC	32.5 213.4	268.4 BLED20050223ACA	35 17 14.0 80 41 45.0	100.000 331	169.3 544	71.8 University Radio Foundatio	47.1	69.8
213C	1211920 Simpsonville	APP	_CX SC	1.5 181.5	143.6 BNPED20071017AGT	34 33 12.0 82 14 43.0	0.860 12	13.6 19	9.8 Lost Boys Broadcast Networ	78.1	56.1
215A	WNBK Whitmore	LIC	DEX SC	26.1 206.5	153.4 BLED20090209AME	34 29 52.0 81 32 55.0	1.800 102	25.8 226	17.4 Richburg Educational Bdcst	75.9	58.4

Terrain database is USGS 03 SEC, R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
 Contour distances are on direct line to and from reference station. Reference zone = , Co to 3rd adjacent.  
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
 "\*"affixed to 'IN' or 'OUT' values = site inside protected contour.  
 "<" = Contour Overlap



WVNG-FM CP vs. WACG-FM APP Single Allocation Study

## Proposed WACG-FM F(50,50) 60 dBu 3 Second Terrain

Call Letters: WACG-FM APP  
Latitude: 33-15-33 N  
Longitude: 082-17-09 W  
ERP: 5.60 kW  
Channel: 214  
Frequency: 90.7 MHz  
AMSL Height: 544.0 m  
Elevation: 132.5 m  
HAAT: 429.4 m  
Horiz. Antenna Pattern: Omni

Type of contour: FCC  
Location Variability: 50.0 %  
Time Variability: 50.0 %  
# of Radials Calculated: 360  
Field Strength: 60.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	51.8	419.5
1.0	51.8	418.5
2.0	51.8	418.1
3.0	51.7	417.8
4.0	51.7	417.3
5.0	51.7	417.1
6.0	51.8	417.9
7.0	51.8	419.1
8.0	51.8	419.6
9.0	51.9	420.1
10.0	52.0	421.7
11.0	52.0	423.0
12.0	52.1	423.4
13.0	52.2	425.2
14.0	52.2	425.5
15.0	52.2	425.3
16.0	52.1	424.4
17.0	52.1	423.6
18.0	52.0	422.7
19.0	51.9	420.4
20.0	51.8	418.2
21.0	51.7	416.8
22.0	51.7	416.6
23.0	51.7	416.4
24.0	51.7	417.0
25.0	51.8	418.5
26.0	51.8	418.1
27.0	51.8	418.5
28.0	51.8	419.2
29.0	51.9	420.7
30.0	52.0	421.6
31.0	52.0	422.3
32.0	52.0	423.1
33.0	52.1	424.4
34.0	52.2	425.5
35.0	52.1	425.1

# Proposed WACG-FM F(50,50) 60 dBu 3 Second Terrain

36.0	52.1	423.7
37.0	52.0	422.0
38.0	52.0	421.9
39.0	52.0	423.0
40.0	52.0	423.2
41.0	52.0	422.8
42.0	52.0	422.6
43.0	52.0	422.5
44.0	52.0	421.9
45.0	52.0	422.0
46.0	52.0	421.8
47.0	52.0	422.5
48.0	52.1	424.3
49.0	52.0	422.9
50.0	51.8	419.5
51.0	51.7	416.6
52.0	51.6	415.0
53.0	51.5	413.0
54.0	51.4	411.3
55.0	51.4	411.9
56.0	51.5	412.5
57.0	51.5	413.9
58.0	51.6	414.2
59.0	51.5	413.9
60.0	51.6	414.3
61.0	51.6	415.2
62.0	51.6	415.1
63.0	51.6	415.5
64.0	51.7	416.5
65.0	51.8	418.9
66.0	51.9	420.5
67.0	51.9	420.5
68.0	51.9	419.9
69.0	51.8	419.6
70.0	51.9	419.8
71.0	51.9	420.1
72.0	51.9	420.2
73.0	51.9	420.3
74.0	51.9	420.9
75.0	52.0	421.6
76.0	52.0	422.6
77.0	52.1	424.4
78.0	52.2	425.9
79.0	52.2	426.3
80.0	52.2	426.2
81.0	52.2	425.6
82.0	52.2	425.6
83.0	52.2	426.0
84.0	52.2	426.2
85.0	52.2	426.8
86.0	52.3	427.9
87.0	52.4	428.9
88.0	52.4	429.8
89.0	52.5	430.8
90.0	52.5	432.1
91.0	52.6	432.8
92.0	52.6	433.7

# Proposed WACG-FM F(50,50) 60 dBu 3 Second Terrain

93.0	52.7	435.3
94.0	52.8	437.6
95.0	52.9	438.7
96.0	52.9	438.9
97.0	52.9	438.9
98.0	52.9	439.2
99.0	52.9	439.7
100.0	53.0	440.4
101.0	53.0	440.9
102.0	53.1	441.8
103.0	53.1	442.8
104.0	53.2	443.7
105.0	53.2	444.4
106.0	53.2	444.9
107.0	53.3	445.4
108.0	53.3	446.2
109.0	53.4	447.3
110.0	53.4	448.2
111.0	53.5	449.1
112.0	53.5	450.3
113.0	53.6	451.6
114.0	53.7	453.3
115.0	53.8	455.6
116.0	53.9	457.8
117.0	54.0	459.1
118.0	54.0	459.5
119.0	54.1	459.8
120.0	54.1	460.5
121.0	54.2	461.6
122.0	54.2	462.6
123.0	54.3	463.3
124.0	54.3	463.9
125.0	54.3	463.7
126.0	54.2	462.7
127.0	54.2	461.5
128.0	54.0	459.4
129.0	53.9	457.6
130.0	53.8	456.0
131.0	53.7	453.9
132.0	53.6	452.0
133.0	53.6	451.3
134.0	53.5	450.5
135.0	53.5	449.1
136.0	53.4	448.5
137.0	53.4	448.3
138.0	53.4	448.2
139.0	53.3	446.8
140.0	53.2	444.8
141.0	53.1	443.4
142.0	53.1	442.2
143.0	53.0	441.6
144.0	53.0	440.6
145.0	52.9	439.7
146.0	52.9	438.8
147.0	52.8	437.9
148.0	52.8	437.3
149.0	52.8	436.9



Proposed WACG-FM F(50,50) 60 dBu 3 Second Terrain

150.0	52.8	437.1
151.0	52.8	437.3
152.0	52.8	437.2
153.0	52.8	437.2
154.0	52.8	437.5
155.0	52.8	437.7
156.0	52.8	437.6
157.0	52.8	437.5
158.0	52.8	437.0
159.0	52.8	436.4
160.0	52.8	436.3
161.0	52.7	436.1
162.0	52.8	436.5
163.0	52.8	436.7
164.0	52.8	436.7
165.0	52.8	436.4
166.0	52.7	436.1
167.0	52.7	435.2
168.0	52.6	434.0
169.0	52.6	433.5
170.0	52.6	433.4
171.0	52.6	433.1
172.0	52.6	432.7
173.0	52.5	432.2
174.0	52.5	432.3
175.0	52.6	432.7
176.0	52.6	432.9
177.0	52.6	433.2
178.0	52.6	433.6
179.0	52.6	434.0
180.0	52.7	434.4
181.0	52.7	434.7
182.0	52.7	435.0
183.0	52.7	435.9
184.0	52.7	436.1
185.0	52.7	435.6
186.0	52.7	434.8
187.0	52.6	434.0
188.0	52.6	433.5
189.0	52.6	433.6
190.0	52.6	434.0
191.0	52.6	434.1
192.0	52.6	434.2
193.0	52.6	434.3
194.0	52.7	434.5
195.0	52.6	434.3
196.0	52.6	434.1
197.0	52.6	433.8
198.0	52.6	433.8
199.0	52.6	434.3
200.0	52.6	433.8
201.0	52.6	433.4
202.0	52.6	433.1
203.0	52.5	432.4
204.0	52.5	431.4
205.0	52.4	430.4
206.0	52.4	429.6

# Proposed WACG-FM F(50,50) 60 dBu 3 Second Terrain

207.0	52.4	429.4
208.0	52.4	430.0
209.0	52.5	430.8
210.0	52.4	430.6
211.0	52.4	429.8
212.0	52.4	429.0
213.0	52.3	428.6
214.0	52.3	428.3
215.0	52.3	428.5
216.0	52.4	429.0
217.0	52.4	429.6
218.0	52.4	430.0
219.0	52.4	430.3
220.0	52.4	430.4
221.0	52.4	430.5
222.0	52.4	430.4
223.0	52.4	430.4
224.0	52.4	430.5
225.0	52.4	430.4
226.0	52.4	430.6
227.0	52.4	430.4
228.0	52.4	430.3
229.0	52.4	430.2
230.0	52.4	429.7
231.0	52.4	429.3
232.0	52.4	429.1
233.0	52.4	429.0
234.0	52.4	428.9
235.0	52.3	428.7
236.0	52.3	427.7
237.0	52.2	426.8
238.0	52.2	426.3
239.0	52.2	425.8
240.0	52.1	425.0
241.0	52.0	423.0
242.0	52.0	421.8
243.0	51.9	421.1
244.0	51.9	419.9
245.0	51.8	419.0
246.0	51.8	418.6
247.0	51.8	418.4
248.0	51.8	418.4
249.0	51.8	418.2
250.0	51.8	417.9
251.0	51.7	417.3
252.0	51.7	416.8
253.0	51.7	416.6
254.0	51.7	416.3
255.0	51.7	416.3
256.0	51.7	416.3
257.0	51.7	416.3
258.0	51.7	416.3
259.0	51.7	416.8
260.0	51.7	417.7
261.0	51.8	418.5
262.0	51.8	418.5
263.0	51.8	418.2

Proposed WACG-FM F(50,50) 60 dBu 3 Second Terrain

264.0	51.8	417.9
265.0	51.7	417.7
266.0	51.7	417.2
267.0	51.7	416.7
268.0	51.7	416.1
269.0	51.7	416.1
270.0	51.7	416.6
271.0	51.7	417.3
272.0	51.8	417.9
273.0	51.8	417.8
274.0	51.8	418.3
275.0	51.8	418.1
276.0	51.8	418.6
277.0	51.9	420.1
278.0	52.0	422.2
279.0	52.1	424.6
280.0	52.3	427.1
281.0	52.4	430.4
282.0	52.5	432.0
283.0	52.4	430.5
284.0	52.3	428.9
285.0	52.2	426.1
286.0	52.0	422.2
287.0	51.7	417.8
288.0	51.5	413.2
289.0	51.3	409.7
290.0	51.3	409.7
291.0	51.5	412.4
292.0	51.6	414.3
293.0	51.6	415.5
294.0	51.7	416.8
295.0	51.8	418.6
296.0	51.9	420.4
297.0	52.1	424.0
298.0	52.3	428.4
299.0	52.5	431.6
300.0	52.7	434.8
301.0	52.8	436.6
302.0	52.8	437.2
303.0	52.8	437.0
304.0	52.8	436.5
305.0	52.7	436.0
306.0	52.7	435.3
307.0	52.7	435.3
308.0	52.7	434.9
309.0	52.7	434.4
310.0	52.7	434.4
311.0	52.6	434.2
312.0	52.6	433.5
313.0	52.5	431.9
314.0	52.5	430.9
315.0	52.4	429.9
316.0	52.4	430.1
317.0	52.5	431.7
318.0	52.6	433.9
319.0	52.8	436.4
320.0	52.9	438.5

Proposed WACG-FM F(50,50) 60 dBu 3 Second Terrain

321.0	53.0	440.2
322.0	53.1	442.9
323.0	53.2	445.2
324.0	53.3	445.8
325.0	53.2	444.8
326.0	53.1	442.7
327.0	52.9	439.2
328.0	52.7	435.9
329.0	52.6	432.7
330.0	52.4	429.2
331.0	52.2	425.9
332.0	52.0	422.4
333.0	51.8	418.7
334.0	51.7	416.6
335.0	51.6	415.1
336.0	51.4	412.2
337.0	51.3	409.0
338.0	51.1	406.0
339.0	51.0	404.0
340.0	50.9	402.4
341.0	50.9	402.8
342.0	51.0	404.5
343.0	51.2	407.8
344.0	51.4	411.8
345.0	51.5	413.7
346.0	51.6	414.8
347.0	51.6	415.1
348.0	51.6	414.4
349.0	51.6	415.0
350.0	51.6	415.5
351.0	51.6	415.5
352.0	51.6	414.5
353.0	51.7	417.3
354.0	51.7	417.1
355.0	51.7	417.8
356.0	51.8	419.4
357.0	51.9	420.7
358.0	51.8	419.4
359.0	51.9	420.2

Average HAAT for radials shown: 428.9 m

## Proposed WACG-FM F(50,10) 100 dBu 3 Second Terrain

Call Letters: WACG-FM APP  
Latitude: 33-15-33 N  
Longitude: 082-17-09 W  
ERP: 5.60 kW  
Channel: 214  
Frequency: 90.7 MHz  
AMSL Height: 544.0 m  
Elevation: 132.5 m  
HAAT: 429.4 m  
Horiz. Antenna Pattern: Omni

Type of contour: FCC  
Location Variability: 50.0 %  
Time Variability: 10.0 %  
# of Radials Calculated: 360  
Field Strength: 100.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	4.44	419.5
1.0	4.43	418.5
2.0	4.43	418.1
3.0	4.43	417.8
4.0	4.43	417.3
5.0	4.43	417.1
6.0	4.43	417.9
7.0	4.43	419.1
8.0	4.44	419.6
9.0	4.44	420.1
10.0	4.44	421.7
11.0	4.45	423.0
12.0	4.45	423.4
13.0	4.45	425.2
14.0	4.46	425.5
15.0	4.46	425.3
16.0	4.45	424.4
17.0	4.45	423.6
18.0	4.45	422.7
19.0	4.44	420.4
20.0	4.43	418.2
21.0	4.43	416.8
22.0	4.43	416.6
23.0	4.43	416.4
24.0	4.43	417.0
25.0	4.43	418.5
26.0	4.43	418.1
27.0	4.43	418.5
28.0	4.44	419.2
29.0	4.44	420.7
30.0	4.44	421.6
31.0	4.45	422.3
32.0	4.45	423.1
33.0	4.45	424.4
34.0	4.46	425.5
35.0	4.45	425.1

# Proposed WACG-FM F(50,10) 100 dBu 3 Second Terrain

36.0	4.45	423.7
37.0	4.44	422.0
38.0	4.44	421.9
39.0	4.45	423.0
40.0	4.45	423.2
41.0	4.45	422.8
42.0	4.45	422.6
43.0	4.45	422.5
44.0	4.44	421.9
45.0	4.44	422.0
46.0	4.44	421.8
47.0	4.45	422.5
48.0	4.45	424.3
49.0	4.45	422.9
50.0	4.44	419.5
51.0	4.43	416.6
52.0	4.42	415.0
53.0	4.41	413.0
54.0	4.41	411.3
55.0	4.41	411.9
56.0	4.41	412.5
57.0	4.42	413.9
58.0	4.42	414.2
59.0	4.42	413.9
60.0	4.42	414.3
61.0	4.42	415.2
62.0	4.42	415.1
63.0	4.42	415.5
64.0	4.43	416.5
65.0	4.43	418.9
66.0	4.44	420.5
67.0	4.44	420.5
68.0	4.44	419.9
69.0	4.44	419.6
70.0	4.44	419.8
71.0	4.44	420.1
72.0	4.44	420.2
73.0	4.44	420.3
74.0	4.44	420.9
75.0	4.44	421.6
76.0	4.45	422.6
77.0	4.45	424.4
78.0	4.46	425.9
79.0	4.46	426.3
80.0	4.46	426.2
81.0	4.46	425.6
82.0	4.46	425.6
83.0	4.46	426.0
84.0	4.46	426.2
85.0	4.46	426.8
86.0	4.46	427.9
87.0	4.47	428.9
88.0	4.47	429.8
89.0	4.47	430.8
90.0	4.48	432.1
91.0	4.48	432.8
92.0	4.48	433.7

Proposed WACG-FM F(50,10) 100 dBu 3 Second Terrain

93.0	4.48	435.3
94.0	4.49	437.6
95.0	4.49	438.7
96.0	4.49	438.9
97.0	4.49	438.9
98.0	4.49	439.2
99.0	4.50	439.7
100.0	4.50	440.4
101.0	4.50	440.9
102.0	4.50	441.8
103.0	4.50	442.8
104.0	4.51	443.7
105.0	4.51	444.4
106.0	4.51	444.9
107.0	4.51	445.4
108.0	4.51	446.2
109.0	4.51	447.3
110.0	4.51	448.2
111.0	4.52	449.1
112.0	4.52	450.3
113.0	4.52	451.6
114.0	4.52	453.3
115.0	4.52	455.6
116.0	4.53	457.8
117.0	4.53	459.1
118.0	4.53	459.5
119.0	4.53	459.8
120.0	4.53	460.5
121.0	4.53	461.6
122.0	4.53	462.6
123.0	4.53	463.3
124.0	4.53	463.9
125.0	4.53	463.7
126.0	4.53	462.7
127.0	4.53	461.5
128.0	4.53	459.4
129.0	4.53	457.6
130.0	4.52	456.0
131.0	4.52	453.9
132.0	4.52	452.0
133.0	4.52	451.3
134.0	4.52	450.5
135.0	4.52	449.1
136.0	4.51	448.5
137.0	4.51	448.3
138.0	4.51	448.2
139.0	4.51	446.8
140.0	4.51	444.8
141.0	4.50	443.4
142.0	4.50	442.2
143.0	4.50	441.6
144.0	4.50	440.6
145.0	4.50	439.7
146.0	4.49	438.8
147.0	4.49	437.9
148.0	4.49	437.3
149.0	4.49	436.9

# Proposed WACG-FM F(50,10) 100 dBu 3 Second Terrain

150.0	4.49	437.1
151.0	4.49	437.3
152.0	4.49	437.2
153.0	4.49	437.2
154.0	4.49	437.5
155.0	4.49	437.7
156.0	4.49	437.6
157.0	4.49	437.5
158.0	4.49	437.0
159.0	4.49	436.4
160.0	4.49	436.3
161.0	4.49	436.1
162.0	4.49	436.5
163.0	4.49	436.7
164.0	4.49	436.7
165.0	4.49	436.4
166.0	4.49	436.1
167.0	4.48	435.2
168.0	4.48	434.0
169.0	4.48	433.5
170.0	4.48	433.4
171.0	4.48	433.1
172.0	4.48	432.7
173.0	4.48	432.2
174.0	4.48	432.3
175.0	4.48	432.7
176.0	4.48	432.9
177.0	4.48	433.2
178.0	4.48	433.6
179.0	4.48	434.0
180.0	4.48	434.4
181.0	4.48	434.7
182.0	4.48	435.0
183.0	4.49	435.9
184.0	4.49	436.1
185.0	4.49	435.6
186.0	4.48	434.8
187.0	4.48	434.0
188.0	4.48	433.5
189.0	4.48	433.6
190.0	4.48	434.0
191.0	4.48	434.1
192.0	4.48	434.2
193.0	4.48	434.3
194.0	4.48	434.5
195.0	4.48	434.3
196.0	4.48	434.1
197.0	4.48	433.8
198.0	4.48	433.8
199.0	4.48	434.3
200.0	4.48	433.8
201.0	4.48	433.4
202.0	4.48	433.1
203.0	4.48	432.4
204.0	4.47	431.4
205.0	4.47	430.4
206.0	4.47	429.6



Proposed WACG-FM F(50,10) 100 dBu 3 Second Terrain

207.0	4.47	429.4
208.0	4.47	430.0
209.0	4.47	430.8
210.0	4.47	430.6
211.0	4.47	429.8
212.0	4.47	429.0
213.0	4.47	428.6
214.0	4.46	428.3
215.0	4.47	428.5
216.0	4.47	429.0
217.0	4.47	429.6
218.0	4.47	430.0
219.0	4.47	430.3
220.0	4.47	430.4
221.0	4.47	430.5
222.0	4.47	430.4
223.0	4.47	430.4
224.0	4.47	430.5
225.0	4.47	430.4
226.0	4.47	430.6
227.0	4.47	430.4
228.0	4.47	430.3
229.0	4.47	430.2
230.0	4.47	429.7
231.0	4.47	429.3
232.0	4.47	429.1
233.0	4.47	429.0
234.0	4.47	428.9
235.0	4.47	428.7
236.0	4.46	427.7
237.0	4.46	426.8
238.0	4.46	426.3
239.0	4.46	425.8
240.0	4.45	425.0
241.0	4.45	423.0
242.0	4.44	421.8
243.0	4.44	421.1
244.0	4.44	419.9
245.0	4.43	419.0
246.0	4.43	418.6
247.0	4.43	418.4
248.0	4.43	418.4
249.0	4.43	418.2
250.0	4.43	417.9
251.0	4.43	417.3
252.0	4.43	416.8
253.0	4.43	416.6
254.0	4.43	416.3
255.0	4.43	416.3
256.0	4.43	416.3
257.0	4.43	416.3
258.0	4.43	416.3
259.0	4.43	416.8
260.0	4.43	417.7
261.0	4.43	418.5
262.0	4.43	418.5
263.0	4.43	418.2

# Proposed WACG-FM F(50,10) 100 dBu 3 Second Terrain

264.0	4.43	417.9
265.0	4.43	417.7
266.0	4.43	417.2
267.0	4.43	416.7
268.0	4.42	416.1
269.0	4.42	416.1
270.0	4.43	416.6
271.0	4.43	417.3
272.0	4.43	417.9
273.0	4.43	417.8
274.0	4.43	418.3
275.0	4.43	418.1
276.0	4.43	418.6
277.0	4.44	420.1
278.0	4.44	422.2
279.0	4.45	424.6
280.0	4.46	427.1
281.0	4.47	430.4
282.0	4.48	432.0
283.0	4.47	430.5
284.0	4.47	428.9
285.0	4.46	426.1
286.0	4.45	422.2
287.0	4.43	417.8
288.0	4.41	413.2
289.0	4.40	409.7
290.0	4.40	409.7
291.0	4.41	412.4
292.0	4.42	414.3
293.0	4.42	415.5
294.0	4.43	416.8
295.0	4.43	418.6
296.0	4.44	420.4
297.0	4.45	424.0
298.0	4.47	428.4
299.0	4.47	431.6
300.0	4.48	434.8
301.0	4.49	436.6
302.0	4.49	437.2
303.0	4.49	437.0
304.0	4.49	436.5
305.0	4.49	436.0
306.0	4.48	435.3
307.0	4.48	435.3
308.0	4.48	434.9
309.0	4.48	434.4
310.0	4.48	434.4
311.0	4.48	434.2
312.0	4.48	433.5
313.0	4.48	431.9
314.0	4.47	430.9
315.0	4.47	429.9
316.0	4.47	430.1
317.0	4.47	431.7
318.0	4.48	433.9
319.0	4.49	436.4
320.0	4.49	438.5

Proposed WACG-FM F(50,10) 100 dBu 3 Second Terrain

321.0	4.50	440.2
322.0	4.50	442.9
323.0	4.51	445.2
324.0	4.51	445.8
325.0	4.51	444.8
326.0	4.50	442.7
327.0	4.50	439.2
328.0	4.49	435.9
329.0	4.48	432.7
330.0	4.47	429.2
331.0	4.46	425.9
332.0	4.45	422.4
333.0	4.43	418.7
334.0	4.43	416.6
335.0	4.42	415.1
336.0	4.41	412.2
337.0	4.40	409.0
338.0	4.39	406.0
339.0	4.38	404.0
340.0	4.38	402.4
341.0	4.38	402.8
342.0	4.38	404.5
343.0	4.40	407.8
344.0	4.41	411.8
345.0	4.42	413.7
346.0	4.42	414.8
347.0	4.42	415.1
348.0	4.42	414.4
349.0	4.42	415.0
350.0	4.42	415.5
351.0	4.42	415.5
352.0	4.42	414.5
353.0	4.43	417.3
354.0	4.43	417.1
355.0	4.43	417.8
356.0	4.44	419.4
357.0	4.44	420.7
358.0	4.44	419.4
359.0	4.44	420.2

Average HAAT for radials shown: 428.9 m

# WVNG-FM F(50,50) 60 dBu 3 Second Terrain

Call Letters: WVNG-FM CP  
 File Number: BMPED20080814ADW  
 Latitude: 33-40-33 N  
 Longitude: 082-37-15.30 W  
 ERP: 5.00 kW  
 Channel: 212  
 Frequency: 90.3 MHz  
 AMSL Height: 220.0 m  
 Elevation: 154.0 m  
 HAAT: 82.0 m  
 Horiz. Antenna Pattern: Omni

Type of contour: FCC  
 Location Variability: 50.0 %  
 Time Variability: 50.0 %  
 # of Radials Calculated: 360  
 Field Strength: 60.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
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0.0	24.0	76.5
1.0	23.9	76.3
2.0	23.9	76.0
3.0	23.8	75.5
4.0	23.8	75.1
5.0	23.6	74.3
6.0	23.6	73.8
7.0	23.5	73.2
8.0	23.2	71.5
9.0	23.1	70.4
10.0	22.9	69.4
11.0	22.8	68.5
12.0	22.7	67.9
13.0	22.7	67.7
14.0	22.5	66.7
15.0	22.4	66.2
16.0	22.6	67.3
17.0	22.6	67.3
18.0	22.4	65.6
19.0	22.1	64.0
20.0	22.1	64.0
21.0	22.1	64.0
22.0	22.1	64.0
23.0	22.0	63.4
24.0	21.9	62.5
25.0	21.8	61.8
26.0	21.8	62.0
27.0	22.0	62.9
28.0	22.2	64.8
29.0	22.8	68.4
30.0	23.1	70.6
31.0	23.2	71.5
32.0	23.1	70.8
33.0	22.9	69.6
34.0	22.6	67.0

# WVNG-FM F(50,50) 60 dBu 3 Second Terrain

35.0	22.3	65.1
36.0	22.2	64.7
37.0	22.2	64.6
38.0	22.5	66.9
39.0	22.9	69.1
40.0	23.2	71.1
41.0	23.2	71.5
42.0	22.9	69.5
43.0	22.5	66.5
44.0	22.1	64.1
45.0	22.0	63.3
46.0	22.0	63.2
47.0	22.0	63.4
48.0	22.0	63.0
49.0	21.7	61.4
50.0	21.2	58.0
51.0	21.1	57.2
52.0	21.7	61.3
53.0	22.3	65.0
54.0	22.6	67.1
55.0	22.7	67.9
56.0	22.8	68.6
57.0	22.9	69.4
58.0	23.0	69.9
59.0	23.1	70.9
60.0	23.4	72.5
61.0	23.6	74.3
62.0	23.8	75.6
63.0	24.1	77.4
64.0	24.3	79.2
65.0	24.5	80.3
66.0	24.6	80.7
67.0	24.6	80.8
68.0	24.7	81.5
69.0	24.7	82.1
70.0	24.8	82.6
71.0	25.0	83.6
72.0	25.1	84.8
73.0	25.3	86.3
74.0	25.5	87.4
75.0	25.6	88.3
76.0	25.7	89.0
77.0	25.8	89.8
78.0	25.9	90.6
79.0	26.0	91.0
80.0	26.0	91.2
81.0	26.1	91.6
82.0	26.1	92.1
83.0	26.2	92.5
84.0	26.3	93.0
85.0	26.3	93.4
86.0	26.5	94.7
87.0	26.7	96.2
88.0	26.7	96.7
89.0	26.7	96.1
90.0	26.4	94.5
91.0	26.3	93.5

# WVNG-FM F(50,50) 60 dBu 3 Second Terrain

92.0	26.4	94.1
93.0	26.5	94.7
94.0	26.6	95.5
95.0	26.8	97.3
96.0	27.1	99.6
97.0	27.4	101.9
98.0	27.7	103.9
99.0	27.9	105.9
100.0	28.1	107.7
101.0	28.3	109.5
102.0	28.6	111.5
103.0	28.7	113.0
104.0	28.8	114.1
105.0	28.8	114.1
106.0	28.7	112.6
107.0	28.5	110.9
108.0	28.4	110.6
109.0	28.5	110.9
110.0	28.5	111.1
111.0	28.6	111.6
112.0	28.7	112.6
113.0	28.6	112.1
114.0	28.6	111.6
115.0	28.5	111.5
116.0	28.5	111.4
117.0	28.5	111.5
118.0	28.6	111.7
119.0	28.6	112.3
120.0	28.9	114.3
121.0	29.0	115.7
122.0	29.1	116.5
123.0	29.1	116.3
124.0	28.9	115.0
125.0	28.8	113.6
126.0	28.6	112.2
127.0	28.4	110.6
128.0	28.4	110.2
129.0	28.5	110.7
130.0	28.5	110.7
131.0	28.2	108.4
132.0	27.8	105.3
133.0	27.6	103.8
134.0	27.6	103.7
135.0	27.6	103.6
136.0	27.6	103.3
137.0	27.4	101.8
138.0	27.3	101.1
139.0	27.3	101.2
140.0	27.2	100.7
141.0	27.1	99.2
142.0	26.9	98.3
143.0	26.9	97.9
144.0	26.8	97.0
145.0	26.7	96.7
146.0	26.7	96.2
147.0	26.6	95.5
148.0	26.4	93.9

# WVNG-FM F(50,50) 60 dBu 3 Second Terrain

149.0	26.3	93.5
150.0	26.3	93.2
151.0	26.2	92.4
152.0	26.2	92.4
153.0	26.0	91.5
154.0	25.8	89.6
155.0	25.7	89.0
156.0	25.7	89.2
157.0	25.8	89.6
158.0	25.9	90.5
159.0	26.0	90.8
160.0	26.0	91.1
161.0	26.0	91.0
162.0	25.9	90.1
163.0	25.7	89.0
164.0	25.6	88.6
165.0	25.5	87.6
166.0	25.4	86.4
167.0	25.3	86.1
168.0	25.3	85.9
169.0	25.2	85.4
170.0	25.1	84.7
171.0	25.1	84.6
172.0	25.1	84.3
173.0	25.0	84.0
174.0	24.9	83.5
175.0	24.9	83.1
176.0	24.9	83.4
177.0	25.1	84.3
178.0	25.2	85.6
179.0	25.4	86.5
180.0	25.4	86.5
181.0	25.3	86.0
182.0	25.2	85.2
183.0	25.1	84.3
184.0	24.9	83.1
185.0	24.8	82.1
186.0	24.6	81.4
187.0	24.6	81.0
188.0	24.5	80.7
189.0	24.5	80.5
190.0	24.6	81.2
191.0	24.8	82.5
192.0	24.9	83.5
193.0	25.1	84.8
194.0	25.3	85.8
195.0	25.3	86.1
196.0	25.3	86.4
197.0	25.3	86.0
198.0	24.9	83.4
199.0	24.7	82.0
200.0	24.7	81.6
201.0	24.6	81.0
202.0	24.4	80.0
203.0	24.5	80.6
204.0	24.8	82.8
205.0	25.1	84.5

# WVNG-FM F(50,50) 60 dBu 3 Second Terrain

206.0	25.0	83.7
207.0	24.8	82.5
208.0	24.5	80.6
209.0	24.6	80.9
210.0	24.6	80.9
211.0	24.7	81.7
212.0	24.9	83.5
213.0	25.2	85.7
214.0	25.4	87.0
215.0	25.4	86.7
216.0	25.4	86.5
217.0	25.2	85.7
218.0	25.1	84.9
219.0	25.1	84.6
220.0	25.1	84.8
221.0	25.2	85.0
222.0	25.0	84.1
223.0	24.7	82.0
224.0	24.5	80.1
225.0	24.4	79.8
226.0	24.5	80.4
227.0	24.5	80.0
228.0	24.4	79.9
229.0	24.4	79.9
230.0	24.4	79.6
231.0	24.4	79.4
232.0	24.4	79.5
233.0	24.4	79.8
234.0	24.5	80.5
235.0	24.7	81.8
236.0	24.9	83.3
237.0	24.9	82.9
238.0	24.7	81.8
239.0	24.6	80.7
240.0	24.4	79.8
241.0	24.2	78.0
242.0	23.9	76.2
243.0	23.9	75.8
244.0	23.7	75.0
245.0	23.8	75.5
246.0	23.9	76.5
247.0	24.0	76.7
248.0	24.1	77.8
249.0	24.1	77.5
250.0	24.1	77.7
251.0	24.0	77.1
252.0	24.0	76.7
253.0	24.0	77.2
254.0	24.1	77.5
255.0	24.1	77.4
256.0	24.1	77.9
257.0	24.2	78.5
258.0	24.2	78.1
259.0	24.3	78.6
260.0	24.7	81.4
261.0	24.8	82.3
262.0	24.7	82.1



# WVNG-FM F(50,50) 60 dBu 3 Second Terrain

263.0	24.5	80.0
264.0	24.2	78.4
265.0	24.1	77.8
266.0	24.0	77.1
267.0	23.8	75.8
268.0	23.6	74.2
269.0	23.5	73.2
270.0	23.3	72.2
271.0	23.3	72.3
272.0	23.4	72.8
273.0	23.4	72.7
274.0	23.4	72.8
275.0	23.6	73.9
276.0	23.8	75.7
277.0	23.7	75.0
278.0	23.6	74.0
279.0	23.5	73.2
280.0	23.2	71.6
281.0	23.0	70.0
282.0	22.9	69.3
283.0	22.8	68.5
284.0	22.7	68.2
285.0	22.7	68.2
286.0	22.7	68.1
287.0	22.7	67.7
288.0	22.6	67.1
289.0	22.5	66.5
290.0	22.4	65.7
291.0	22.2	64.3
292.0	21.9	62.5
293.0	21.6	60.9
294.0	21.4	59.3
295.0	21.1	57.7
296.0	20.9	56.5
297.0	20.7	55.4
298.0	20.4	53.7
299.0	20.0	51.5
300.0	19.7	50.1
301.0	19.7	50.2
302.0	19.7	50.2
303.0	19.8	50.4
304.0	19.9	51.2
305.0	20.0	51.8
306.0	20.2	52.4
307.0	20.4	53.8
308.0	20.7	55.3
309.0	21.1	57.5
310.0	21.5	59.8
311.0	21.8	61.8
312.0	22.1	63.6
313.0	22.2	64.5
314.0	22.3	65.3
315.0	22.4	66.2
316.0	22.6	67.0
317.0	22.6	67.4
318.0	22.6	67.5
319.0	22.6	67.6

# WVNG-FM F(50,50) 60 dBu 3 Second Terrain

320.0	22.8	68.4
321.0	22.8	68.9
322.0	22.9	69.0
323.0	22.9	69.6
324.0	23.1	70.5
325.0	23.2	71.4
326.0	23.3	71.9
327.0	23.3	72.2
328.0	23.4	72.9
329.0	23.6	74.3
330.0	23.8	75.5
331.0	24.0	76.5
332.0	23.9	76.5
333.0	23.9	75.8
334.0	23.9	75.9
335.0	24.0	76.6
336.0	24.0	77.2
337.0	24.1	77.8
338.0	24.2	78.5
339.0	24.4	79.9
340.0	24.7	81.5
341.0	24.8	82.6
342.0	24.8	82.6
343.0	24.8	82.1
344.0	24.7	81.4
345.0	24.5	80.5
346.0	24.4	79.5
347.0	24.2	78.3
348.0	24.1	77.6
349.0	24.1	77.7
350.0	24.2	78.1
351.0	24.2	77.9
352.0	24.1	77.5
353.0	24.0	77.1
354.0	24.0	77.2
355.0	24.0	76.9
356.0	24.0	76.8
357.0	24.0	77.0
358.0	24.0	77.0
359.0	24.0	76.8

Average HAAT for radials shown: 81.0 m

# WVNG-FM F(50,10) 100 dBu 3 Second Terrain

Call Letters: WVNG-FM CP  
 File Number: BMPED20080814ADW  
 Latitude: 33-40-33 N  
 Longitude: 082-37-15.30 W  
 ERP: 5.00 kW  
 Channel: 212  
 Frequency: 90.3 MHz  
 AMSL Height: 220.0 m  
 Elevation: 154.0 m  
 HAAT: 82.0 m  
 Horiz. Antenna Pattern: Omni

Type of contour: FCC  
 Location Variability: 50.0 %  
 Time Variability: 10.0 %  
 # of Radials Calculated: 360  
 Field Strength: 100.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	2.36	76.5
1.0	2.36	76.3
2.0	2.36	76.0
3.0	2.35	75.5
4.0	2.35	75.1
5.0	2.34	74.3
6.0	2.33	73.8
7.0	2.32	73.2
8.0	2.31	71.5
9.0	2.29	70.4
10.0	2.28	69.4
11.0	2.27	68.5
12.0	2.27	67.9
13.0	2.26	67.7
14.0	2.25	66.7
15.0	2.24	66.2
16.0	2.26	67.3
17.0	2.26	67.3
18.0	2.24	65.6
19.0	2.22	64.0
20.0	2.22	64.0
21.0	2.22	64.0
22.0	2.22	64.0
23.0	2.21	63.4
24.0	2.21	62.5
25.0	2.20	61.8
26.0	2.20	62.0
27.0	2.21	62.9
28.0	2.23	64.8
29.0	2.27	68.4
30.0	2.30	70.6
31.0	2.31	71.5
32.0	2.30	70.8
33.0	2.28	69.6
34.0	2.25	67.0

# WVNG-FM F(50,10) 100 dBu 3 Second Terrain

35.0	2.23	65.1
36.0	2.23	64.7
37.0	2.23	64.6
38.0	2.25	66.9
39.0	2.28	69.1
40.0	2.30	71.1
41.0	2.31	71.5
42.0	2.28	69.5
43.0	2.25	66.5
44.0	2.22	64.1
45.0	2.21	63.3
46.0	2.21	63.2
47.0	2.22	63.4
48.0	2.21	63.0
49.0	2.20	61.4
50.0	2.15	58.0
51.0	2.14	57.2
52.0	2.19	61.3
53.0	2.23	65.0
54.0	2.25	67.1
55.0	2.26	67.9
56.0	2.27	68.6
57.0	2.28	69.4
58.0	2.29	69.9
59.0	2.30	70.9
60.0	2.32	72.5
61.0	2.34	74.3
62.0	2.35	75.6
63.0	2.37	77.4
64.0	2.39	79.2
65.0	2.41	80.3
66.0	2.41	80.7
67.0	2.41	80.8
68.0	2.42	81.5
69.0	2.43	82.1
70.0	2.43	82.6
71.0	2.44	83.6
72.0	2.46	84.8
73.0	2.47	86.3
74.0	2.48	87.4
75.0	2.49	88.3
76.0	2.50	89.0
77.0	2.51	89.8
78.0	2.52	90.6
79.0	2.52	91.0
80.0	2.52	91.2
81.0	2.53	91.6
82.0	2.53	92.1
83.0	2.54	92.5
84.0	2.54	93.0
85.0	2.55	93.4
86.0	2.56	94.7
87.0	2.58	96.2
88.0	2.59	96.7
89.0	2.58	96.1
90.0	2.56	94.5
91.0	2.55	93.5

# WVNG-FM F(50,10) 100 dBu 3 Second Terrain

92.0	2.56	94.1
93.0	2.56	94.7
94.0	2.57	95.5
95.0	2.59	97.3
96.0	2.62	99.6
97.0	2.64	101.9
98.0	2.67	103.9
99.0	2.69	105.9
100.0	2.70	107.7
101.0	2.72	109.5
102.0	2.74	111.5
103.0	2.75	113.0
104.0	2.76	114.1
105.0	2.76	114.1
106.0	2.75	112.6
107.0	2.73	110.9
108.0	2.73	110.6
109.0	2.73	110.9
110.0	2.74	111.1
111.0	2.74	111.6
112.0	2.75	112.6
113.0	2.75	112.1
114.0	2.74	111.6
115.0	2.74	111.5
116.0	2.74	111.4
117.0	2.74	111.5
118.0	2.74	111.7
119.0	2.75	112.3
120.0	2.76	114.3
121.0	2.78	115.7
122.0	2.78	116.5
123.0	2.78	116.3
124.0	2.77	115.0
125.0	2.76	113.6
126.0	2.75	112.2
127.0	2.73	110.6
128.0	2.73	110.2
129.0	2.73	110.7
130.0	2.73	110.7
131.0	2.71	108.4
132.0	2.68	105.3
133.0	2.66	103.8
134.0	2.66	103.7
135.0	2.66	103.6
136.0	2.66	103.3
137.0	2.64	101.8
138.0	2.64	101.1
139.0	2.64	101.2
140.0	2.63	100.7
141.0	2.62	99.2
142.0	2.61	98.3
143.0	2.60	97.9
144.0	2.59	97.0
145.0	2.59	96.7
146.0	2.58	96.2
147.0	2.57	95.5
148.0	2.55	93.9

# WVNG-FM F(50,10) 100 dBu 3 Second Terrain

149.0	2.55	93.5
150.0	2.55	93.2
151.0	2.54	92.4
152.0	2.54	92.4
153.0	2.53	91.5
154.0	2.51	89.6
155.0	2.50	89.0
156.0	2.50	89.2
157.0	2.51	89.6
158.0	2.52	90.5
159.0	2.52	90.8
160.0	2.52	91.1
161.0	2.52	91.0
162.0	2.51	90.1
163.0	2.50	89.0
164.0	2.50	88.6
165.0	2.49	87.6
166.0	2.47	86.4
167.0	2.47	86.1
168.0	2.47	85.9
169.0	2.46	85.4
170.0	2.45	84.7
171.0	2.45	84.6
172.0	2.45	84.3
173.0	2.45	84.0
174.0	2.44	83.5
175.0	2.44	83.1
176.0	2.44	83.4
177.0	2.45	84.3
178.0	2.46	85.6
179.0	2.47	86.5
180.0	2.47	86.5
181.0	2.47	86.0
182.0	2.46	85.2
183.0	2.45	84.3
184.0	2.44	83.1
185.0	2.43	82.1
186.0	2.42	81.4
187.0	2.41	81.0
188.0	2.41	80.7
189.0	2.41	80.5
190.0	2.42	81.2
191.0	2.43	82.5
192.0	2.44	83.5
193.0	2.46	84.8
194.0	2.47	85.8
195.0	2.47	86.1
196.0	2.47	86.4
197.0	2.47	86.0
198.0	2.44	83.4
199.0	2.42	82.0
200.0	2.42	81.6
201.0	2.41	81.0
202.0	2.40	80.0
203.0	2.41	80.6
204.0	2.43	82.8
205.0	2.45	84.5

# WVNG-FM F(50,10) 100 dBu 3 Second Terrain

206.0	2.44	83.7
207.0	2.43	82.5
208.0	2.41	80.6
209.0	2.41	80.9
210.0	2.41	80.9
211.0	2.42	81.7
212.0	2.44	83.5
213.0	2.47	85.7
214.0	2.48	87.0
215.0	2.48	86.7
216.0	2.47	86.5
217.0	2.47	85.7
218.0	2.46	84.9
219.0	2.45	84.6
220.0	2.46	84.8
221.0	2.46	85.0
222.0	2.45	84.1
223.0	2.42	82.0
224.0	2.40	80.1
225.0	2.40	79.8
226.0	2.41	80.4
227.0	2.40	80.0
228.0	2.40	79.9
229.0	2.40	79.9
230.0	2.40	79.6
231.0	2.39	79.4
232.0	2.40	79.5
233.0	2.40	79.8
234.0	2.41	80.5
235.0	2.42	81.8
236.0	2.44	83.3
237.0	2.43	82.9
238.0	2.42	81.8
239.0	2.41	80.7
240.0	2.40	79.8
241.0	2.38	78.0
242.0	2.36	76.2
243.0	2.36	75.8
244.0	2.35	75.0
245.0	2.35	75.5
246.0	2.36	76.5
247.0	2.37	76.7
248.0	2.38	77.8
249.0	2.37	77.5
250.0	2.38	77.7
251.0	2.37	77.1
252.0	2.37	76.7
253.0	2.37	77.2
254.0	2.37	77.5
255.0	2.37	77.4
256.0	2.38	77.9
257.0	2.38	78.5
258.0	2.38	78.1
259.0	2.39	78.6
260.0	2.42	81.4
261.0	2.43	82.3
262.0	2.43	82.1

# WVNG-FM F(50,10) 100 dBu 3 Second Terrain

263.0	2.40	80.0
264.0	2.38	78.4
265.0	2.38	77.8
266.0	2.37	77.1
267.0	2.35	75.8
268.0	2.34	74.2
269.0	2.33	73.2
270.0	2.31	72.2
271.0	2.32	72.3
272.0	2.32	72.8
273.0	2.32	72.7
274.0	2.32	72.8
275.0	2.33	73.9
276.0	2.35	75.7
277.0	2.35	75.0
278.0	2.33	74.0
279.0	2.33	73.2
280.0	2.31	71.6
281.0	2.29	70.0
282.0	2.28	69.3
283.0	2.27	68.5
284.0	2.27	68.2
285.0	2.27	68.2
286.0	2.27	68.1
287.0	2.26	67.7
288.0	2.25	67.1
289.0	2.25	66.5
290.0	2.24	65.7
291.0	2.22	64.3
292.0	2.21	62.5
293.0	2.19	60.9
294.0	2.17	59.3
295.0	2.15	57.7
296.0	2.13	56.5
297.0	2.12	55.4
298.0	2.09	53.7
299.0	2.05	51.5
300.0	2.02	50.1
301.0	2.02	50.2
302.0	2.02	50.2
303.0	2.03	50.4
304.0	2.04	51.2
305.0	2.05	51.8
306.0	2.06	52.4
307.0	2.09	53.8
308.0	2.11	55.3
309.0	2.15	57.5
310.0	2.18	59.8
311.0	2.20	61.8
312.0	2.22	63.6
313.0	2.23	64.5
314.0	2.24	65.3
315.0	2.24	66.2
316.0	2.25	67.0
317.0	2.26	67.4
318.0	2.26	67.5
319.0	2.26	67.6



# WVNG-FM F(50,10) 100 dBu 3 Second Terrain

320.0	2.27	68.4
321.0	2.28	68.9
322.0	2.28	69.0
323.0	2.28	69.6
324.0	2.29	70.5
325.0	2.31	71.4
326.0	2.31	71.9
327.0	2.31	72.2
328.0	2.32	72.9
329.0	2.34	74.3
330.0	2.35	75.5
331.0	2.36	76.5
332.0	2.36	76.5
333.0	2.36	75.8
334.0	2.36	75.9
335.0	2.36	76.6
336.0	2.37	77.2
337.0	2.38	77.8
338.0	2.39	78.5
339.0	2.40	79.9
340.0	2.42	81.5
341.0	2.43	82.6
342.0	2.43	82.6
343.0	2.43	82.1
344.0	2.42	81.4
345.0	2.41	80.5
346.0	2.40	79.5
347.0	2.38	78.3
348.0	2.38	77.6
349.0	2.38	77.7
350.0	2.38	78.1
351.0	2.38	77.9
352.0	2.37	77.5
353.0	2.37	77.1
354.0	2.37	77.2
355.0	2.37	76.9
356.0	2.37	76.8
357.0	2.37	77.0
358.0	2.37	77.0
359.0	2.37	76.8

Average HAAT for radials shown: 81.0 m



## Proposed WACG-FM F(50,10) 54 dBu 3 Second Terrain

Call Letters: WACG-FM APP  
Latitude: 33-15-33 N  
Longitude: 082-17-09 W  
ERP: 5.60 kW  
Channel: 214  
Frequency: 90.7 MHz  
AMSL Height: 544.0 m  
Elevation: 132.5 m  
HAAT: 429.4 m  
Horiz. Antenna Pattern: Omni

Type of contour: FCC  
Location Variability: 50.0 %  
Time Variability: 10.0 %  
# of Radials Calculated: 360  
Field Strength: 54.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	77.7	419.5
1.0	77.6	418.5
2.0	77.6	418.1
3.0	77.6	417.8
4.0	77.5	417.3
5.0	77.5	417.1
6.0	77.6	417.9
7.0	77.7	419.1
8.0	77.7	419.6
9.0	77.8	420.1
10.0	77.9	421.7
11.0	78.0	423.0
12.0	78.1	423.4
13.0	78.2	425.2
14.0	78.3	425.5
15.0	78.2	425.3
16.0	78.2	424.4
17.0	78.1	423.6
18.0	78.0	422.7
19.0	77.8	420.4
20.0	77.6	418.2
21.0	77.5	416.8
22.0	77.5	416.6
23.0	77.5	416.4
24.0	77.5	417.0
25.0	77.6	418.5
26.0	77.6	418.1
27.0	77.6	418.5
28.0	77.7	419.2
29.0	77.8	420.7
30.0	77.9	421.6
31.0	78.0	422.3
32.0	78.0	423.1
33.0	78.2	424.4
34.0	78.3	425.5
35.0	78.2	425.1

Proposed WACG-FM F(50,10) 54 dBu 3 Second Terrain

36.0	78.1	423.7
37.0	77.9	422.0
38.0	77.9	421.9
39.0	78.0	423.0
40.0	78.1	423.2
41.0	78.0	422.8
42.0	78.0	422.6
43.0	78.0	422.5
44.0	77.9	421.9
45.0	77.9	422.0
46.0	77.9	421.8
47.0	78.0	422.5
48.0	78.2	424.3
49.0	78.0	422.9
50.0	77.7	419.5
51.0	77.5	416.6
52.0	77.3	415.0
53.0	77.1	413.0
54.0	77.0	411.3
55.0	77.0	411.9
56.0	77.1	412.5
57.0	77.2	413.9
58.0	77.3	414.2
59.0	77.2	413.9
60.0	77.3	414.3
61.0	77.3	415.2
62.0	77.3	415.1
63.0	77.4	415.5
64.0	77.5	416.5
65.0	77.7	418.9
66.0	77.8	420.5
67.0	77.8	420.5
68.0	77.8	419.9
69.0	77.7	419.6
70.0	77.7	419.8
71.0	77.8	420.1
72.0	77.8	420.2
73.0	77.8	420.3
74.0	77.9	420.9
75.0	77.9	421.6
76.0	78.0	422.6
77.0	78.2	424.4
78.0	78.3	425.9
79.0	78.3	426.3
80.0	78.3	426.2
81.0	78.3	425.6
82.0	78.3	425.6
83.0	78.3	426.0
84.0	78.3	426.2
85.0	78.4	426.8
86.0	78.5	427.9
87.0	78.6	428.9
88.0	78.6	429.8
89.0	78.7	430.8
90.0	78.8	432.1
91.0	78.9	432.8
92.0	79.0	433.7

# Proposed WACG-FM F(50,10) 54 dBu 3 Second Terrain

93.0	79.1	435.3
94.0	79.3	437.6
95.0	79.4	438.7
96.0	79.4	438.9
97.0	79.4	438.9
98.0	79.5	439.2
99.0	79.5	439.7
100.0	79.6	440.4
101.0	79.6	440.9
102.0	79.7	441.8
103.0	79.8	442.8
104.0	79.9	443.7
105.0	79.9	444.4
106.0	80.0	444.9
107.0	80.0	445.4
108.0	80.1	446.2
109.0	80.2	447.3
110.0	80.3	448.2
111.0	80.3	449.1
112.0	80.4	450.3
113.0	80.6	451.6
114.0	80.7	453.3
115.0	80.9	455.6
116.0	81.1	457.8
117.0	81.2	459.1
118.0	81.2	459.5
119.0	81.2	459.8
120.0	81.3	460.5
121.0	81.4	461.6
122.0	81.5	462.6
123.0	81.5	463.3
124.0	81.6	463.9
125.0	81.6	463.7
126.0	81.5	462.7
127.0	81.4	461.5
128.0	81.2	459.4
129.0	81.1	457.6
130.0	80.9	456.0
131.0	80.7	453.9
132.0	80.6	452.0
133.0	80.5	451.3
134.0	80.4	450.5
135.0	80.3	449.1
136.0	80.3	448.5
137.0	80.3	448.3
138.0	80.3	448.2
139.0	80.1	446.8
140.0	80.0	444.8
141.0	79.8	443.4
142.0	79.7	442.2
143.0	79.7	441.6
144.0	79.6	440.6
145.0	79.5	439.7
146.0	79.4	438.8
147.0	79.4	437.9
148.0	79.3	437.3
149.0	79.3	436.9

# Proposed WACG-FM F(50,10) 54 dBu 3 Second Terrain

150.0	79.3	437.1
151.0	79.3	437.3
152.0	79.3	437.2
153.0	79.3	437.2
154.0	79.3	437.5
155.0	79.3	437.7
156.0	79.3	437.6
157.0	79.3	437.5
158.0	79.3	437.0
159.0	79.2	436.4
160.0	79.2	436.3
161.0	79.2	436.1
162.0	79.2	436.5
163.0	79.2	436.7
164.0	79.2	436.7
165.0	79.2	436.4
166.0	79.2	436.1
167.0	79.1	435.2
168.0	79.0	434.0
169.0	79.0	433.5
170.0	79.0	433.4
171.0	78.9	433.1
172.0	78.9	432.7
173.0	78.8	432.2
174.0	78.9	432.3
175.0	78.9	432.7
176.0	78.9	432.9
177.0	78.9	433.2
178.0	79.0	433.6
179.0	79.0	434.0
180.0	79.0	434.4
181.0	79.1	434.7
182.0	79.1	435.0
183.0	79.2	435.9
184.0	79.2	436.1
185.0	79.1	435.6
186.0	79.1	434.8
187.0	79.0	434.0
188.0	79.0	433.5
189.0	79.0	433.6
190.0	79.0	434.0
191.0	79.0	434.1
192.0	79.0	434.2
193.0	79.0	434.3
194.0	79.1	434.5
195.0	79.0	434.3
196.0	79.0	434.1
197.0	79.0	433.8
198.0	79.0	433.8
199.0	79.0	434.3
200.0	79.0	433.8
201.0	79.0	433.4
202.0	78.9	433.1
203.0	78.9	432.4
204.0	78.8	431.4
205.0	78.7	430.4
206.0	78.6	429.6

# Proposed WACG-FM F(50,10) 54 dBu 3 Second Terrain

207.0	78.6	429.4
208.0	78.7	430.0
209.0	78.7	430.8
210.0	78.7	430.6
211.0	78.6	429.8
212.0	78.6	429.0
213.0	78.5	428.6
214.0	78.5	428.3
215.0	78.5	428.5
216.0	78.6	429.0
217.0	78.6	429.6
218.0	78.7	430.0
219.0	78.7	430.3
220.0	78.7	430.4
221.0	78.7	430.5
222.0	78.7	430.4
223.0	78.7	430.4
224.0	78.7	430.5
225.0	78.7	430.4
226.0	78.7	430.6
227.0	78.7	430.4
228.0	78.7	430.3
229.0	78.7	430.2
230.0	78.6	429.7
231.0	78.6	429.3
232.0	78.6	429.1
233.0	78.6	429.0
234.0	78.6	428.9
235.0	78.5	428.7
236.0	78.5	427.7
237.0	78.4	426.8
238.0	78.3	426.3
239.0	78.3	425.8
240.0	78.2	425.0
241.0	78.0	423.0
242.0	77.9	421.8
243.0	77.9	421.1
244.0	77.8	419.9
245.0	77.7	419.0
246.0	77.6	418.6
247.0	77.6	418.4
248.0	77.6	418.4
249.0	77.6	418.2
250.0	77.6	417.9
251.0	77.5	417.3
252.0	77.5	416.8
253.0	77.5	416.6
254.0	77.4	416.3
255.0	77.4	416.3
256.0	77.4	416.3
257.0	77.4	416.3
258.0	77.4	416.3
259.0	77.5	416.8
260.0	77.6	417.7
261.0	77.6	418.5
262.0	77.6	418.5
263.0	77.6	418.2

Proposed WACG-FM F(50,10) 54 dBu 3 Second Terrain

264.0	77.6	417.9
265.0	77.6	417.7
266.0	77.5	417.2
267.0	77.5	416.7
268.0	77.4	416.1
269.0	77.4	416.1
270.0	77.5	416.6
271.0	77.5	417.3
272.0	77.6	417.9
273.0	77.6	417.8
274.0	77.6	418.3
275.0	77.6	418.1
276.0	77.6	418.6
277.0	77.8	420.1
278.0	78.0	422.2
279.0	78.2	424.6
280.0	78.4	427.1
281.0	78.7	430.4
282.0	78.8	432.0
283.0	78.7	430.5
284.0	78.6	428.9
285.0	78.3	426.1
286.0	78.0	422.2
287.0	77.6	417.8
288.0	77.2	413.2
289.0	76.9	409.7
290.0	76.9	409.7
291.0	77.1	412.4
292.0	77.3	414.3
293.0	77.4	415.5
294.0	77.5	416.8
295.0	77.6	418.6
296.0	77.8	420.4
297.0	78.1	424.0
298.0	78.5	428.4
299.0	78.8	431.6
300.0	79.1	434.8
301.0	79.2	436.6
302.0	79.3	437.2
303.0	79.3	437.0
304.0	79.2	436.5
305.0	79.2	436.0
306.0	79.1	435.3
307.0	79.1	435.3
308.0	79.1	434.9
309.0	79.0	434.4
310.0	79.0	434.4
311.0	79.0	434.2
312.0	79.0	433.5
313.0	78.8	431.9
314.0	78.7	430.9
315.0	78.6	429.9
316.0	78.7	430.1
317.0	78.8	431.7
318.0	79.0	433.9
319.0	79.2	436.4
320.0	79.4	438.5



Proposed WACG-FM F(50,10) 54 dBu 3 Second Terrain

321.0	79.6	440.2
322.0	79.8	442.9
323.0	80.0	445.2
324.0	80.0	445.8
325.0	80.0	444.8
326.0	79.8	442.7
327.0	79.5	439.2
328.0	79.2	435.9
329.0	78.9	432.7
330.0	78.6	429.2
331.0	78.3	425.9
332.0	78.0	422.4
333.0	77.7	418.7
334.0	77.5	416.6
335.0	77.3	415.1
336.0	77.1	412.2
337.0	76.8	409.0
338.0	76.5	406.0
339.0	76.3	404.0
340.0	76.2	402.4
341.0	76.2	402.8
342.0	76.4	404.5
343.0	76.7	407.8
344.0	77.0	411.8
345.0	77.2	413.7
346.0	77.3	414.8
347.0	77.3	415.1
348.0	77.3	414.4
349.0	77.3	415.0
350.0	77.4	415.5
351.0	77.4	415.5
352.0	77.3	414.5
353.0	77.5	417.3
354.0	77.5	417.1
355.0	77.6	417.8
356.0	77.7	419.4
357.0	77.8	420.7
358.0	77.7	419.4
359.0	77.8	420.2

Average HAAT for radials shown: 428.9 m

# WPWB-FM F(50,50) 60 dBu 3 Second Terrain

Call Letters: WPWB-FM LIC  
 File Number: BLED19900319KA  
 Latitude: 32-40-55 N  
 Longitude: 083-22-10 W  
 ERP: 16.50 kW  
 Channel: 213  
 Frequency: 90.5 MHz  
 AMSL Height: 260.0 m  
 Elevation: 159.0 m  
 HAAT: 138.0 m  
 Horiz. Antenna Pattern: Omni

Type of contour: FCC  
 Location Variability: 50.0 %  
 Time Variability: 50.0 %  
 # of Radials Calculated: 360  
 Field Strength: 60.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	42.2	148.6
1.0	42.4	149.6
2.0	42.1	147.7
3.0	42.0	146.6
4.0	42.1	147.7
5.0	42.3	148.8
6.0	42.2	148.1
7.0	41.8	145.0
8.0	41.4	142.2
9.0	41.4	141.9
10.0	41.4	141.6
11.0	41.6	143.8
12.0	42.1	147.3
13.0	42.1	147.3
14.0	42.1	147.3
15.0	41.8	145.4
16.0	41.4	142.3
17.0	41.2	140.7
18.0	41.1	139.3
19.0	41.1	139.8
20.0	41.3	141.2
21.0	41.5	142.9
22.0	41.8	145.0
23.0	42.0	146.8
24.0	42.1	147.5
25.0	42.0	146.8
26.0	41.9	145.8
27.0	41.8	144.9
28.0	41.7	144.7
29.0	41.6	143.4
30.0	41.2	140.2
31.0	41.0	138.7
32.0	41.0	138.9
33.0	41.0	138.5
34.0	40.9	137.8

WPWB-FM F(50,50) 60 dBu 3 Second Terrain

35.0	40.8	137.6
36.0	40.6	135.6
37.0	40.4	133.9
38.0	40.2	132.4
39.0	40.1	131.9
40.0	40.3	133.7
41.0	40.5	134.6
42.0	40.5	134.6
43.0	40.2	132.4
44.0	39.9	129.9
45.0	39.6	128.0
46.0	39.3	125.1
47.0	39.2	124.2
48.0	39.3	125.3
49.0	39.6	127.5
50.0	39.9	130.2
51.0	40.0	130.9
52.0	40.3	133.1
53.0	40.6	135.7
54.0	41.1	139.3
55.0	41.4	141.8
56.0	41.3	141.4
57.0	41.2	140.2
58.0	40.9	138.0
59.0	40.9	137.7
60.0	40.8	137.5
61.0	40.7	136.4
62.0	40.6	135.7
63.0	40.7	136.8
64.0	40.9	138.1
65.0	40.8	137.4
66.0	40.5	134.8
67.0	40.3	133.5
68.0	40.4	133.7
69.0	40.1	132.1
70.0	40.0	130.5
71.0	39.6	127.9
72.0	39.1	123.5
73.0	38.7	120.4
74.0	38.9	121.8
75.0	39.1	123.2
76.0	39.0	122.7
77.0	38.9	122.0
78.0	38.9	121.8
79.0	38.5	119.1
80.0	38.1	115.5
81.0	37.9	113.8
82.0	37.9	113.9
83.0	38.0	114.9
84.0	38.3	117.1
85.0	38.4	118.2
86.0	38.4	118.1
87.0	38.5	118.7
88.0	38.5	119.0
89.0	38.6	119.2
90.0	38.6	119.7
91.0	38.7	120.2

# WPWB-FM F(50,50) 60 dBu 3 Second Terrain

92.0	38.6	119.9
93.0	38.5	118.8
94.0	38.5	118.8
95.0	38.6	119.4
96.0	38.8	121.4
97.0	38.8	121.1
98.0	38.6	119.7
99.0	38.6	119.7
100.0	38.6	119.8
101.0	38.6	119.8
102.0	38.8	120.7
103.0	38.9	122.1
104.0	38.9	121.6
105.0	38.8	121.2
106.0	38.8	121.0
107.0	38.7	120.6
108.0	38.7	120.3
109.0	38.8	120.8
110.0	38.9	122.0
111.0	39.3	125.1
112.0	39.4	126.4
113.0	39.3	125.5
114.0	39.5	126.5
115.0	39.6	127.9
116.0	39.8	129.2
117.0	39.8	129.5
118.0	39.9	130.5
119.0	40.1	131.6
120.0	40.2	132.8
121.0	40.3	133.0
122.0	40.3	133.3
123.0	40.5	134.8
124.0	40.7	136.5
125.0	40.4	134.4
126.0	40.1	132.0
127.0	40.0	130.9
128.0	39.9	130.0
129.0	39.9	129.9
130.0	39.8	129.5
131.0	39.7	128.6
132.0	39.7	128.2
133.0	39.6	127.6
134.0	39.6	127.6
135.0	39.6	127.7
136.0	39.6	127.4
137.0	39.6	127.3
138.0	39.5	127.1
139.0	39.5	126.6
140.0	39.4	126.2
141.0	39.4	126.3
142.0	39.5	126.9
143.0	39.7	128.2
144.0	39.9	130.4
145.0	40.0	131.0
146.0	39.9	130.4
147.0	39.9	130.0
148.0	39.8	129.5

# WPWB-FM F(50,50) 60 dBu 3 Second Terrain

149.0	39.7	128.4
150.0	39.6	127.4
151.0	39.5	127.2
152.0	39.6	127.4
153.0	39.6	128.0
154.0	39.7	128.5
155.0	39.7	128.7
156.0	39.7	128.8
157.0	39.7	128.6
158.0	39.9	129.9
159.0	39.8	129.6
160.0	39.7	128.4
161.0	39.7	128.1
162.0	39.6	128.0
163.0	39.6	127.7
164.0	39.6	127.5
165.0	39.6	127.6
166.0	39.6	127.5
167.0	39.5	126.9
168.0	39.4	126.1
169.0	39.3	124.9
170.0	39.3	124.9
171.0	39.3	125.4
172.0	39.4	126.4
173.0	39.5	127.1
174.0	39.7	128.2
175.0	39.8	129.6
176.0	40.0	131.1
177.0	40.3	133.2
178.0	40.5	134.9
179.0	40.6	136.0
180.0	40.7	136.8
181.0	40.7	136.8
182.0	40.7	136.7
183.0	40.8	137.5
184.0	41.1	139.2
185.0	41.3	141.3
186.0	41.4	141.8
187.0	41.5	142.6
188.0	41.4	141.9
189.0	41.3	140.8
190.0	41.1	139.8
191.0	41.2	140.0
192.0	41.3	141.4
193.0	41.5	143.0
194.0	41.6	143.4
195.0	41.3	141.0
196.0	41.2	140.3
197.0	41.1	139.5
198.0	41.1	139.6
199.0	41.1	139.6
200.0	41.1	139.8
201.0	41.1	140.0
202.0	41.3	141.0
203.0	41.4	141.8
204.0	41.5	142.9
205.0	41.6	143.5

# WPWB-FM F(50,50) 60 dBu 3 Second Terrain

206.0	41.7	143.9
207.0	41.9	145.8
208.0	42.0	147.0
209.0	42.0	146.9
210.0	41.5	142.5
211.0	41.0	138.9
212.0	40.8	137.6
213.0	40.9	137.9
214.0	41.1	139.4
215.0	41.4	142.0
216.0	41.7	144.3
217.0	42.0	146.3
218.0	42.2	147.9
219.0	42.2	148.2
220.0	42.3	148.9
221.0	42.6	151.0
222.0	43.0	154.9
223.0	43.3	156.9
224.0	43.5	158.8
225.0	43.6	159.8
226.0	43.7	160.6
227.0	43.9	161.9
228.0	44.0	162.8
229.0	44.0	162.6
230.0	43.9	161.8
231.0	43.7	160.7
232.0	43.6	160.0
233.0	43.5	158.9
234.0	43.5	159.0
235.0	43.5	158.8
236.0	43.4	158.1
237.0	43.4	157.5
238.0	43.3	157.3
239.0	43.3	157.1
240.0	43.3	156.8
241.0	43.2	156.7
242.0	43.2	156.0
243.0	43.1	155.4
244.0	43.1	155.1
245.0	43.1	155.6
246.0	43.0	154.9
247.0	42.9	153.7
248.0	42.7	152.4
249.0	42.6	151.6
250.0	42.6	151.2
251.0	42.5	150.4
252.0	42.3	149.3
253.0	42.1	147.8
254.0	42.0	146.7
255.0	41.8	145.4
256.0	41.7	144.4
257.0	41.6	143.8
258.0	41.6	143.5
259.0	41.5	143.1
260.0	41.6	143.3
261.0	41.6	143.5
262.0	41.6	143.5

WPWB-FM F(50,50) 60 dBu 3 Second Terrain

263.0	41.7	144.0
264.0	41.7	143.9
265.0	41.6	143.4
266.0	41.5	142.4
267.0	41.4	141.7
268.0	41.3	141.0
269.0	41.1	139.4
270.0	40.9	137.8
271.0	40.8	137.1
272.0	40.7	136.4
273.0	40.5	134.8
274.0	40.3	133.1
275.0	40.1	131.8
276.0	40.1	131.7
277.0	40.0	130.8
278.0	39.7	128.8
279.0	39.6	127.8
280.0	39.6	127.8
281.0	39.6	127.9
282.0	39.7	128.7
283.0	39.8	129.0
284.0	40.0	131.0
285.0	40.0	131.0
286.0	40.0	130.9
287.0	39.9	130.3
288.0	39.9	130.4
289.0	39.8	129.2
290.0	39.7	128.3
291.0	39.8	129.7
292.0	40.0	130.6
293.0	40.2	132.2
294.0	40.2	132.2
295.0	40.0	130.9
296.0	39.9	130.2
297.0	39.9	130.4
298.0	39.8	129.1
299.0	39.7	128.7
300.0	39.4	126.3
301.0	39.1	124.0
302.0	39.0	122.8
303.0	39.0	123.0
304.0	39.0	122.6
305.0	38.8	121.1
306.0	38.4	117.9
307.0	38.1	115.3
308.0	38.0	115.1
309.0	38.3	117.2
310.0	38.2	116.7
311.0	38.4	117.5
312.0	38.5	118.9
313.0	38.6	119.7
314.0	38.5	118.9
315.0	38.5	118.6
316.0	38.2	116.4
317.0	38.0	114.6
318.0	37.9	113.9
319.0	37.8	113.7

# WPWB-FM F(50,50) 60 dBu 3 Second Terrain

320.0	38.0	115.1
321.0	38.4	118.0
322.0	38.3	117.0
323.0	38.2	116.0
324.0	38.2	116.1
325.0	38.5	118.4
326.0	38.9	121.7
327.0	38.9	122.2
328.0	38.8	121.5
329.0	38.8	121.3
330.0	39.0	123.0
331.0	39.3	125.3
332.0	39.4	126.3
333.0	39.3	125.4
334.0	39.3	125.5
335.0	39.5	126.7
336.0	39.8	129.0
337.0	40.1	131.8
338.0	40.3	133.5
339.0	40.5	134.6
340.0	40.7	136.6
341.0	40.9	138.3
342.0	41.0	138.9
343.0	41.1	139.4
344.0	41.1	139.3
345.0	41.1	139.6
346.0	41.1	139.4
347.0	41.0	138.9
348.0	41.0	139.0
349.0	41.1	139.3
350.0	41.2	140.6
351.0	41.4	142.3
352.0	41.6	143.5
353.0	41.7	144.6
354.0	41.7	144.4
355.0	41.7	144.0
356.0	41.7	144.3
357.0	41.8	145.4
358.0	41.9	146.2
359.0	42.1	147.1

Average HAAT for radials shown: 134.5 m



# WPWB-FM F(50,10) 54 dBu 3 Second Terrain

Call Letters: WPWB-FM LIC  
 File Number: BLED19900319KA  
 Latitude: 32-40-55 N  
 Longitude: 083-22-10 W  
 ERP: 16.50 kW  
 Channel: 213  
 Frequency: 90.5 MHz  
 AMSL Height: 260.0 m  
 Elevation: 159.0 m  
 HAAT: 138.0 m  
 Horiz. Antenna Pattern: Omni

Type of contour: FCC  
 Location Variability: 50.0 %  
 Time Variability: 10.0 %  
 # of Radials Calculated: 360  
 Field Strength: 54.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	62.9	148.6
1.0	63.1	149.6
2.0	62.8	147.7
3.0	62.6	146.6
4.0	62.8	147.7
5.0	63.0	148.8
6.0	62.8	148.1
7.0	62.4	145.0
8.0	61.9	142.2
9.0	61.9	141.9
10.0	61.9	141.6
11.0	62.2	143.8
12.0	62.7	147.3
13.0	62.7	147.3
14.0	62.7	147.3
15.0	62.4	145.4
16.0	62.0	142.3
17.0	61.7	140.7
18.0	61.5	139.3
19.0	61.6	139.8
20.0	61.8	141.2
21.0	62.1	142.9
22.0	62.4	145.0
23.0	62.7	146.8
24.0	62.8	147.5
25.0	62.6	146.8
26.0	62.5	145.8
27.0	62.4	144.9
28.0	62.3	144.7
29.0	62.1	143.4
30.0	61.6	140.2
31.0	61.4	138.7
32.0	61.4	138.9
33.0	61.4	138.5
34.0	61.3	137.8

# WPWB-FM F(50,10) 54 dBu 3 Second Terrain

35.0	61.2	137.6
36.0	60.9	135.6
37.0	60.7	133.9
38.0	60.4	132.4
39.0	60.3	131.9
40.0	60.6	133.7
41.0	60.8	134.6
42.0	60.8	134.6
43.0	60.4	132.4
44.0	60.0	129.9
45.0	59.8	128.0
46.0	59.3	125.1
47.0	59.2	124.2
48.0	59.3	125.3
49.0	59.7	127.5
50.0	60.1	130.2
51.0	60.2	130.9
52.0	60.5	133.1
53.0	60.9	135.7
54.0	61.5	139.3
55.0	61.9	141.8
56.0	61.8	141.4
57.0	61.6	140.2
58.0	61.3	138.0
59.0	61.2	137.7
60.0	61.2	137.5
61.0	61.0	136.4
62.0	60.9	135.7
63.0	61.1	136.8
64.0	61.3	138.1
65.0	61.2	137.4
66.0	60.8	134.8
67.0	60.6	133.5
68.0	60.6	133.7
69.0	60.4	132.1
70.0	60.1	130.5
71.0	59.7	127.9
72.0	59.1	123.5
73.0	58.6	120.4
74.0	58.8	121.8
75.0	59.0	123.2
76.0	59.0	122.7
77.0	58.9	122.0
78.0	58.8	121.8
79.0	58.4	119.1
80.0	57.9	115.5
81.0	57.6	113.8
82.0	57.6	113.9
83.0	57.8	114.9
84.0	58.1	117.1
85.0	58.3	118.2
86.0	58.3	118.1
87.0	58.4	118.7
88.0	58.4	119.0
89.0	58.4	119.2
90.0	58.5	119.7
91.0	58.6	120.2

# WPWB-FM F(50,10) 54 dBu 3 Second Terrain

92.0	58.5	119.9
93.0	58.4	118.8
94.0	58.4	118.8
95.0	58.5	119.4
96.0	58.8	121.4
97.0	58.7	121.1
98.0	58.5	119.7
99.0	58.5	119.7
100.0	58.5	119.8
101.0	58.5	119.8
102.0	58.7	120.7
103.0	58.9	122.1
104.0	58.8	121.6
105.0	58.7	121.2
106.0	58.7	121.0
107.0	58.6	120.6
108.0	58.6	120.3
109.0	58.7	120.8
110.0	58.9	122.0
111.0	59.3	125.1
112.0	59.5	126.4
113.0	59.4	125.5
114.0	59.5	126.5
115.0	59.7	127.9
116.0	59.9	129.2
117.0	60.0	129.5
118.0	60.1	130.5
119.0	60.3	131.6
120.0	60.5	132.8
121.0	60.5	133.0
122.0	60.6	133.3
123.0	60.8	134.8
124.0	61.1	136.5
125.0	60.7	134.4
126.0	60.4	132.0
127.0	60.2	130.9
128.0	60.1	130.0
129.0	60.0	129.9
130.0	60.0	129.5
131.0	59.8	128.6
132.0	59.8	128.2
133.0	59.7	127.6
134.0	59.7	127.6
135.0	59.7	127.7
136.0	59.7	127.4
137.0	59.6	127.3
138.0	59.6	127.1
139.0	59.5	126.6
140.0	59.5	126.2
141.0	59.5	126.3
142.0	59.6	126.9
143.0	59.8	128.2
144.0	60.1	130.4
145.0	60.2	131.0
146.0	60.1	130.4
147.0	60.1	130.0
148.0	60.0	129.5

WPWB-FM F(50,10) 54 dBu 3 Second Terrain

149.0	59.8	128.4
150.0	59.7	127.4
151.0	59.6	127.2
152.0	59.7	127.4
153.0	59.7	128.0
154.0	59.8	128.5
155.0	59.9	128.7
156.0	59.9	128.8
157.0	59.8	128.6
158.0	60.0	129.9
159.0	60.0	129.6
160.0	59.8	128.4
161.0	59.8	128.1
162.0	59.8	128.0
163.0	59.7	127.7
164.0	59.7	127.5
165.0	59.7	127.6
166.0	59.7	127.5
167.0	59.6	126.9
168.0	59.5	126.1
169.0	59.3	124.9
170.0	59.3	124.9
171.0	59.4	125.4
172.0	59.5	126.4
173.0	59.6	127.1
174.0	59.8	128.2
175.0	60.0	129.6
176.0	60.2	131.1
177.0	60.5	133.2
178.0	60.8	134.9
179.0	61.0	136.0
180.0	61.1	136.8
181.0	61.1	136.8
182.0	61.1	136.7
183.0	61.2	137.5
184.0	61.5	139.2
185.0	61.8	141.3
186.0	61.9	141.8
187.0	62.0	142.6
188.0	61.9	141.9
189.0	61.7	140.8
190.0	61.6	139.8
191.0	61.6	140.0
192.0	61.8	141.4
193.0	62.1	143.0
194.0	62.1	143.4
195.0	61.8	141.0
196.0	61.6	140.3
197.0	61.5	139.5
198.0	61.5	139.6
199.0	61.5	139.6
200.0	61.6	139.8
201.0	61.6	140.0
202.0	61.8	141.0
203.0	61.9	141.8
204.0	62.0	142.9
205.0	62.1	143.5

# WPWB-FM F(50,10) 54 dBu 3 Second Terrain

206.0	62.2	143.9
207.0	62.5	145.8
208.0	62.7	147.0
209.0	62.7	146.9
210.0	62.0	142.5
211.0	61.4	138.9
212.0	61.2	137.6
213.0	61.3	137.9
214.0	61.5	139.4
215.0	61.9	142.0
216.0	62.3	144.3
217.0	62.6	146.3
218.0	62.8	147.9
219.0	62.9	148.2
220.0	63.0	148.9
221.0	63.3	151.0
222.0	63.9	154.9
223.0	64.2	156.9
224.0	64.5	158.8
225.0	64.7	159.8
226.0	64.8	160.6
227.0	65.0	161.9
228.0	65.1	162.8
229.0	65.1	162.6
230.0	64.9	161.8
231.0	64.8	160.7
232.0	64.7	160.0
233.0	64.5	158.9
234.0	64.5	159.0
235.0	64.5	158.8
236.0	64.4	158.1
237.0	64.3	157.5
238.0	64.3	157.3
239.0	64.2	157.1
240.0	64.2	156.8
241.0	64.2	156.7
242.0	64.1	156.0
243.0	64.0	155.4
244.0	63.9	155.1
245.0	64.0	155.6
246.0	63.9	154.9
247.0	63.7	153.7
248.0	63.5	152.4
249.0	63.4	151.6
250.0	63.3	151.2
251.0	63.2	150.4
252.0	63.0	149.3
253.0	62.8	147.8
254.0	62.6	146.7
255.0	62.4	145.4
256.0	62.3	144.4
257.0	62.2	143.8
258.0	62.1	143.5
259.0	62.1	143.1
260.0	62.1	143.3
261.0	62.1	143.5
262.0	62.1	143.5

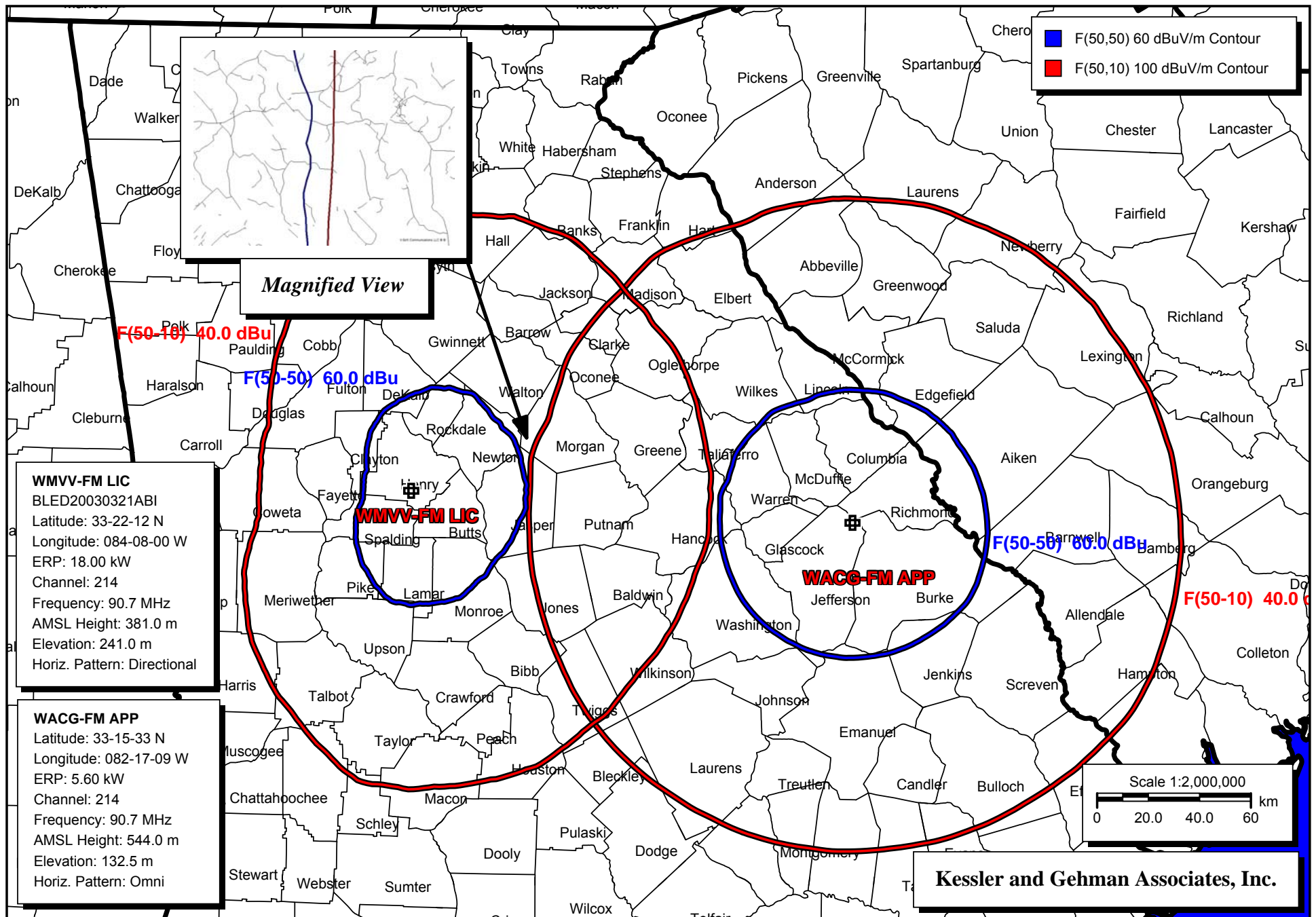
WPWB-FM F(50,10) 54 dBu 3 Second Terrain

263.0	62.2	144.0
264.0	62.2	143.9
265.0	62.1	143.4
266.0	62.0	142.4
267.0	61.9	141.7
268.0	61.7	141.0
269.0	61.5	139.4
270.0	61.3	137.8
271.0	61.1	137.1
272.0	61.0	136.4
273.0	60.8	134.8
274.0	60.5	133.1
275.0	60.3	131.8
276.0	60.3	131.7
277.0	60.2	130.8
278.0	59.9	128.8
279.0	59.7	127.8
280.0	59.7	127.8
281.0	59.7	127.9
282.0	59.9	128.7
283.0	59.9	129.0
284.0	60.2	131.0
285.0	60.2	131.0
286.0	60.2	130.9
287.0	60.1	130.3
288.0	60.1	130.4
289.0	59.9	129.2
290.0	59.8	128.3
291.0	60.0	129.7
292.0	60.2	130.6
293.0	60.4	132.2
294.0	60.4	132.2
295.0	60.2	130.9
296.0	60.1	130.2
297.0	60.1	130.4
298.0	59.9	129.1
299.0	59.9	128.7
300.0	59.5	126.3
301.0	59.1	124.0
302.0	59.0	122.8
303.0	59.0	123.0
304.0	58.9	122.6
305.0	58.7	121.1
306.0	58.2	117.9
307.0	57.8	115.3
308.0	57.8	115.1
309.0	58.1	117.2
310.0	58.1	116.7
311.0	58.2	117.5
312.0	58.4	118.9
313.0	58.5	119.7
314.0	58.4	118.9
315.0	58.4	118.6
316.0	58.0	116.4
317.0	57.7	114.6
318.0	57.6	113.9
319.0	57.6	113.7

WPWB-FM F(50,10) 54 dBu 3 Second Terrain

320.0	57.8	115.1
321.0	58.2	118.0
322.0	58.1	117.0
323.0	57.9	116.0
324.0	58.0	116.1
325.0	58.3	118.4
326.0	58.8	121.7
327.0	58.9	122.2
328.0	58.8	121.5
329.0	58.7	121.3
330.0	59.0	123.0
331.0	59.3	125.3
332.0	59.5	126.3
333.0	59.4	125.4
334.0	59.4	125.5
335.0	59.6	126.7
336.0	59.9	129.0
337.0	60.3	131.8
338.0	60.6	133.5
339.0	60.8	134.6
340.0	61.1	136.6
341.0	61.3	138.3
342.0	61.4	138.9
343.0	61.5	139.4
344.0	61.5	139.3
345.0	61.5	139.6
346.0	61.5	139.4
347.0	61.4	138.9
348.0	61.4	139.0
349.0	61.5	139.3
350.0	61.7	140.6
351.0	62.0	142.3
352.0	62.1	143.5
353.0	62.3	144.6
354.0	62.3	144.4
355.0	62.2	144.0
356.0	62.3	144.3
357.0	62.4	145.4
358.0	62.6	146.2
359.0	62.7	147.1

Average HAAT for radials shown: 134.5 m



WMVV-FM LIC vs. WACG-FM APP Single Allocation Study



## Proposed WACG-FM F(50,10) 40 dBu 3 Second Terrain

Call Letters: WACG-FM APP  
Latitude: 33-15-33 N  
Longitude: 082-17-09 W  
ERP: 5.60 kW  
Channel: 214  
Frequency: 90.7 MHz  
AMSL Height: 544.0 m  
Elevation: 132.5 m  
HAAT: 429.4 m  
Horiz. Antenna Pattern: Omni

Type of contour: FCC  
Location Variability: 50.0 %  
Time Variability: 10.0 %  
# of Radials Calculated: 360  
Field Strength: 40.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	126.4	419.5
1.0	126.3	418.5
2.0	126.2	418.1
3.0	126.2	417.8
4.0	126.1	417.3
5.0	126.1	417.1
6.0	126.2	417.9
7.0	126.3	419.1
8.0	126.4	419.6
9.0	126.5	420.1
10.0	126.6	421.7
11.0	126.8	423.0
12.0	126.8	423.4
13.0	127.0	425.2
14.0	127.1	425.5
15.0	127.0	425.3
16.0	126.9	424.4
17.0	126.9	423.6
18.0	126.7	422.7
19.0	126.5	420.4
20.0	126.2	418.2
21.0	126.1	416.8
22.0	126.1	416.6
23.0	126.0	416.4
24.0	126.1	417.0
25.0	126.3	418.5
26.0	126.2	418.1
27.0	126.3	418.5
28.0	126.4	419.2
29.0	126.5	420.7
30.0	126.6	421.6
31.0	126.7	422.3
32.0	126.8	423.1
33.0	126.9	424.4
34.0	127.1	425.5
35.0	127.0	425.1

# Proposed WACG-FM F(50,10) 40 dBu 3 Second Terrain

36.0	126.9	423.7
37.0	126.7	422.0
38.0	126.7	421.9
39.0	126.8	423.0
40.0	126.8	423.2
41.0	126.8	422.8
42.0	126.7	422.6
43.0	126.7	422.5
44.0	126.7	421.9
45.0	126.7	422.0
46.0	126.6	421.8
47.0	126.7	422.5
48.0	126.9	424.3
49.0	126.8	422.9
50.0	126.4	419.5
51.0	126.1	416.6
52.0	125.9	415.0
53.0	125.6	413.0
54.0	125.4	411.3
55.0	125.5	411.9
56.0	125.6	412.5
57.0	125.7	413.9
58.0	125.8	414.2
59.0	125.7	413.9
60.0	125.8	414.3
61.0	125.9	415.2
62.0	125.9	415.1
63.0	125.9	415.5
64.0	126.0	416.5
65.0	126.3	418.9
66.0	126.5	420.5
67.0	126.5	420.5
68.0	126.4	419.9
69.0	126.4	419.6
70.0	126.4	419.8
71.0	126.4	420.1
72.0	126.5	420.2
73.0	126.5	420.3
74.0	126.5	420.9
75.0	126.6	421.6
76.0	126.7	422.6
77.0	126.9	424.4
78.0	127.1	425.9
79.0	127.2	426.3
80.0	127.2	426.2
81.0	127.1	425.6
82.0	127.1	425.6
83.0	127.1	426.0
84.0	127.2	426.2
85.0	127.2	426.8
86.0	127.3	427.9
87.0	127.5	428.9
88.0	127.6	429.8
89.0	127.7	430.8
90.0	127.8	432.1
91.0	127.9	432.8
92.0	128.0	433.7

# Proposed WACG-FM F(50,10) 40 dBu 3 Second Terrain

93.0	128.2	435.3
94.0	128.4	437.6
95.0	128.6	438.7
96.0	128.6	438.9
97.0	128.6	438.9
98.0	128.6	439.2
99.0	128.7	439.7
100.0	128.8	440.4
101.0	128.8	440.9
102.0	128.9	441.8
103.0	129.0	442.8
104.0	129.1	443.7
105.0	129.2	444.4
106.0	129.3	444.9
107.0	129.3	445.4
108.0	129.4	446.2
109.0	129.5	447.3
110.0	129.6	448.2
111.0	129.7	449.1
112.0	129.9	450.3
113.0	130.0	451.6
114.0	130.2	453.3
115.0	130.5	455.6
116.0	130.7	457.8
117.0	130.9	459.1
118.0	130.9	459.5
119.0	130.9	459.8
120.0	131.0	460.5
121.0	131.1	461.6
122.0	131.2	462.6
123.0	131.3	463.3
124.0	131.4	463.9
125.0	131.4	463.7
126.0	131.2	462.7
127.0	131.1	461.5
128.0	130.9	459.4
129.0	130.7	457.6
130.0	130.5	456.0
131.0	130.3	453.9
132.0	130.1	452.0
133.0	130.0	451.3
134.0	129.9	450.5
135.0	129.7	449.1
136.0	129.7	448.5
137.0	129.7	448.3
138.0	129.6	448.2
139.0	129.5	446.8
140.0	129.3	444.8
141.0	129.1	443.4
142.0	129.0	442.2
143.0	128.9	441.6
144.0	128.8	440.6
145.0	128.7	439.7
146.0	128.6	438.8
147.0	128.5	437.9
148.0	128.4	437.3
149.0	128.4	436.9

# Proposed WACG-FM F(50,10) 40 dBu 3 Second Terrain

150.0	128.4	437.1
151.0	128.4	437.3
152.0	128.4	437.2
153.0	128.4	437.2
154.0	128.4	437.5
155.0	128.5	437.7
156.0	128.4	437.6
157.0	128.4	437.5
158.0	128.4	437.0
159.0	128.3	436.4
160.0	128.3	436.3
161.0	128.3	436.1
162.0	128.3	436.5
163.0	128.3	436.7
164.0	128.3	436.7
165.0	128.3	436.4
166.0	128.3	436.1
167.0	128.2	435.2
168.0	128.0	434.0
169.0	128.0	433.5
170.0	128.0	433.4
171.0	127.9	433.1
172.0	127.9	432.7
173.0	127.8	432.2
174.0	127.8	432.3
175.0	127.9	432.7
176.0	127.9	432.9
177.0	127.9	433.2
178.0	128.0	433.6
179.0	128.0	434.0
180.0	128.1	434.4
181.0	128.1	434.7
182.0	128.2	435.0
183.0	128.2	435.9
184.0	128.3	436.1
185.0	128.2	435.6
186.0	128.1	434.8
187.0	128.0	434.0
188.0	128.0	433.5
189.0	128.0	433.6
190.0	128.0	434.0
191.0	128.0	434.1
192.0	128.1	434.2
193.0	128.1	434.3
194.0	128.1	434.5
195.0	128.1	434.3
196.0	128.0	434.1
197.0	128.0	433.8
198.0	128.0	433.8
199.0	128.1	434.3
200.0	128.0	433.8
201.0	128.0	433.4
202.0	127.9	433.1
203.0	127.9	432.4
204.0	127.7	431.4
205.0	127.6	430.4
206.0	127.5	429.6

Proposed WACG-FM F(50,10) 40 dBu 3 Second Terrain

207.0	127.5	429.4
208.0	127.6	430.0
209.0	127.7	430.8
210.0	127.7	430.6
211.0	127.6	429.8
212.0	127.5	429.0
213.0	127.4	428.6
214.0	127.4	428.3
215.0	127.4	428.5
216.0	127.5	429.0
217.0	127.5	429.6
218.0	127.6	430.0
219.0	127.6	430.3
220.0	127.6	430.4
221.0	127.6	430.5
222.0	127.6	430.4
223.0	127.6	430.4
224.0	127.6	430.5
225.0	127.6	430.4
226.0	127.6	430.6
227.0	127.6	430.4
228.0	127.6	430.3
229.0	127.6	430.2
230.0	127.5	429.7
231.0	127.5	429.3
232.0	127.5	429.1
233.0	127.5	429.0
234.0	127.5	428.9
235.0	127.4	428.7
236.0	127.3	427.7
237.0	127.2	426.8
238.0	127.2	426.3
239.0	127.1	425.8
240.0	127.0	425.0
241.0	126.8	423.0
242.0	126.7	421.8
243.0	126.6	421.1
244.0	126.4	419.9
245.0	126.3	419.0
246.0	126.3	418.6
247.0	126.3	418.4
248.0	126.3	418.4
249.0	126.2	418.2
250.0	126.2	417.9
251.0	126.1	417.3
252.0	126.1	416.8
253.0	126.1	416.6
254.0	126.0	416.3
255.0	126.0	416.3
256.0	126.0	416.3
257.0	126.0	416.3
258.0	126.0	416.3
259.0	126.1	416.8
260.0	126.2	417.7
261.0	126.3	418.5
262.0	126.3	418.5
263.0	126.2	418.2

# Proposed WACG-FM F(50,10) 40 dBu 3 Second Terrain

264.0	126.2	417.9
265.0	126.2	417.7
266.0	126.1	417.2
267.0	126.1	416.7
268.0	126.0	416.1
269.0	126.0	416.1
270.0	126.1	416.6
271.0	126.1	417.3
272.0	126.2	417.9
273.0	126.2	417.8
274.0	126.2	418.3
275.0	126.2	418.1
276.0	126.3	418.6
277.0	126.5	420.1
278.0	126.7	422.2
279.0	127.0	424.6
280.0	127.3	427.1
281.0	127.6	430.4
282.0	127.8	432.0
283.0	127.6	430.5
284.0	127.5	428.9
285.0	127.1	426.1
286.0	126.7	422.2
287.0	126.2	417.8
288.0	125.7	413.2
289.0	125.3	409.7
290.0	125.3	409.7
291.0	125.6	412.4
292.0	125.8	414.3
293.0	125.9	415.5
294.0	126.1	416.8
295.0	126.3	418.6
296.0	126.5	420.4
297.0	126.9	424.0
298.0	127.4	428.4
299.0	127.8	431.6
300.0	128.1	434.8
301.0	128.3	436.6
302.0	128.4	437.2
303.0	128.4	437.0
304.0	128.3	436.5
305.0	128.3	436.0
306.0	128.2	435.3
307.0	128.2	435.3
308.0	128.1	434.9
309.0	128.1	434.4
310.0	128.1	434.4
311.0	128.1	434.2
312.0	128.0	433.5
313.0	127.8	431.9
314.0	127.7	430.9
315.0	127.6	429.9
316.0	127.6	430.1
317.0	127.8	431.7
318.0	128.0	433.9
319.0	128.3	436.4
320.0	128.5	438.5

Proposed WACG-FM F(50,10) 40 dBu 3 Second Terrain

321.0	128.7	440.2
322.0	129.0	442.9
323.0	129.3	445.2
324.0	129.4	445.8
325.0	129.3	444.8
326.0	129.0	442.7
327.0	128.6	439.2
328.0	128.3	435.9
329.0	127.9	432.7
330.0	127.5	429.2
331.0	127.1	425.9
332.0	126.7	422.4
333.0	126.3	418.7
334.0	126.1	416.6
335.0	125.9	415.1
336.0	125.5	412.2
337.0	125.2	409.0
338.0	124.8	406.0
339.0	124.6	404.0
340.0	124.4	402.4
341.0	124.5	402.8
342.0	124.7	404.5
343.0	125.1	407.8
344.0	125.5	411.8
345.0	125.7	413.7
346.0	125.9	414.8
347.0	125.9	415.1
348.0	125.8	414.4
349.0	125.9	415.0
350.0	125.9	415.5
351.0	125.9	415.5
352.0	125.8	414.5
353.0	126.1	417.3
354.0	126.1	417.1
355.0	126.2	417.8
356.0	126.4	419.4
357.0	126.5	420.7
358.0	126.4	419.4
359.0	126.5	420.2

Average HAAT for radials shown: 428.9 m

# WMVV-FM F(50,50) 60 dBu 3 Second Terrain

Call Letters: WMVV-FM LIC  
 File Number: BLED20030321ABI  
 Latitude: 33-22-12 N  
 Longitude: 084-08-00 W  
 ERP: 18.00 kW  
 Channel: 214  
 Frequency: 90.7 MHz  
 AMSL Height: 381.0 m  
 Elevation: 241.0 m  
 HAAT: 144.0 m  
 Horiz. Antenna Pattern: Directional

Type of contour: FCC  
 Location Variability: 50.0 %  
 Time Variability: 50.0 %  
 # of Radials Calculated: 360  
 Field Strength: 60.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	37.5	135.1
1.0	37.8	136.0
2.0	38.1	137.2
3.0	38.3	136.8
4.0	38.5	136.8
5.0	38.7	137.6
6.0	39.1	139.0
7.0	39.5	140.7
8.0	40.0	143.1
9.0	40.4	144.9
10.0	40.9	147.6
11.0	41.2	148.0
12.0	41.3	147.2
13.0	41.4	146.5
14.0	41.6	146.5
15.0	41.7	146.0
16.0	41.8	145.3
17.0	41.8	144.0
18.0	42.1	144.6
19.0	42.6	147.3
20.0	43.0	148.4
21.0	42.9	148.2
22.0	43.0	148.8
23.0	43.0	149.1
24.0	43.1	149.3
25.0	43.2	150.3
26.0	43.3	151.0
27.0	43.4	152.2
28.0	43.7	154.6
29.0	44.1	157.8
30.0	44.4	160.1
31.0	44.6	162.0
32.0	44.8	163.6
33.0	44.8	163.1
34.0	44.7	162.2



# WMVV-FM F(50,50) 60 dBu 3 Second Terrain

35.0	44.4	159.9
36.0	44.1	157.7
37.0	43.9	156.0
38.0	43.8	155.2
39.0	43.8	154.9
40.0	43.6	153.6
41.0	43.6	153.1
42.0	43.5	152.8
43.0	43.5	152.4
44.0	43.3	151.1
45.0	43.1	149.7
46.0	43.0	148.4
47.0	42.8	147.5
48.0	42.8	147.4
49.0	42.9	148.2
50.0	43.1	149.9
51.0	43.4	151.9
52.0	43.5	153.0
53.0	43.4	152.1
54.0	43.2	150.0
55.0	43.1	149.8
56.0	43.4	151.9
57.0	43.7	154.1
58.0	43.9	156.2
59.0	44.2	158.5
60.0	44.5	160.6
61.0	44.6	161.9
62.0	44.7	162.7
63.0	44.8	163.2
64.0	44.7	162.9
65.0	44.6	162.1
66.0	44.6	161.9
67.0	44.7	162.2
68.0	44.6	161.8
69.0	44.5	161.3
70.0	44.6	161.7
71.0	44.6	162.0
72.0	44.6	162.1
73.0	44.6	161.6
74.0	44.4	159.9
75.0	44.3	158.8
76.0	44.3	159.1
77.0	44.3	159.0
78.0	44.3	159.0
79.0	44.3	159.2
80.0	44.3	159.5
81.0	44.4	159.8
82.0	44.4	159.9
83.0	44.5	160.7
84.0	44.6	162.0
85.0	44.9	164.4
86.0	45.1	166.0
87.0	45.1	165.8
88.0	44.9	164.4
89.0	44.7	162.3
90.0	44.9	164.6
91.0	44.9	164.7

# WMVV-FM F(50,50) 60 dBu 3 Second Terrain

92.0	44.7	162.8
93.0	44.6	161.5
94.0	44.6	162.1
95.0	44.8	163.7
96.0	44.9	164.6
97.0	45.1	166.0
98.0	45.2	167.1
99.0	45.1	166.0
100.0	44.9	164.3
101.0	44.8	163.1
102.0	44.5	161.1
103.0	44.3	159.2
104.0	44.0	156.9
105.0	43.8	155.3
106.0	43.7	154.3
107.0	43.7	154.7
108.0	43.7	154.4
109.0	43.7	154.1
110.0	43.7	154.3
111.0	43.7	154.1
112.0	43.5	152.9
113.0	43.5	152.6
114.0	43.5	153.0
115.0	43.6	153.2
116.0	43.5	153.0
117.0	43.5	152.5
118.0	43.4	151.6
119.0	43.2	150.3
120.0	43.2	150.5
121.0	43.3	150.7
122.0	43.2	150.4
123.0	43.2	150.2
124.0	43.0	148.8
125.0	42.8	147.2
126.0	42.7	146.2
127.0	42.6	145.3
128.0	42.4	144.3
129.0	42.5	144.8
130.0	42.6	145.8
131.0	42.6	145.8
132.0	42.7	146.2
133.0	42.9	147.9
134.0	43.0	149.1
135.0	43.2	150.3
136.0	43.5	152.3
137.0	43.7	154.7
138.0	43.9	156.3
139.0	44.0	156.6
140.0	43.8	155.4
141.0	43.6	153.8
142.0	43.6	153.7
143.0	43.7	154.3
144.0	43.7	154.6
145.0	44.0	156.8
146.0	44.1	158.0
147.0	44.3	159.5
148.0	44.6	161.3

# WMVV-FM F(50,50) 60 dBu 3 Second Terrain

149.0	44.6	161.8
150.0	44.8	163.2
151.0	45.0	165.4
152.0	45.3	167.5
153.0	45.5	169.5
154.0	45.7	171.5
155.0	45.8	172.7
156.0	45.6	171.0
157.0	45.4	168.9
158.0	45.4	169.0
159.0	45.4	168.6
160.0	45.3	168.0
161.0	45.3	167.5
162.0	45.2	167.3
163.0	45.2	166.7
164.0	44.8	163.8
165.0	44.8	163.4
166.0	44.7	162.6
167.0	44.7	162.3
168.0	44.6	161.9
169.0	44.6	161.6
170.0	44.6	161.6
171.0	44.5	161.2
172.0	44.4	159.7
173.0	44.3	159.3
174.0	44.2	158.7
175.0	44.0	157.1
176.0	44.2	158.2
177.0	44.3	158.9
178.0	44.4	160.3
179.0	44.5	161.2
180.0	44.6	161.5
181.0	44.4	160.0
182.0	44.0	157.3
183.0	43.9	156.6
184.0	43.8	155.6
185.0	43.7	154.9
186.0	43.7	155.6
187.0	43.9	157.1
188.0	43.9	156.9
189.0	43.7	155.9
190.0	43.5	154.2
191.0	43.0	153.2
192.0	42.8	154.2
193.0	42.5	155.2
194.0	42.1	154.8
195.0	41.6	153.4
196.0	41.1	152.6
197.0	40.5	151.4
198.0	40.1	151.6
199.0	39.9	152.9
200.0	39.6	154.4
201.0	39.1	153.1
202.0	38.6	151.7
203.0	38.1	150.4
204.0	37.6	149.0
205.0	37.1	148.1

# WMVV-FM F(50,50) 60 dBu 3 Second Terrain

206.0	36.7	147.7
207.0	36.2	146.9
208.0	35.7	146.4
209.0	35.4	147.3
210.0	35.2	149.1
211.0	35.0	149.6
212.0	34.8	151.1
213.0	34.4	151.1
214.0	34.0	150.1
215.0	33.6	149.9
216.0	33.1	149.0
217.0	32.6	148.3
218.0	32.2	147.7
219.0	31.8	148.2
220.0	31.4	148.1
221.0	31.0	147.4
222.0	30.7	146.8
223.0	30.4	147.1
224.0	30.1	147.5
225.0	29.8	148.0
226.0	29.6	148.3
227.0	29.1	146.7
228.0	28.7	145.8
229.0	28.5	146.6
230.0	28.0	145.3
231.0	27.5	142.8
232.0	27.1	141.1
233.0	26.8	139.5
234.0	26.4	138.9
235.0	26.2	139.0
236.0	25.9	138.5
237.0	25.5	137.3
238.0	25.3	137.4
239.0	25.0	138.2
240.0	24.7	138.1
241.0	24.4	136.9
242.0	24.2	137.4
243.0	24.1	138.2
244.0	23.8	137.9
245.0	23.4	135.6
246.0	23.1	134.8
247.0	22.8	134.3
248.0	22.4	133.3
249.0	22.1	131.7
250.0	21.7	130.7
251.0	21.5	130.5
252.0	21.2	129.6
253.0	20.9	127.8
254.0	20.5	126.3
255.0	20.2	124.9
256.0	19.9	124.0
257.0	19.7	124.6
258.0	19.6	126.7
259.0	19.4	126.4
260.0	19.1	125.8
261.0	19.1	126.0
262.0	19.0	125.0

# WMVV-FM F(50,50) 60 dBu 3 Second Terrain

263.0	18.9	124.1
264.0	18.8	124.3
265.0	18.8	124.6
266.0	18.8	124.7
267.0	18.8	124.9
268.0	18.8	125.0
269.0	18.7	124.3
270.0	18.6	123.6
271.0	18.6	123.5
272.0	18.6	123.3
273.0	18.6	122.3
274.0	18.6	121.8
275.0	18.6	121.5
276.0	18.7	122.2
277.0	18.7	122.6
278.0	18.7	122.2
279.0	18.7	121.2
280.0	18.7	120.8
281.0	18.8	120.9
282.0	19.0	121.3
283.0	19.0	120.3
284.0	19.0	118.5
285.0	19.0	117.5
286.0	19.1	116.4
287.0	19.2	116.7
288.0	19.2	116.0
289.0	19.2	114.7
290.0	19.2	113.3
291.0	19.3	111.6
292.0	19.2	108.5
293.0	19.0	105.4
294.0	19.0	103.4
295.0	19.1	102.9
296.0	19.4	103.8
297.0	19.7	105.0
298.0	19.8	104.8
299.0	20.0	104.8
300.0	20.2	105.6
301.0	20.5	106.8
302.0	20.8	107.5
303.0	21.0	107.7
304.0	21.3	108.6
305.0	21.5	109.1
306.0	21.7	109.9
307.0	22.0	111.2
308.0	22.4	113.1
309.0	22.6	114.1
310.0	22.9	114.6
311.0	23.2	115.4
312.0	23.5	116.2
313.0	23.9	117.0
314.0	24.2	117.5
315.0	24.4	117.6
316.0	24.7	118.2
317.0	25.1	119.2
318.0	25.4	120.1
319.0	25.7	120.7

# WMVV-FM F(50,50) 60 dBu 3 Second Terrain

320.0	25.9	120.9
321.0	26.3	121.7
322.0	26.7	122.7
323.0	27.2	125.2
324.0	27.6	126.5
325.0	28.0	127.4
326.0	28.3	127.7
327.0	28.5	127.3
328.0	28.8	127.0
329.0	29.0	126.5
330.0	29.3	126.6
331.0	29.7	127.6
332.0	29.9	126.1
333.0	30.2	125.5
334.0	30.4	124.8
335.0	30.9	125.7
336.0	31.3	126.4
337.0	31.6	126.7
338.0	32.0	127.1
339.0	32.3	126.7
340.0	32.7	127.1
341.0	33.0	128.2
342.0	33.3	128.3
343.0	33.4	127.9
344.0	33.7	128.4
345.0	33.9	128.2
346.0	34.1	128.3
347.0	34.3	128.3
348.0	34.4	128.1
349.0	34.6	127.9
350.0	34.9	128.4
351.0	35.3	130.7
352.0	35.7	132.0
353.0	35.7	131.1
354.0	35.9	130.8
355.0	36.0	130.2
356.0	36.3	131.1
357.0	36.7	132.6
358.0	37.0	134.4
359.0	37.3	134.8

Average HAAT for radials shown: 143.8 m

# WMVV-FM F(50,10) 40 dBu 3 Second Terrain

Call Letters: WMVV-FM LIC  
 File Number: BLED20030321ABI  
 Latitude: 33-22-12 N  
 Longitude: 084-08-00 W  
 ERP: 18.00 kW  
 Channel: 214  
 Frequency: 90.7 MHz  
 AMSL Height: 381.0 m  
 Elevation: 241.0 m  
 HAAT: 144.0 m  
 Horiz. Antenna Pattern: Directional

Type of contour: FCC  
 Location Variability: 50.0 %  
 Time Variability: 10.0 %  
 # of Radials Calculated: 360  
 Field Strength: 40.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	102.8	135.1
1.0	103.4	136.0
2.0	104.0	137.2
3.0	104.4	136.8
4.0	104.8	136.8
5.0	105.4	137.6
6.0	106.0	139.0
7.0	106.7	140.7
8.0	107.5	143.1
9.0	108.3	144.9
10.0	109.1	147.6
11.0	109.7	148.0
12.0	110.1	147.2
13.0	110.5	146.5
14.0	111.0	146.5
15.0	111.4	146.0
16.0	111.8	145.3
17.0	112.0	144.0
18.0	112.6	144.6
19.0	113.6	147.3
20.0	114.3	148.4
21.0	114.2	148.2
22.0	114.3	148.8
23.0	114.4	149.1
24.0	114.4	149.3
25.0	114.6	150.3
26.0	114.7	151.0
27.0	114.9	152.2
28.0	115.3	154.6
29.0	115.8	157.8
30.0	116.2	160.1
31.0	116.5	162.0
32.0	116.7	163.6
33.0	116.6	163.1
34.0	116.5	162.2

# WMVV-FM F(50,10) 40 dBu 3 Second Terrain

35.0	116.1	159.9
36.0	115.8	157.7
37.0	115.5	156.0
38.0	115.4	155.2
39.0	115.3	154.9
40.0	115.1	153.6
41.0	115.1	153.1
42.0	115.0	152.8
43.0	114.9	152.4
44.0	114.7	151.1
45.0	114.5	149.7
46.0	114.3	148.4
47.0	114.1	147.5
48.0	114.1	147.4
49.0	114.2	148.2
50.0	114.5	149.9
51.0	114.8	151.9
52.0	115.0	153.0
53.0	114.9	152.1
54.0	114.5	150.0
55.0	114.5	149.8
56.0	114.9	151.9
57.0	115.2	154.1
58.0	115.5	156.2
59.0	115.9	158.5
60.0	116.2	160.6
61.0	116.4	161.9
62.0	116.6	162.7
63.0	116.6	163.2
64.0	116.6	162.9
65.0	116.5	162.1
66.0	116.4	161.9
67.0	116.5	162.2
68.0	116.4	161.8
69.0	116.3	161.3
70.0	116.4	161.7
71.0	116.5	162.0
72.0	116.5	162.1
73.0	116.4	161.6
74.0	116.1	159.9
75.0	116.0	158.8
76.0	116.0	159.1
77.0	116.0	159.0
78.0	116.0	159.0
79.0	116.0	159.2
80.0	116.1	159.5
81.0	116.1	159.8
82.0	116.1	159.9
83.0	116.3	160.7
84.0	116.5	162.0
85.0	116.8	164.4
86.0	117.1	166.0
87.0	117.0	165.8
88.0	116.8	164.4
89.0	116.5	162.3
90.0	116.9	164.6
91.0	116.9	164.7



# WMVV-FM F(50,10) 40 dBu 3 Second Terrain

92.0	116.6	162.8
93.0	116.4	161.5
94.0	116.5	162.1
95.0	116.7	163.7
96.0	116.9	164.6
97.0	117.1	166.0
98.0	117.2	167.1
99.0	117.1	166.0
100.0	116.8	164.3
101.0	116.6	163.1
102.0	116.3	161.1
103.0	116.0	159.2
104.0	115.7	156.9
105.0	115.4	155.3
106.0	115.3	154.3
107.0	115.3	154.7
108.0	115.3	154.4
109.0	115.2	154.1
110.0	115.2	154.3
111.0	115.2	154.1
112.0	115.0	152.9
113.0	115.0	152.6
114.0	115.0	153.0
115.0	115.1	153.2
116.0	115.0	153.0
117.0	115.0	152.5
118.0	114.8	151.6
119.0	114.6	150.3
120.0	114.6	150.5
121.0	114.7	150.7
122.0	114.6	150.4
123.0	114.6	150.2
124.0	114.3	148.8
125.0	114.1	147.2
126.0	113.9	146.2
127.0	113.7	145.3
128.0	113.6	144.3
129.0	113.7	144.8
130.0	113.8	145.8
131.0	113.8	145.8
132.0	113.9	146.2
133.0	114.2	147.9
134.0	114.4	149.1
135.0	114.6	150.3
136.0	114.9	152.3
137.0	115.3	154.7
138.0	115.6	156.3
139.0	115.6	156.6
140.0	115.4	155.4
141.0	115.2	153.8
142.0	115.1	153.7
143.0	115.3	154.3
144.0	115.3	154.6
145.0	115.6	156.8
146.0	115.8	158.0
147.0	116.1	159.5
148.0	116.4	161.3

# WMVV-FM F(50,10) 40 dBu 3 Second Terrain

149.0	116.4	161.8
150.0	116.7	163.2
151.0	117.0	165.4
152.0	117.3	167.5
153.0	117.6	169.5
154.0	117.9	171.5
155.0	118.0	172.7
156.0	117.8	171.0
157.0	117.5	168.9
158.0	117.5	169.0
159.0	117.4	168.6
160.0	117.4	168.0
161.0	117.3	167.5
162.0	117.3	167.3
163.0	117.2	166.7
164.0	116.7	163.8
165.0	116.7	163.4
166.0	116.6	162.6
167.0	116.5	162.3
168.0	116.5	161.9
169.0	116.4	161.6
170.0	116.4	161.6
171.0	116.3	161.2
172.0	116.1	159.7
173.0	116.0	159.3
174.0	115.9	158.7
175.0	115.7	157.1
176.0	115.9	158.2
177.0	116.0	158.9
178.0	116.2	160.3
179.0	116.3	161.2
180.0	116.4	161.5
181.0	116.1	160.0
182.0	115.6	157.3
183.0	115.5	156.6
184.0	115.3	155.6
185.0	115.1	154.9
186.0	115.2	155.6
187.0	115.3	157.1
188.0	115.3	156.9
189.0	115.1	155.9
190.0	114.7	154.2
191.0	113.6	153.2
192.0	112.9	154.2
193.0	112.1	155.2
194.0	111.0	154.8
195.0	109.9	153.4
196.0	108.8	152.6
197.0	107.7	151.4
198.0	106.7	151.6
199.0	106.0	152.9
200.0	105.2	154.4
201.0	104.3	153.1
202.0	103.3	151.7
203.0	102.4	150.4
204.0	101.4	149.0
205.0	100.5	148.1

# WMVV-FM F(50,10) 40 dBu 3 Second Terrain

206.0	99.6	147.7
207.0	98.7	146.9
208.0	97.8	146.4
209.0	97.2	147.3
210.0	96.6	149.1
211.0	96.0	149.6
212.0	95.5	151.1
213.0	94.9	151.1
214.0	94.0	150.1
215.0	93.3	149.9
216.0	92.5	149.0
217.0	91.6	148.3
218.0	90.8	147.7
219.0	90.1	148.2
220.0	89.3	148.1
221.0	88.6	147.4
222.0	87.9	146.8
223.0	87.3	147.1
224.0	86.7	147.5
225.0	86.1	148.0
226.0	85.5	148.3
227.0	84.6	146.7
228.0	83.8	145.8
229.0	83.2	146.6
230.0	82.2	145.3
231.0	81.3	142.8
232.0	80.4	141.1
233.0	79.5	139.5
234.0	78.8	138.9
235.0	78.2	139.0
236.0	77.4	138.5
237.0	76.6	137.3
238.0	75.9	137.4
239.0	75.3	138.2
240.0	74.6	138.1
241.0	73.8	136.9
242.0	73.3	137.4
243.0	72.8	138.2
244.0	72.1	137.9
245.0	71.1	135.6
246.0	70.3	134.8
247.0	69.6	134.3
248.0	68.7	133.3
249.0	67.8	131.7
250.0	66.9	130.7
251.0	66.3	130.5
252.0	65.6	129.6
253.0	64.7	127.8
254.0	63.9	126.3
255.0	63.0	124.9
256.0	62.3	124.0
257.0	61.8	124.6
258.0	61.5	126.7
259.0	60.9	126.4
260.0	60.2	125.8
261.0	60.1	126.0
262.0	59.9	125.0

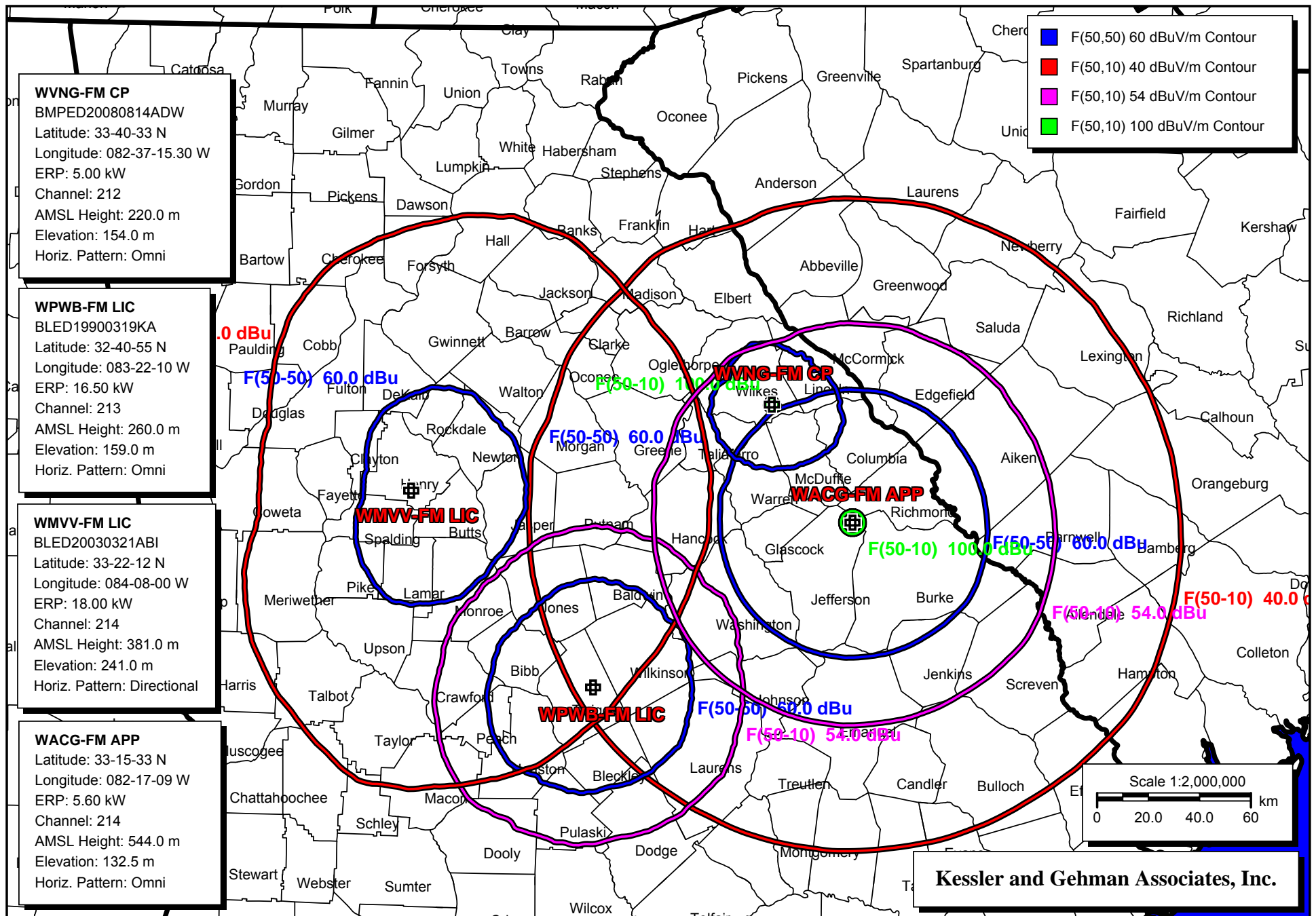
# WMVV-FM F(50,10) 40 dBu 3 Second Terrain

263.0	59.7	124.1
264.0	59.6	124.3
265.0	59.6	124.6
266.0	59.6	124.7
267.0	59.5	124.9
268.0	59.4	125.0
269.0	59.3	124.3
270.0	59.1	123.6
271.0	59.2	123.5
272.0	59.2	123.3
273.0	59.1	122.3
274.0	59.1	121.8
275.0	59.1	121.5
276.0	59.3	122.2
277.0	59.5	122.6
278.0	59.5	122.2
279.0	59.4	121.2
280.0	59.4	120.8
281.0	59.7	120.9
282.0	60.1	121.3
283.0	60.2	120.3
284.0	60.2	118.5
285.0	60.3	117.5
286.0	60.4	116.4
287.0	60.7	116.7
288.0	60.9	116.0
289.0	61.0	114.7
290.0	61.0	113.3
291.0	61.2	111.6
292.0	61.1	108.5
293.0	61.0	105.4
294.0	61.1	103.4
295.0	61.4	102.9
296.0	62.0	103.8
297.0	62.7	105.0
298.0	63.1	104.8
299.0	63.5	104.8
300.0	64.1	105.6
301.0	64.9	106.8
302.0	65.5	107.5
303.0	66.1	107.7
304.0	66.7	108.6
305.0	67.3	109.1
306.0	68.0	109.9
307.0	68.7	111.2
308.0	69.5	113.1
309.0	70.1	114.1
310.0	70.7	114.6
311.0	71.5	115.4
312.0	72.4	116.2
313.0	73.2	117.0
314.0	74.0	117.5
315.0	74.7	117.6
316.0	75.5	118.2
317.0	76.3	119.2
318.0	77.1	120.1
319.0	77.8	120.7

# WMVV-FM F(50,10) 40 dBu 3 Second Terrain

320.0	78.5	120.9
321.0	79.3	121.7
322.0	80.2	122.7
323.0	81.4	125.2
324.0	82.3	126.5
325.0	83.1	127.4
326.0	83.8	127.7
327.0	84.4	127.3
328.0	85.0	127.0
329.0	85.5	126.5
330.0	86.2	126.6
331.0	87.1	127.6
332.0	87.6	126.1
333.0	88.3	125.5
334.0	88.9	124.8
335.0	89.8	125.7
336.0	90.6	126.4
337.0	91.3	126.7
338.0	92.1	127.1
339.0	92.7	126.7
340.0	93.4	127.1
341.0	94.0	128.2
342.0	94.4	128.3
343.0	94.8	127.9
344.0	95.3	128.4
345.0	95.7	128.2
346.0	96.1	128.3
347.0	96.5	128.3
348.0	96.9	128.1
349.0	97.3	127.9
350.0	97.8	128.4
351.0	98.5	130.7
352.0	99.1	132.0
353.0	99.4	131.1
354.0	99.7	130.8
355.0	100.0	130.2
356.0	100.6	131.1
357.0	101.2	132.6
358.0	101.9	134.4
359.0	102.3	134.8

Average HAAT for radials shown: 143.8 m



Allocation Study (ALL)

EXHIBIT 24

Media General, Inc., P.O. Box 85333 Richmond, Virginia 23293-0001 (804) 649-6000 [www.mediageneral.com](http://www.mediageneral.com)  
Phone (804) 649-6029  
Fax (804) 649-6989  
[gmahoney@mediageneral.com](mailto:gmahoney@mediageneral.com)



**George L. Mahoney**  
Vice President,  
General Counsel and Secretary

April 10, 2009

**VIA FACSIMILE (202) 942-5999**  
**AND REGULAR MAIL**

Theodore D. Frank, Esq.  
Special Assistant Attorney General  
State of Georgia  
Arnold & Porter LLP  
555 12<sup>th</sup> Street, N.W.  
Washington, D.C. 20004

Re: Application of Station WACG-FM to Modify its Facilities  
FCC File No. BPED-20090218ABZ

Dear Mr. Frank:

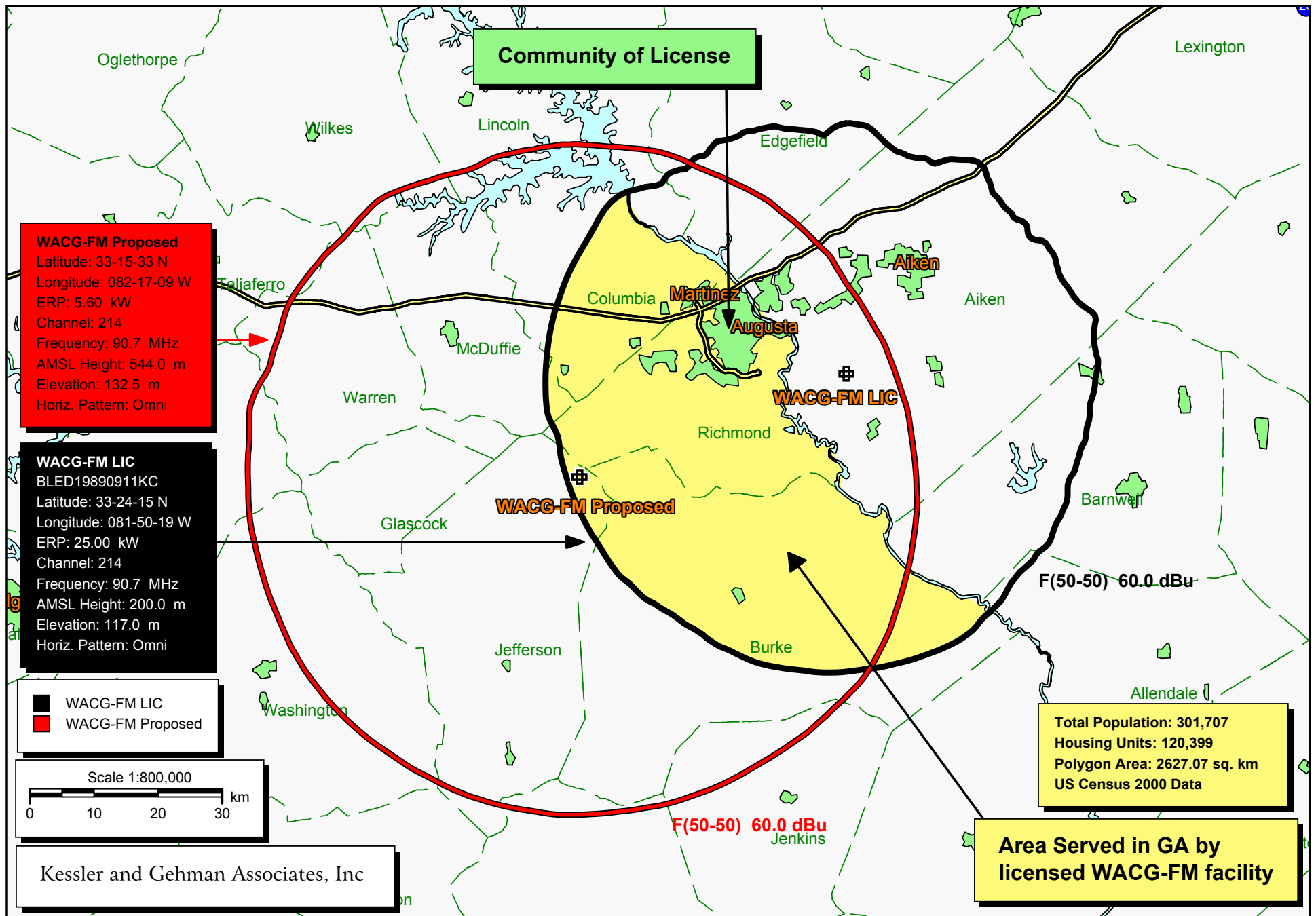
By this letter, Media General Communications, Holdings, LLC, licensee of Station WJBF, Augusta, GA, hereby consents to the FCC's grant of the above-referenced application of the Georgia Public Telecommunications Commission to modify the facilities of Station WACG. Station WJBF is no longer operating on Channel 6 and has no objection to the grant of GPTC's application.

Very truly yours,

George L. Mahoney







Area in GA served by licensed WACG-FM facility