

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

KESSLER & GEHMAN ASSOCIATES, INC.
TELECOMMUNICATIONS CONSULTING ENGINEERS

20050930

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KG&A

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ENGINEERING TECHNICAL STATEMENT PREPARED BY WILLIAM T. GODFREY, JR. OF THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC., TELECOMMUNICATIONS CONSULTING ENGINEERS IN CONNECTION WITH A MINOR CHANGE IN LICENSED FACILITY APPLICATION TO MAKE CHANGES TO THE GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION (“GPTC”) FM BROADCAST FACILITY, WACG-FM CHANNEL 214 C2, AUGUSTA, GEORGIA.

The firm Kessler and Gehman Associates, Inc., has been retained by the Georgia Public Telecommunications Commission (“GPTC”), Atlanta, Georgia, in order to prepare engineering studies and the engineering portion of a minor change in licensed facility application for the licensed WACG-FM Channel 214 C2 FM broadcast facility (BLED19890911KC) requesting authorization to correct coordinates and make changes to the following: 1) antenna system; 2) effective radiated power; 3) antenna height radiation center; and 4) polarization.

Discussion

The GPTC is licensed to operate WACG-FM Channel 214 C2 (BLED19890911KC) with an Effective Radiated Power (“ERP”) of 25 kW (horizontal and vertical polarization) at an antenna height radiation center of 83 meters Above Ground Level (“AGL”) using a nondirectional, side-mounted Jampro antenna. The proposed antenna is the former WJBF-TV Channel 6 General Electric model TY-60-F batwing antenna which is top-mounted on the same tower as the licensed WACG-FM Jampro antenna. The licensee of the WJBF-TV Channel 6 facility is Media General Broadcasting of South Carolina Holdings, Inc. (“Media General”). In order to support the new WJBF-DT Channel 42 antenna, Media General had to build a new 1,500-foot tower located approximately 0.36 km from its previous tower. Accordingly, WJBF abandoned its Channel 6 GE TY-60-F batwing antenna and began operating on a new Dielectric model TF-6BM Channel 6 antenna on the new tower.

Prior to abandoning the old site, the WLJK-FM Channel 206 C1 facility diplexed with the WJBF-TV Channel 6 facility using the same GE TY-60-F batwing antenna. Now that WJBF is

no longer using the old batwing antenna, the GPTC would like to take advantage of the vacancy by diplexing with the WLJK-FM Channel 206 facility using the same GE TY-60-F batwing antenna. This would serve the public well since the 975-foot antenna height increase would result in an increased coverage area with a 21.3 kW decrease in ERP (from 25 kW to only 3.7 kW). The power savings would be significant because the entire vertical component (ERP) would be eliminated since a batwing is a “horizontal only” type antenna. Another positive repercussion with respect to public interest is that the existing side-mount Jampro antenna would be used as an auxiliary antenna which is not currently in place for the WACG-FM facility. An FM auxiliary application was filed simultaneously with this application in order to expedite the proposed changes.

According to the Power and Antenna Height Requirements depicted in §73.211 of the FCC rules, the proposed 3.7 kW ERP (alone) would classify the proposed WACG-FM facility as a Class A station; however, the proposed antenna height radiation center above average terrain is 420.8 meters. Therefore, in accordance with §73.210 of the FCC rules, the proposed WACG-FM station would be a Class C2 facility based on the fact that the distance to the reference contour in all azimuthal directions would be greater than 39 km and less than or equal to 52 km (Exhibit 19). Based on the proposed WACG-FM facility’s ERP and antenna height above average terrain, the facility could not be classified using the maximum limits and minimum requirements in §73.211; therefore, the classification was determined using the procedures depicted in §73.210(b)(3).

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) 1mV/m (60 dBuV/m) Predicted Contour and Radials, Proposed Transmitter Location, & Principal Community Boundary Depiction (Exhibit 8).
- 9) FM-to-FM Interference Studies (Exhibit 9).
- 10) FM Allocation Study - WYFH-FM (Exhibit 10)
- 11) FM Allocation Study - WUSC-FM (Exhibit 11)
- 12) FM Allocation Study - WFAE-FM (Exhibit 12)
- 13) FM Allocation Study – Composite (Exhibit 13)
- 14) TV Channel 6 Allocation Study (Exhibit 14).
- 15) Area Gained Contour Map (Exhibit 15).
- 16) Collocated ERP Table (Exhibit 16).
- 17) Distance between Sites Map (Exhibit 17).
- 18) Path Profile Map (Exhibit 18).
- 19) Distance to Contour Tabulation (Exhibit 19).
- 20) Vertical Pattern Comparison - Relative Field (Exhibit 20)
- 21) Vertical Pattern Comparison - dB (Exhibit 21)
- 22) TV Channel 6 Studies – 47 dBu to 68 dBu (Exhibit 22)
- 23) TV Channel 6 Studies – 69 dBu to 90 dBu (Exhibit 23)
- 24) Interference Area Map (Exhibit 24)
- 25) Longley-Rice interference Study (Exhibit 25)
- 26) Longley-Rice interference Population Report (Exhibit 26)

Transmitter Location

The licensed WACG-FM facility is currently operating on a 1,292-foot, Media General support structure with its antenna side-mounted at a 272-foot AGL radiation center height. The proposed batwing antenna is top-mounted on the same Media General support structure and has a 1,245.8-foot AGL radiation center height (Exhibit 3). The tower is registered with the FCC and has a

registration number of 1024410. The structure's address is 200 Pine Log Road, Beach Island, SC.

Allocation Studies

The F(50,50) 60.0 dBuV/m protected service contour for the proposed WACG-FM facility is depicted in Exhibit 8. It can be seen that the proposed facility's F(50,50) 60.0 dBuV/m service contour would completely encompass the entire community of Augusta, GA which is the designated principal community for the WACG-FM station.

Exhibit 9 is an FM-to-FM interference study which verifies that the proposed 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 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.

Exhibit 10 is a pictorial depiction of the contour relationship between the proposed WACG-FM facility's F(50,50) 60.0 dBuV/m protected (black) and F(50,10) 40.0 dBuV/m interfering (red) contours and the WYFH-FM facility's F(50,50) 60.0 dBuV/m protected (black) 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.

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 (black) and F(50,10) 54.0 dBuV/m interfering (red) contours and the WUSC-FM facility's F(50,50) 60.0 dBuV/m protected (black) 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.

Exhibit 12 is a pictorial depiction of the contour relationship between the proposed WACG-FM facility's F(50,50) 60.0 dBuV/m protected (black) and F(50,10) 40.0 dBuV/m interfering (red) contours and the WFAE-FM facility's F(50,50) 60.0 dBuV/m protected (black) 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.

Exhibit 13 is a map depicting the protected and interfering contours over pertinent arcs, of all applicable stations, to demonstrate the absence of objectionable interference.

Exhibit 14 is a contour map depicting the WJBF-TV Channel 6 F(50,50) 47.0 dBuV/m protected Grade B contour and the associated F(50,10) 71.7 dBuV/m interfering contour for the proposed WACG-FM facility. It can be seen that the two sites are collocated.

Exhibit 15 depicts the licensed WACG-FM service contour (red) and the proposed service contour (blue). The green area between the two contours represents the increased coverage area that would serve the public with the proposed WACG-FM facility. It can be seen by referring to the map that the population gain would be 24,372 persons and the ERP reduction would be 21.3 kW.

Exhibit 16 is a table depicting the maximum ERP allowable for collocated non-commercial educational FM (“NCE-FM”) stations and the yellow highlighted cells show that a collocated NCE-FM Channel 214 facility could operate with a maximum ERP of 46.8 kW. Of course, the proposed WACG-FM facility could not operate with an ERP of 46.8 kW because it has been shown that the maximum ERP, without causing interference to another NCE-FM station, is 3.7 kW based on the proposed parameters.

The WACG-FM antenna and the new WJBF-TV Channel 6 antenna are not on the same support structure; however, Exhibit 17 demonstrates that the two sites are only 0.36 km apart and §73.525(d) of the FCC rules states that a NCE-FM station that is located 0.4 km or less from a TV Channel 6 station is considered collocated. Exhibit 17 is a path profile study which also demonstrates that the two sites are located only 0.36 km apart.

§73.525(d)(2) of the FCC rules states that a NCE-FM application must include a certification that the applicant has coordinated its antenna with the affected TV station by employing either

the same number of antenna bays with radiation centers separated by no more than 30 meters vertically or the FM vertical pattern would not exceed the TV vertical pattern by more than 2 dB. Exhibit 20 is a vertical pattern chart comparing the differences between the licensed WJBF-TV vertical pattern (blue) and the proposed WACG-FM vertical pattern (red). The two antennas are separated by more than 30 meters vertically; therefore, the intent of this exhibit is to demonstrate that the FM vertical pattern would not exceed the TV vertical pattern by 2 dB. Referring to Exhibit 20, it does not appear that the FM vertical pattern would exceed the TV vertical pattern by 2 dB; however, this exhibit was prepared using relative field data. Exhibit 21 compares the vertical patterns in dB and it can be seen that the FM vertical pattern would exceed the TV vertical pattern by more than 2 dB.

Exhibit 22 is a TV Channel 6 study depicting the WJBF-TV Channel 6 contours from the F(50,50) 47.0 dBuV/m contour to the F(50,50) 68.0 dBuV/m contour as well as the WACG-FM associated F(50,10) interfering contours. It can be seen that there are no intersections at any point.

Exhibit 23 is a TV Channel 6 study depicting the WJBF-TV Channel 6 contours from the F(50,50) 69.0 dBuV/m contour to the F(50,50) 90.0 dBuV/m contour as well as the WACG-FM associated F(50,10) interfering contours. Again, it can be seen that there are no intersections at any point.

The FCC rules state that in the cases where the predicted interference area to a TV Channel 6 station from a NCE-FM station is located within the F(50,50) contour of the TV Channel 6 station, the location of the FM interfering contour must be determined using the assumption that the Channel 6 field strength remains constant at 90 dBu everywhere within the 90 dBu TV contour. Exhibit 24 is a contour map depicting the licensed WJBF-TV Channel 6 F(50,50) 90.0 dBuV/m contour and the associated WACG-FM F(50,10) 91.3 dBuV/m interfering contour. It can be seen that the two contours do not overlap; however, the area inside the WACG-FM 91.3 dBuV/m interfering contour would be considered the interference area based on the fact that the WJBF-TV Channel 6 field strengths are to be considered constant at 90.0 dBu everywhere within its 90.0 dBu contour.

The method to calculate the predicted interference area and population is depicted in §73.525(e) of the FCC rules; however, this method is not required if a station meets the collocation criteria depicted in §73.525(d) of the FCC rules. The proposed WACG-FM facility meets the distance requirement to be considered a collocated station and the proposed antenna would employ the same number of bays (six) as the licensed WJBF-TV Channel 6 antenna; however, the WJBF-TV Channel 6 antenna height radiation center is 68.7 meters higher than proposed WACG-FM antenna height radiation center, which is greater than the 30-meter requirement. The proposed WACG-FM vertical pattern does not exceed the WJBF-TV Channel 6 vertical pattern by more than 2 dB except at 17°, 18°, 26°, 27°, 35° and 36° below the horizontal. This means that 0° through 16°, 19° through 25°, 28° through 34° and 37° through 90° are all within the 2 dB requirement. It is also important to recognize the following: 1) WJBF-TV Channel 6 ERP is 100 kW and the proposed WACG-FM ERP is only 3.7 kW; 2) the WJBF-TV Channel 6 antenna height radiation center is 448.7 meters AGL and the proposed WACG-FM antenna height radiation center is 380 meters AGL; 3) the WACG-FM facility operates on Channel 214 which is 13 channels above an 88.1 MHz FM facility which means it would be more likely to cause less, if any, interference; 4) the WJBF-TV Channel 6 antenna and the proposed WACG-FM antenna both have 6 bays; and 5) the WJBF-TV Channel 6 facility and the proposed WACG-FM facility are considered collocated. Based on the conditions stated above, it seems very likely that the proposed WACG-FM facility would cause zero percent (0.0%) interference to the licensed WJBF-TV Channel 6 facility.

Supplemental Showing

Therefore, GPTC respectfully requests authorization to make full use of terrain shielding and Longley-Rice terrain dependent propagation methods to demonstrate that the proposed WACG-FM Channel 214 facility would not cause interference to the licensed WJBF-TV Channel 6 station. Exhibit 25 depicts the Longley-Rice interference map which was prepared using the actual vertical patterns for the licensed WJBF-TV Channel 6 facility and the proposed WACG-FM Channel 214 facility. All cells predicted to receive interference within the licensed WJBF-TV Channel 6 F(50,50) 47.0 dBuV/m protected Grade B contour from the proposed WACG-FM Channel 214 facility would be depicted in red. It can be seen by referring to Exhibit 25 that that

the proposed WACG-FM Channel 214 facility is predicted to cause zero percent (0.0%) interference to the licensed WJBF-TV Channel 6 facility. Exhibit 26 is a Longley-Rice interference population report which further demonstrates that the proposed WACG-FM Channel 214 facility is predicted to cause zero percent (0.0%) interference to the licensed WJBF-TV Channel 6 facility.

In a Report & Order released August 22, 1997 (MM Docket 96-58 Para 68) the FCC stated that supplemental showings have been accepted for review in the context of a noncommercial educational FM station demonstrating compliance with the Channel 6 interference provisions of 47 C.F.R. Section 73.525.

The acceptance of this supplemental showing and grant of this application would benefit the public significantly by providing the listeners with a stronger, more robust signal due to the 974-foot antenna height radiation center increase which would eliminate terrain obstruction.

An operational auxiliary antenna would be in place for the first time and would allow continuous broadcasting to the public which is especially essential for times of emergency.

The existing WACG-FM 5-bay Jampro antenna does not have de-icing capability and the facility suffers downtime frequently due to heavy icing in that portion of the state.

The existing facility uses a 20 kW Continental transmitter which requires a hefty ten ton air-conditioning unit to keep it cool. The existing facility has experienced maintenance problems with the air-conditioning unit and it frequently experiences over temperature conditions in the summer months which also leads to downtime.

It should also be recognized that the proposed facility would directly result in savings to the public since the ERP would only be 3.7 kW instead of 25 kW which would reduce the transmitter output power from 20 kW to 0.61 kW. Additionally, the air conditioning expenses and maintenance would be significantly reduced since the proposed facility would operate with a low power, solid state transmitter.

Area and population Analysis

The population served by the proposed 1 mV/m contour (60.0 dBuV/m) was determined using 2000 U.S. Census data. The area and population within the proposed WACG-FM 1 mV/m contour is 7,253.59 sq km and 472,707 persons respectively. The area and population within the licensed WACG-FM 1 mV/m contour is 5,644.22 sq km and 448,335 persons respectively. This represents an area gain of 1,609.37 sq km and a population gain of 24,372 persons (Exhibit 15). The percentage change in area ($1,609.37/5,644.22$) is 28.5% and the percentage change in population ($24,372/448,335$) is 5.4%.

Intermediate Frequency Interference (53rd & 54th 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 WWDM-FM Channel 267 Class C facility located approximately 128.86 km from the proposed WACG-FM transmitter site in Sumter, SC at North Latitude $34^{\circ} 03' 04''$ and West Longitude $80^{\circ} 40' 55''$ where a separation of 35 km is required; therefore, the distance is easily met with a margin of 93.9 km (Exhibit 9).

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 0.76 km from its transmitter and it is understood that the 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 WACG-FM blanketing contour, including to the collocated WLJK-FM facility.

Environmental Impact

The proposed WACG-FM Channel 214 Class C2 facility would have no significant environmental impact as defined in §1.1307 of the FCC Rules. The FM transmitter, transmission line and antenna system would produce a maximum ERP of 3.7 kW (horizontal polarization). It was determined that the maximum lobe of radiation from the base of the tower out to approximately 2.16 miles would occur at approximately 868.3 feet from the base of the tower (1,513.8-foot radial distance from the antenna center). At approximately 868.3 feet from the base of the tower, the depression angle of the main lobe would be approximately 55.0° below the horizontal. At that point, the relative field is 0.280 and the power density six feet above the ground would be approximately 0.00005 mW/cm². This would only be 0.005% of the Maximum Permissible Exposure (“MPE”) limits for Occupational/Controlled Exposure and only 0.023% of the MPE limits for General Population/Uncontrolled Exposure authorized by the American National Standards Institute (“ANSI”).

Since operation of the proposed WACG-FM Channel 214 facility would 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 WACG-FM facility would not be considered a “significant contributor” to the RF exposure environment pursuant to OET Bulletin 65, Edition 97-01. Therefore, contributions of exposure from other sources were not accounted for in this analysis. It is safe to conclude that the emissions would be insignificant and well within the maximum allowable requirements.

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

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

11 October, 2005

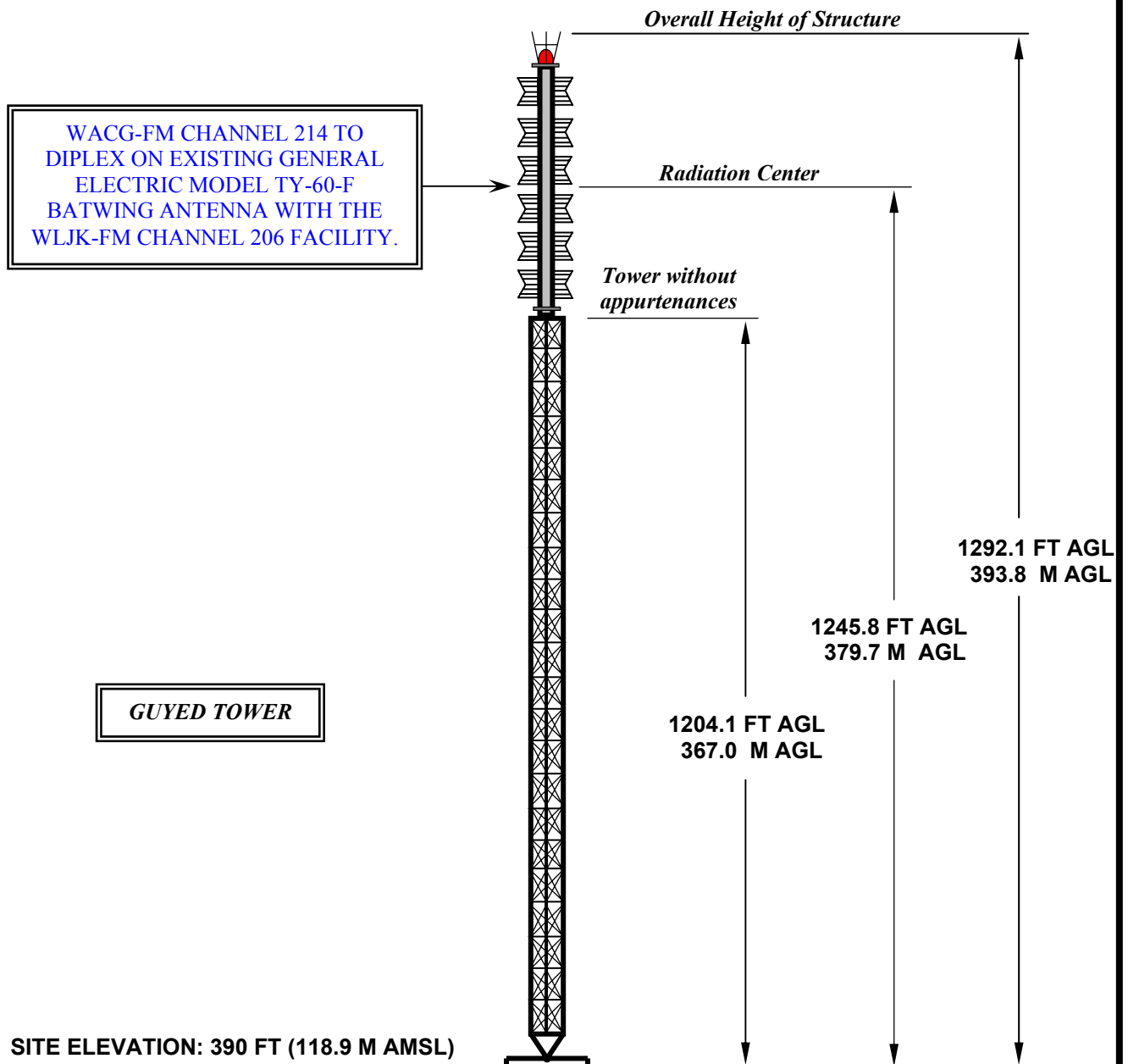
WACG-FM
Augusta, Georgia

**DATA FOR PROPOSED
NONDIRECTIONAL TRANSMITTING ANTENNA**

- A. **Antenna:** General Electric Model TY-60-F Batwing Antenna.
- B. **Electrical Beam Tilt:** None
- C. **Mechanical Beam Tilt:** None
- D.

<u>Maximum Power Gain</u>	<u>Horizontal Polarization</u>
Maximum:	7.92 (8.99 dB)
Horizontal:	7.92 (8.99 dB)
- E. **Length:** 83.0 feet (25.3 meters) – without lightning protector
- F. **Transmitter Power Output (TPO):** 0.61 kW
- G. **Transmission Line:** 3-1/8" 50-ohm Rigid
- H. **Transmission Line Efficiency:** 76.2%
- I. **Transmission Line Length:** 1,250 feet
- J. **Transmission Line Loss:** 0.094 dB/100 ft
- K. **Transmission Line Attenuation:** 1.18 dB

ELEVATION VIEW



OVERALL HEIGHT AGL:	393.8 M
OVERALL HEIGHT AMSL:	512.7 M
RADIATION CENTER AGL:	379.7 M
RADIATION CENTER AMSL:	498.6 M
RADIATION CENTER HAAT:	420.8 M
AVG OF ALL NON-ODD RADIALS:	77.8 M
SITE HAAT:	41.1 M

COORDINATES (NAD 27):

N. LATITUDE 33° 24' 18"
W. LONGITUDE 81° 50' 15"

Antenna Structure Registration Number:
1024410

NOTE: NOT TO SCALE

KESSLER AND GEHMAN

TELECOMMUNICATIONS CONSULTING ENGINEERS

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

WACG-FM CHANNEL 214C2

AUGUSTA, GEORGIA

20050826

EXHIBIT 3



Proposal Number

Revision

Date

29 Jul 2005

Call Letters

WJBFChannel **6**

Location

Augusta, GA

Customer

Antenna Type

TY-60-F**ELEVATION PATTERN**

RMS Gain at Main Lobe

6.6 (8.20 dB)

Beam Tilt

0.00 Degrees

RMS Gain at Horizontal

6.6 (8.20 dB)

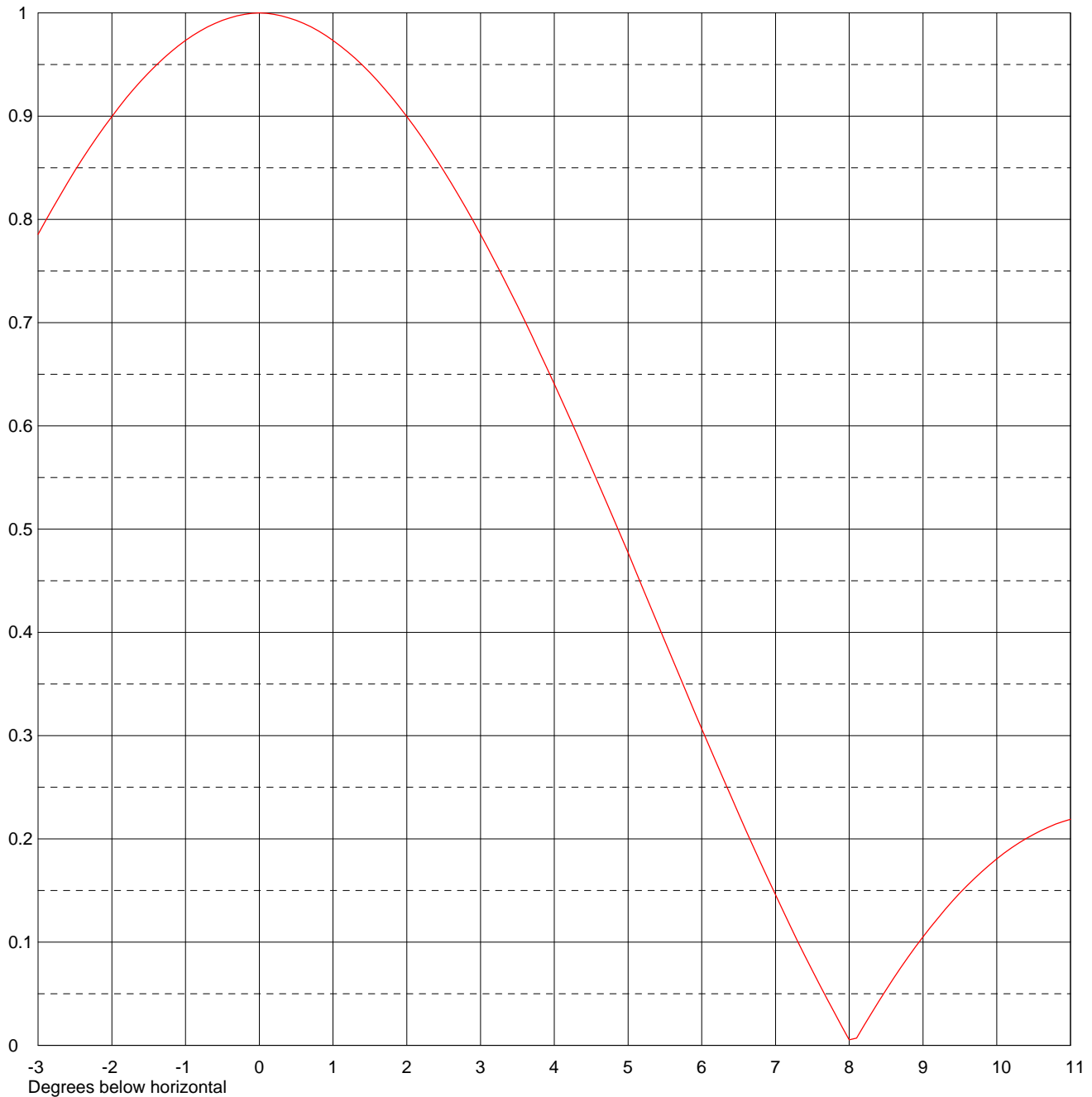
Frequency

85.00 MHz

Calculated / Measured

Calculated

Drawing #

06S066000-0850

Remarks:



Proposal Number

Revision

Date

29 Jul 2005

Call Letters

WJBFChannel **6**

Location

Augusta, GA

Customer

Antenna Type

TY-60-F**ELEVATION PATTERN**

RMS Gain at Main Lobe

6.6 (8.20 dB)

Beam Tilt

0.00 Degrees

RMS Gain at Horizontal

6.6 (8.20 dB)

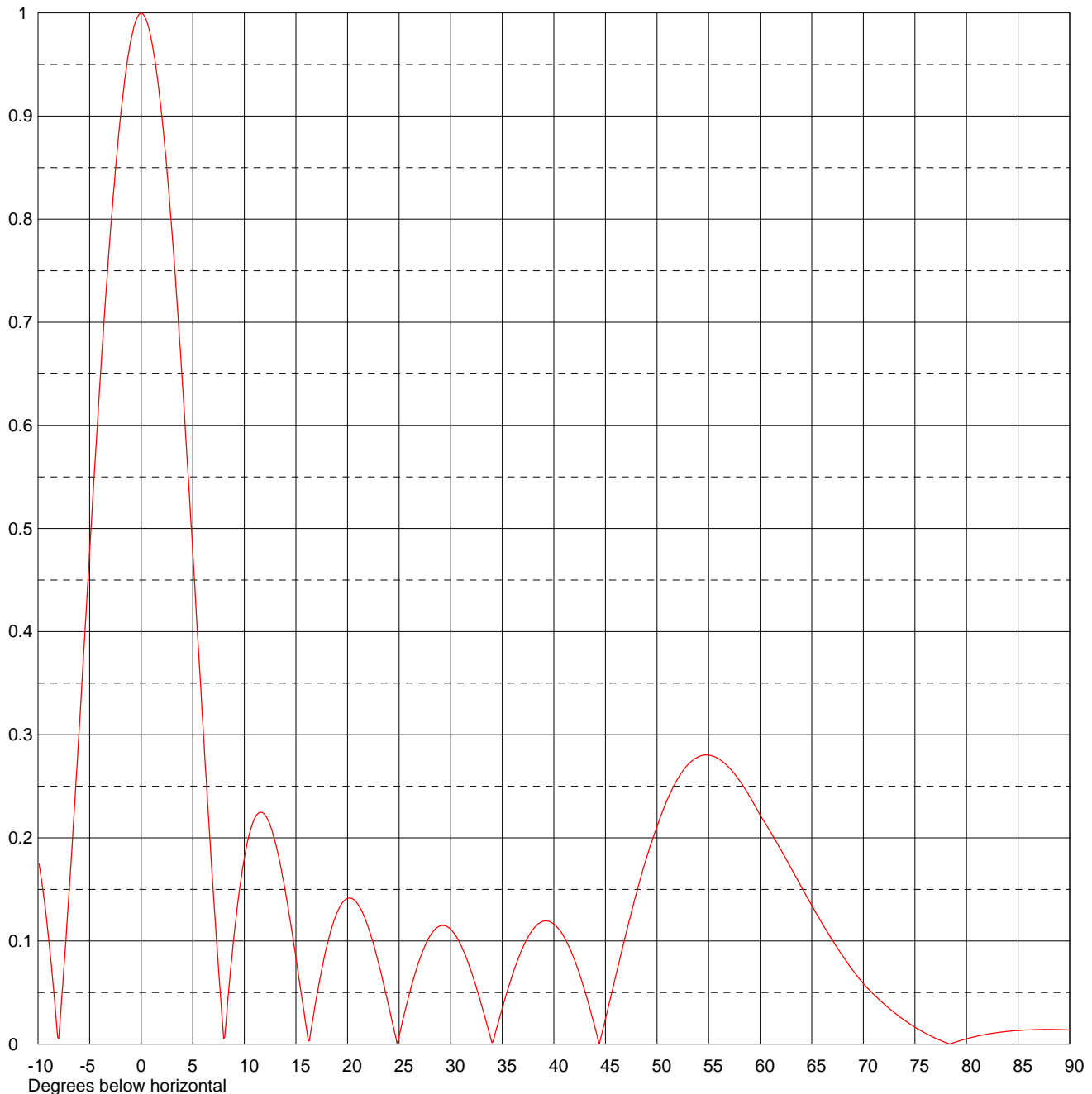
Frequency

85.00 MHz

Calculated / Measured

Calculated

Drawing #

06S066000-0850-90

Remarks:



Proposal Number

Revision

Date

29 Jul 2005

Call Letters

WJBF

Channel **6**

Location

Augusta, GA

Customer

Antenna Type

TY-60-F

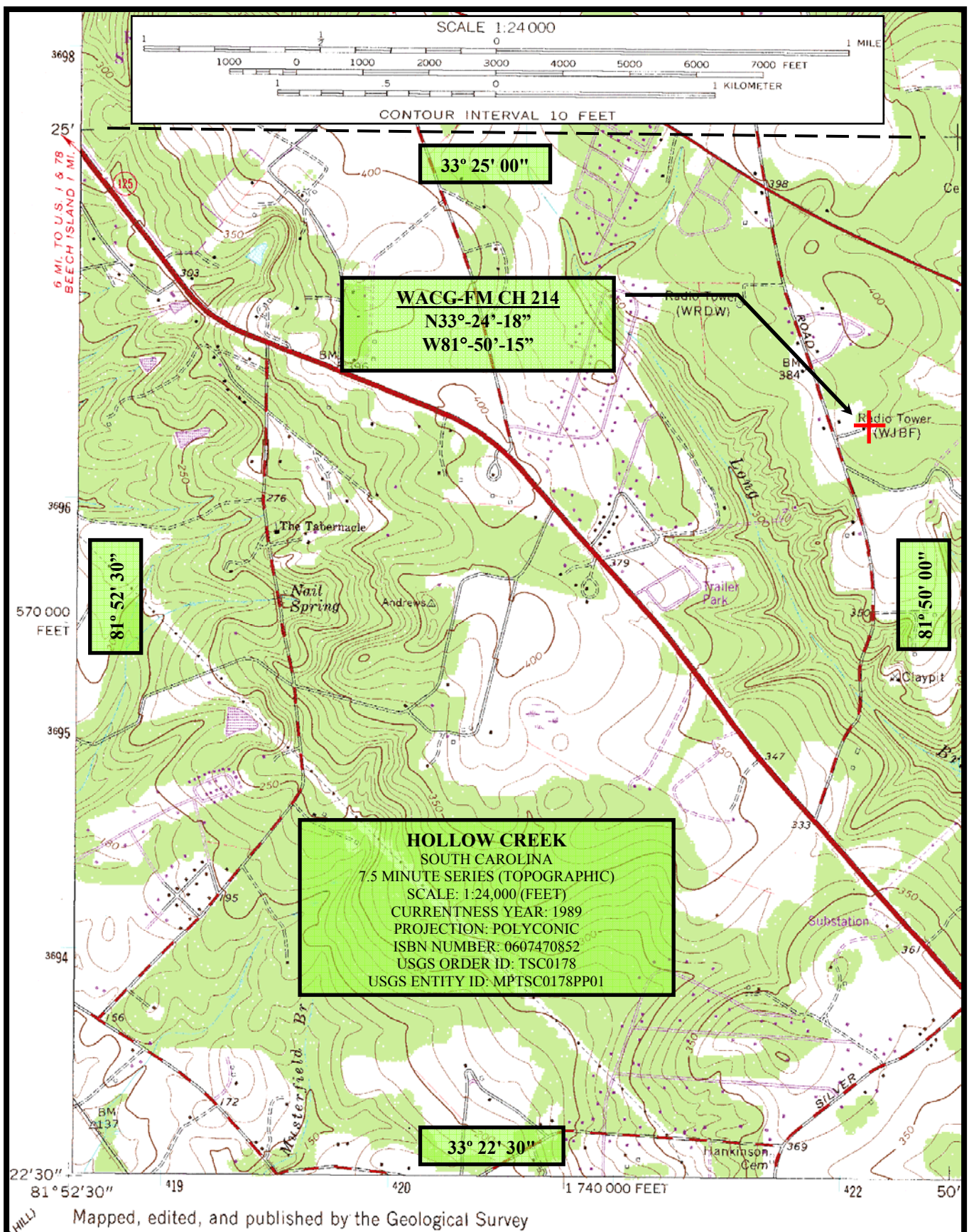
TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #

06S066000-0850-90

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.181	2.4	0.858	10.6	0.208	30.5	0.105	51.0	0.237	71.5	0.044
-9.5	0.148	2.6	0.836	10.8	0.214	31.0	0.096	51.5	0.248	72.0	0.039
-9.0	0.105	2.8	0.811	11.0	0.219	31.5	0.084	52.0	0.257	72.5	0.035
-8.5	0.054	3.0	0.786	11.5	0.225	32.0	0.070	52.5	0.265	73.0	0.031
-8.0	0.006	3.2	0.759	12.0	0.222	32.5	0.055	53.0	0.271	73.5	0.027
-7.5	0.072	3.4	0.731	12.5	0.212	33.0	0.038	53.5	0.276	74.0	0.023
-7.0	0.146	3.6	0.702	13.0	0.196	33.5	0.020	54.0	0.279	74.5	0.020
-6.5	0.224	3.8	0.672	13.5	0.173	34.0	0.001	54.5	0.280	75.0	0.017
-6.0	0.307	4.0	0.641	14.0	0.147	34.5	0.017	55.0	0.280	75.5	0.014
-5.5	0.392	4.2	0.609	14.5	0.116	35.0	0.035	55.5	0.279	76.0	0.011
-5.0	0.477	4.4	0.577	15.0	0.084	35.5	0.052	56.0	0.277	76.5	0.008
-4.5	0.560	4.6	0.544	15.5	0.050	36.0	0.068	56.5	0.273	77.0	0.006
-4.0	0.641	4.8	0.511	16.0	0.016	36.5	0.082	57.0	0.268	77.5	0.004
-3.5	0.716	5.0	0.477	16.5	0.016	37.0	0.094	57.5	0.262	78.0	0.001
-3.0	0.786	5.2	0.443	17.0	0.046	37.5	0.104	58.0	0.256	78.5	0.001
-2.8	0.811	5.4	0.409	17.5	0.072	38.0	0.112	58.5	0.248	79.0	0.002
-2.6	0.836	5.6	0.374	18.0	0.095	38.5	0.117	59.0	0.240	79.5	0.004
-2.4	0.858	5.8	0.340	18.5	0.114	39.0	0.119	59.5	0.231	80.0	0.005
-2.2	0.880	6.0	0.307	19.0	0.128	39.5	0.119	60.0	0.222	80.5	0.007
-2.0	0.900	6.2	0.273	19.5	0.137	40.0	0.116	60.5	0.214	81.0	0.008
-1.8	0.918	6.4	0.241	20.0	0.141	40.5	0.111	61.0	0.206	81.5	0.009
-1.6	0.935	6.6	0.208	20.5	0.141	41.0	0.104	61.5	0.197	82.0	0.010
-1.4	0.949	6.8	0.177	21.0	0.136	41.5	0.094	62.0	0.189	82.5	0.011
-1.2	0.962	7.0	0.146	21.5	0.127	42.0	0.082	62.5	0.180	83.0	0.011
-1.0	0.973	7.2	0.116	22.0	0.114	42.5	0.068	63.0	0.171	83.5	0.012
-0.8	0.983	7.4	0.087	22.5	0.097	43.0	0.052	63.5	0.162	84.0	0.012
-0.6	0.990	7.6	0.058	23.0	0.079	43.5	0.034	64.0	0.152	84.5	0.013
-0.4	0.995	7.8	0.031	23.5	0.058	44.0	0.016	64.5	0.143	85.0	0.013
-0.2	0.999	8.0	0.006	24.0	0.037	44.5	0.004	65.0	0.135	85.5	0.014
0.0	1.000	8.2	0.019	24.5	0.014	45.0	0.024	65.5	0.126	86.0	0.014
0.2	0.999	8.4	0.043	25.0	0.008	45.5	0.045	66.0	0.117	86.5	0.014
0.4	0.995	8.6	0.065	25.5	0.029	46.0	0.066	66.5	0.109	87.0	0.014
0.6	0.990	8.8	0.086	26.0	0.049	46.5	0.087	67.0	0.101	87.5	0.014
0.8	0.983	9.0	0.105	26.5	0.067	47.0	0.107	67.5	0.093	88.0	0.014
1.0	0.973	9.2	0.123	27.0	0.082	47.5	0.127	68.0	0.086	88.5	0.014
1.2	0.962	9.4	0.140	27.5	0.095	48.0	0.146	68.5	0.078	89.0	0.014
1.4	0.949	9.6	0.155	28.0	0.105	48.5	0.164	69.0	0.071	89.5	0.014
1.6	0.935	9.8	0.169	28.5	0.112	49.0	0.181	69.5	0.065	90.0	0.014
1.8	0.918	10.0	0.181	29.0	0.115	49.5	0.197	70.0	0.059		
2.0	0.900	10.2	0.191	29.5	0.115	50.0	0.211	70.5	0.053		
2.2	0.880	10.4	0.200	30.0	0.111	50.5	0.225	71.0	0.048		

Remarks:



Mapped, edited, and published by the Geological Survey

KESSLER AND GEHMAN

TELECOMMUNICATIONS CONSULTING ENGINEERS

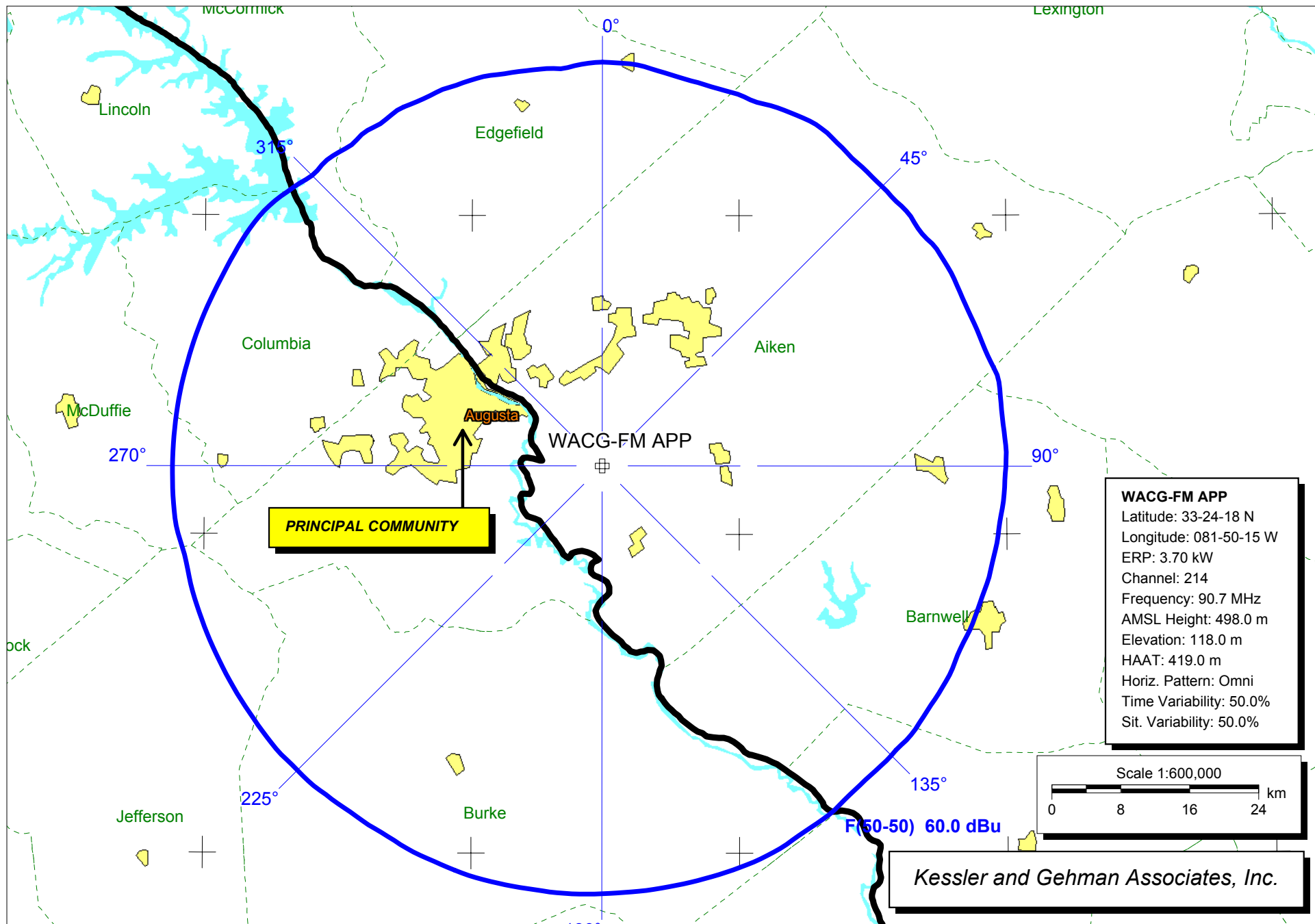
507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

WACG-FM CHANNEL 214

AUGUSTA, GEORGIA

20050826

EXHIBIT 7



WACG-FM Channel 214 F(50,50) 60.0 dBuV/m Protected Service Contour

WACG-FM Channel 214
FM Interference Study

REFERENCE 33 24 18 N. 81 50 15 W.	CH# 214C2 - 90.7 MHz, Pwr= 3.7 kw, HAAT=420.8 M, COR= 499 M Average Protected F(50-50)= 48.01 km Ave. F(50-10) 40 dBu= 119.5 54 dBu= 72.4 80 dBu= 17.1 100 dBu= 3.7	DISPLAY DATES DATA 07-20-05 SEARCH 08-26-05
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CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kw) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
214C2 North Charleston	WYFHA	LIC DCN SC	107.4 288.3	157.23 BLED19911016KA	32 58 23 80 13 54	13.520 146	158 107.7	40.2 Bible Broadcasting Network	2.80	0.39
213A Columbia	WUSCFM	LIC CN SC	48.5 229.0	100.40 BLED19870817KD	34 00 02 81 01 19	2.500 91	148 33.0	22.2 The University of South Ca	21.41	9.06
214C0 Charlotte	WFAE	LIC DCX NC	26.3 206.9	233.72 BLED20050223ACA	35 17 14 80 41 45	65.244 322	544 164.0	69.7 University Radio Foundatio	23.42	48.22
212C1 Orangeburg	WSSBFM	LIC DEN SC	83.3 263.8	93.17 BLED19850212KW	33 29 55 80 50 30	40.153 58	128 3.5	34.4 South Carolina State Unive	42.83	55.12
214C2 Griffin	WMVV	LIC DCX GA	269.6 88.3	213.65 BLED20030321ABI	33 22 12 84 08 00	18.000 163	381 116.6	44.7 Life Radio Ministries, Inc	47.18	45.60
213C2 Byron	WPWB	LIC CN GA	241.0 60.2	164.03 BLED19900319KA	32 40 55 83 22 10	16.500 136	260 61.0	40.7 Augusta Radio Fellowship I	53.11	48.00
215C1 Toccoa Falls	WRAF	LIC DEN GA	313.7 132.9	193.56 BLED19860211KD	34 35 57 83 21 55	100.000 234	513 98.4	66.9 Toccoa Falls College	47.24	54.44
217C1 Columbia	WLTR	LIC C SC	46.1 226.6	115.02 BMLLED20041208AAT	34 07 07 80 56 12	100.000 241	331 9.1	67.5 South Carolina Educational	60.02	43.85
214C3 Fitzgerald	AP214	APP CX GA	211.5 30.8	216.15 BNPED20000207AAS	31 44 19 83 01 54	12.000 117	175 100.9	35.7 Christian Radio Media, Inc	65.55	57.55
216C Savannah	WSVH	LIC CN GA	161.3 341.6	157.58 BLED19810417AH	32 03 32 81 17 57	100.000 321	330 10.4	73.9 Georgia Public Telecommuni	97.83	79.85
211C Savannah	WSVH.A	APP CX GA	161.2 341.5	157.62 BMLLED20050301ABH	32 03 31 81 17 55	100.000 321	330 10.5	73.9 Georgia Public Telecommuni	97.88	79.89
214C3 Brunswick	WAYRFM	LIC DCX GA	172.4 352.6	247.31 BLED20031104AAN	31 11 39 81 29 30	6.675 96	103 87.6	28.4 Good Tidings Trust, Inc	110.19	96.39
211C Greenville	WEPR	LIC CN SC	343.0 162.7	178.33 BLED19870508KA	34 56 26 82 24 38	85.000 369	669 10.7	75.8 South Carolina Educational	120.36	98.82
213C3 Florence	980224	APP DVX SC	64.9 246.0	203.42 BPED19980224MB	34 09 50 79 50 17	12.073 66	109 43.3	27.4 Francis Marion University	114.00	106.51
213C3 Florence	980224	APP DCX SC	64.9 246.0	203.42 BPED19980224MB	34 09 50 79 50 17	12.073 66	109 43.3	27.4 Francis Marion University	114.00	106.51
213C3 Florence	980224	APP DCN SC	64.9 246.0	203.42 BPED19980224MB	34 09 50 79 50 17	12.073 65	108 43.0	27.3 Francis Marion University	114.30	106.68
267C Sumter	WWDMM	LIC DEN SC	55.8 236.4	128.86 BMLH19980925KB	34 03 04 80 40 55	86.634 382	471 91.9	76.9 Urban Radio Ii, L.l.c.	35.0R	93.9M
213A Jesup	WTLD	LIC CX GA	182.7 2.6	200.72 BLED20020305AAO	31 35 49 81 56 14	6.000 44	78 28.1	19.1 Resurrection House Ministr	122.83	106.44
06+2C Augusta	WJBF	LI HY GA	80.3 260.3	0.37 BLCT20040130AOR	33 24 20 81 50 01	100.000 516	563 27.2	121.8 Media General Broadcasting	187.0R	-186.6M

ERP and HAAT are on direct line to and from reference station.
 • affixed to TV6 Margin= no direct-line contour overlap.

^ = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements

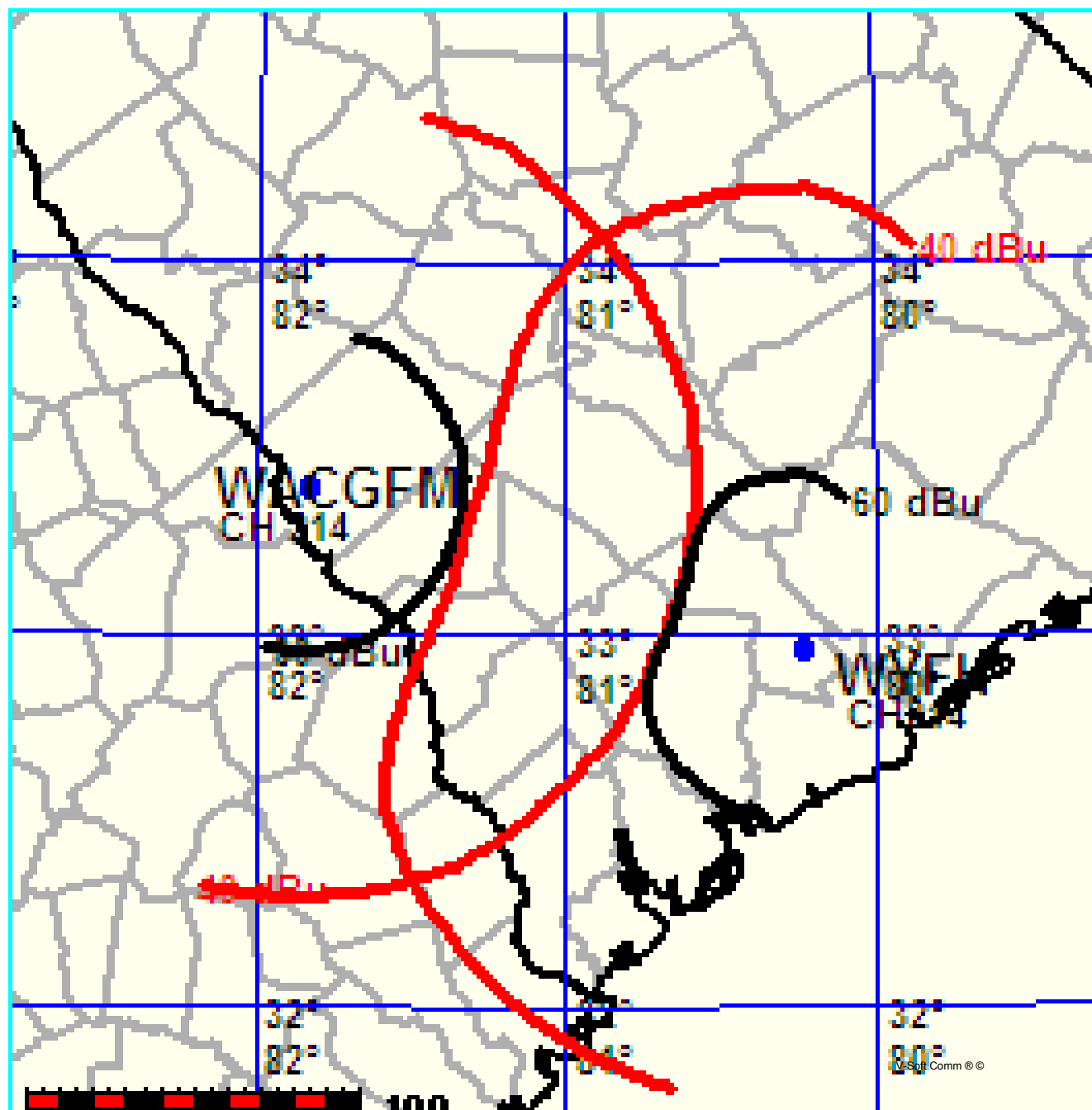
WACG-FM Channel 214
Allocation Study

FMCommander Allocation Study
08-26-2005

WACGFM CH 214 C2
3.7 kW 499 M COR
Prot. = 60 dBu
Intef. = 40 dBu

WYFH CH 214 C2 BLED19911016KA
50 kW, 158 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

Scale = 1:3,000,000



WACG-FM Channel 214
Allocation Study

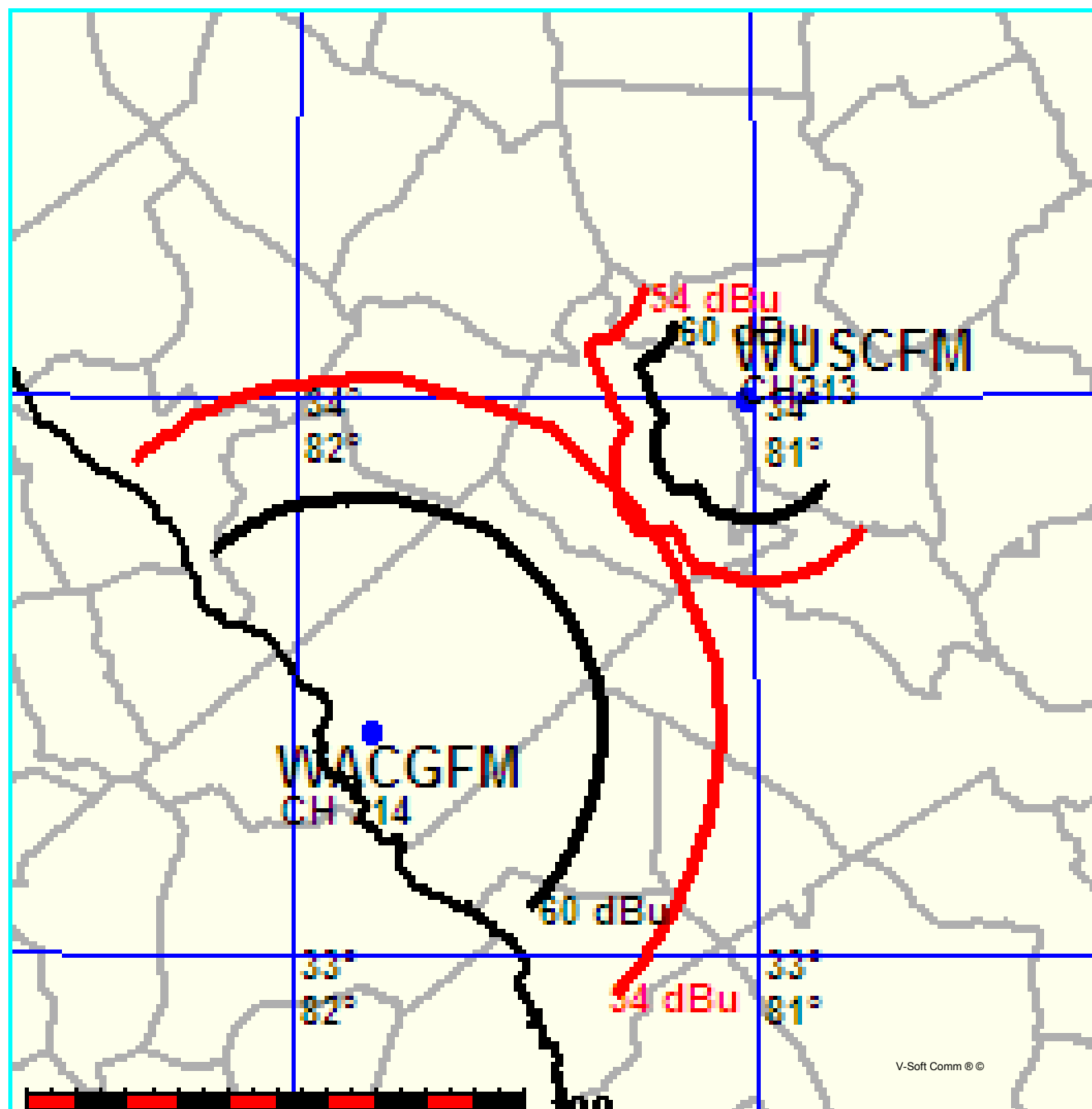
FMCommander Allocation Study
08-26-2005

WACGFM CH 214 C2
3.7 kW 499 M COR
Prot. = 60 dBu
Intef. = 54 dBu

WUSCFM CH 213 A
2.5 kW, 148 M COR
Prot. = 60 dBu
Intef. = 54 dBu

BLED19870817KD

Scale = 1:2,000,000



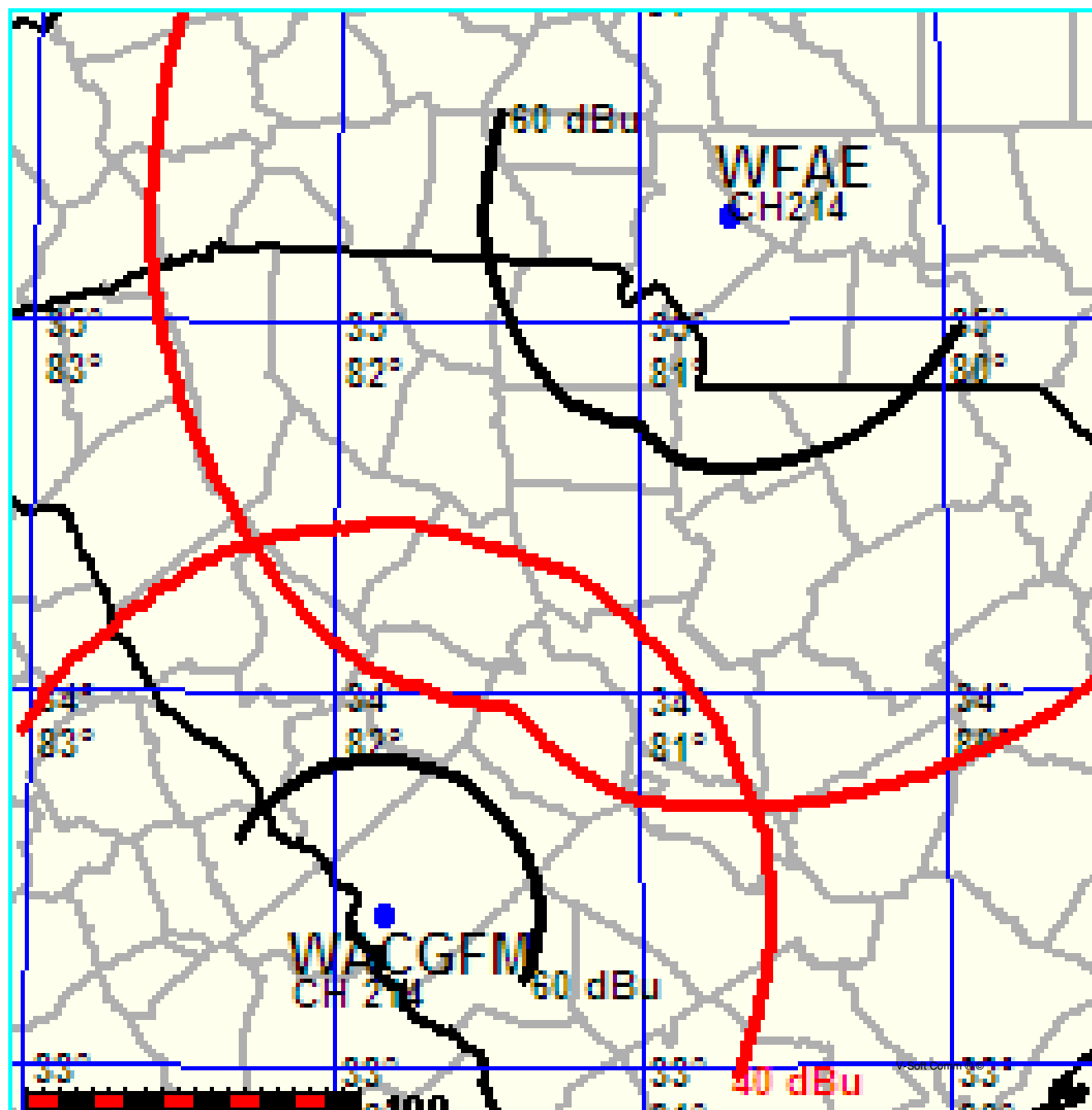
WACG-FM Channel 214
Allocation Study

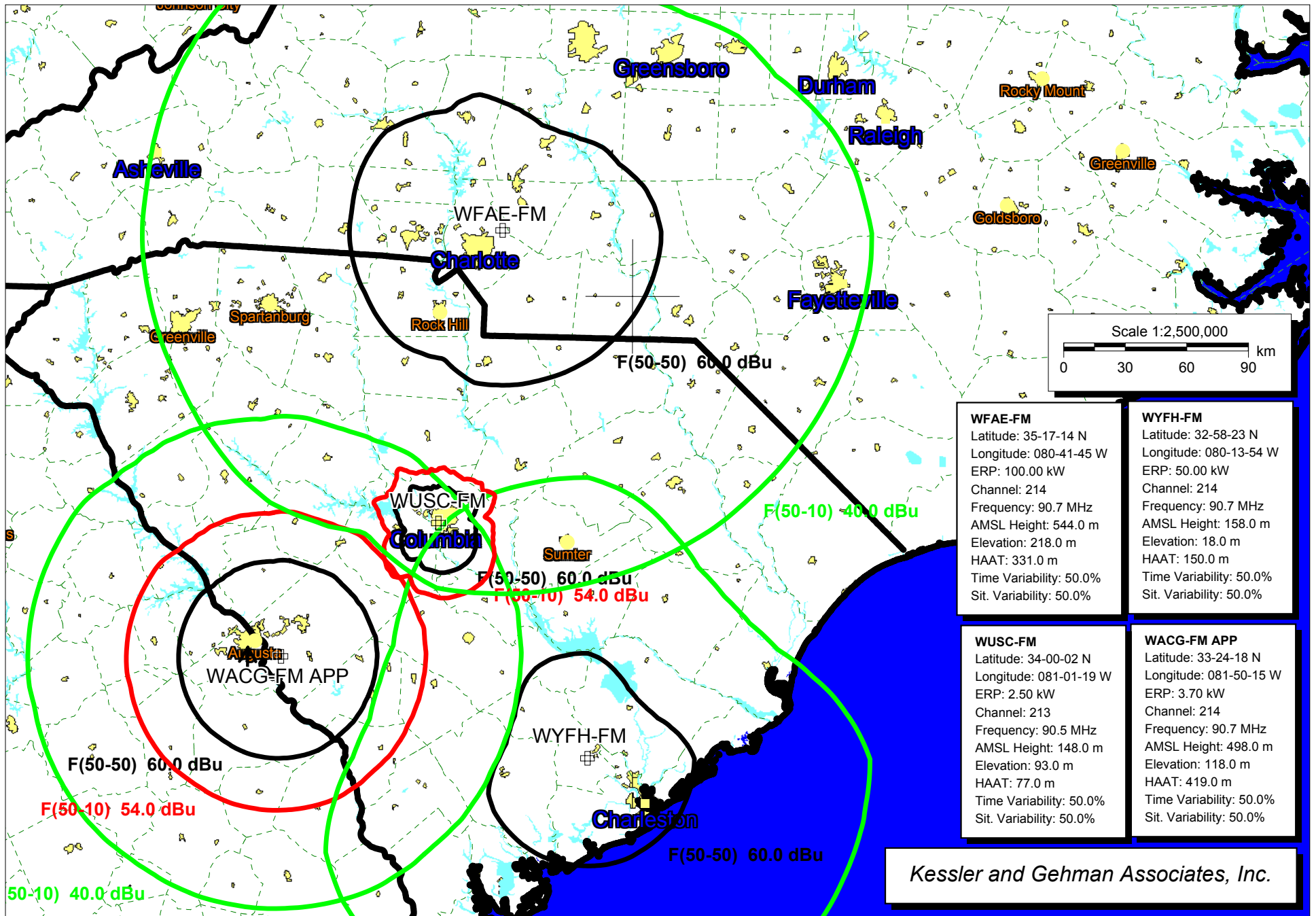
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08-26-2005

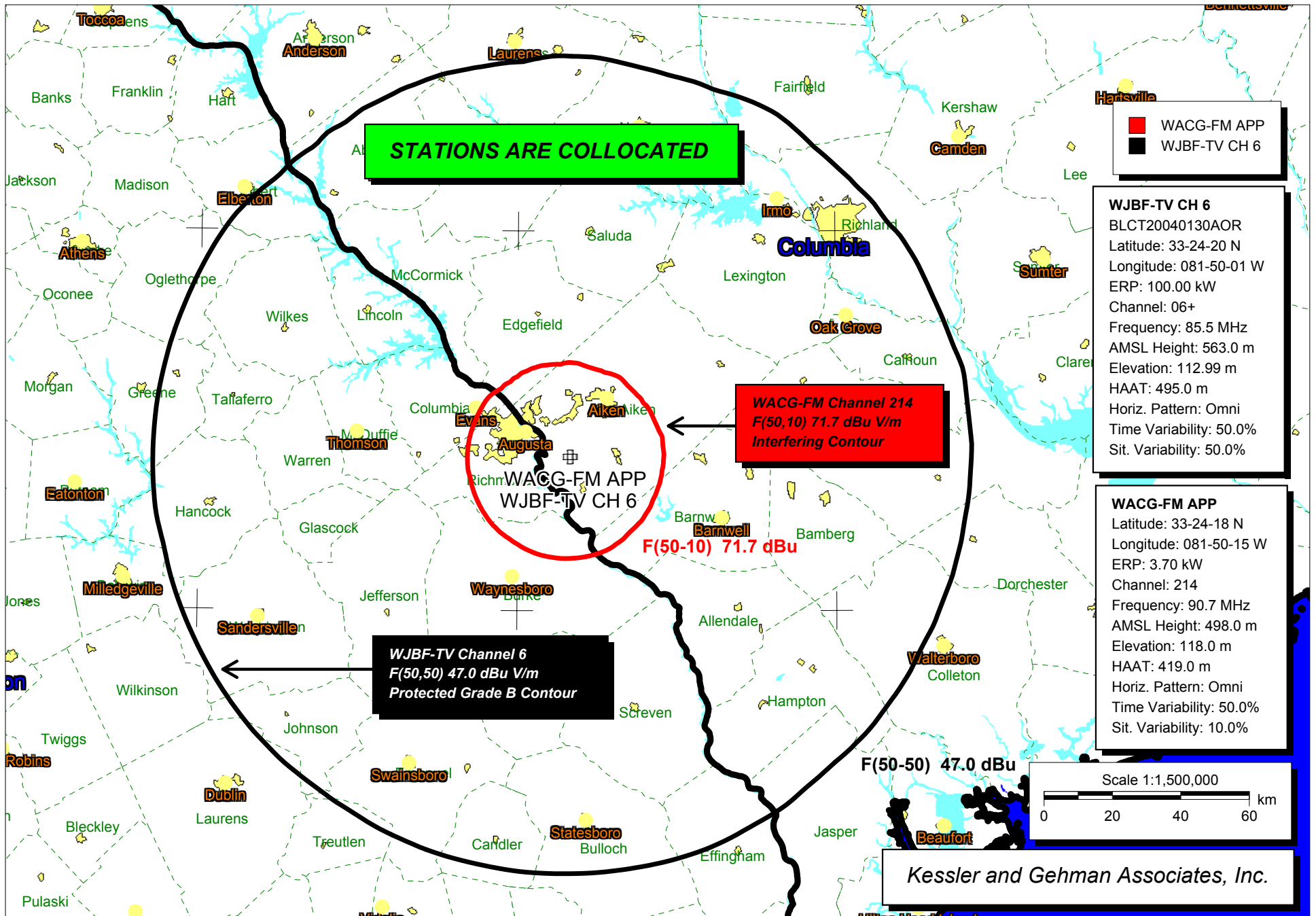
WACGFM CH 214 C2
3.7 kW 499 M COR
Prot. = 60 dBu
Intef. = 40 dBu

WFAE CH 214 C0 BLED20050223ACA
100 kW, 544 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

Scale = 1:3,000,000







WJBF-TV CHANNEL 6 PROTECTED GRADE B CONTOUR & WACG-FM CHANNEL 214 INTERFERING CONTOUR EXHIBIT 14

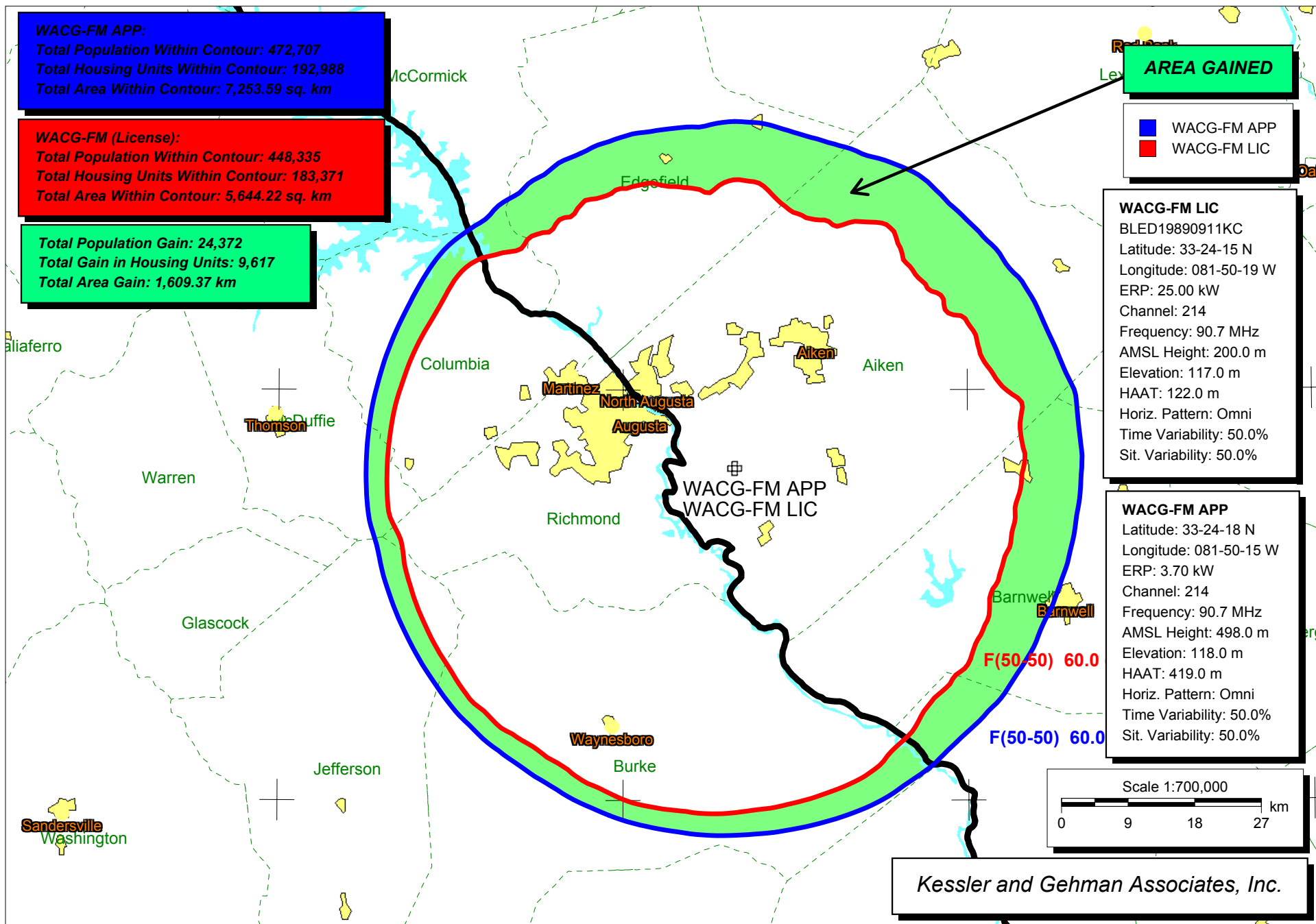


TABLE - COLLOCATED STATIONS

<i>NCE-FM Channel</i>	<i>Power (kW)</i>
201	1.1
202	1.9
203	3.1
204	5.0
205	8.3
206	10.0
207	12.0
208	14.8
209	17.8
210	21.4
211	26.3
212	31.6
213	38.0
214	46.8
215	56.2
216	67.6
217	83.2
218	100.0
219	100.0
220	100.0

STATIONS ARE COLLOCATED

0.36 KM APART

WACG-FM APP

WJBF-TV CH 6

WJBF-TV CH 6

BLCT20040130AOR
Latitude: 33-24-20 N
Longitude: 081-50-01 W
ERP: 100.00 kW
Channel: 06+
Frequency: 85.5 MHz
AMSL Height: 563.0 m
Elevation: 112.99 m
HAAT: 495.0 m
Horiz. Pattern: Omni
Time Variability: 50.0%
Sit. Variability: 50.0%

WACG-FM APP

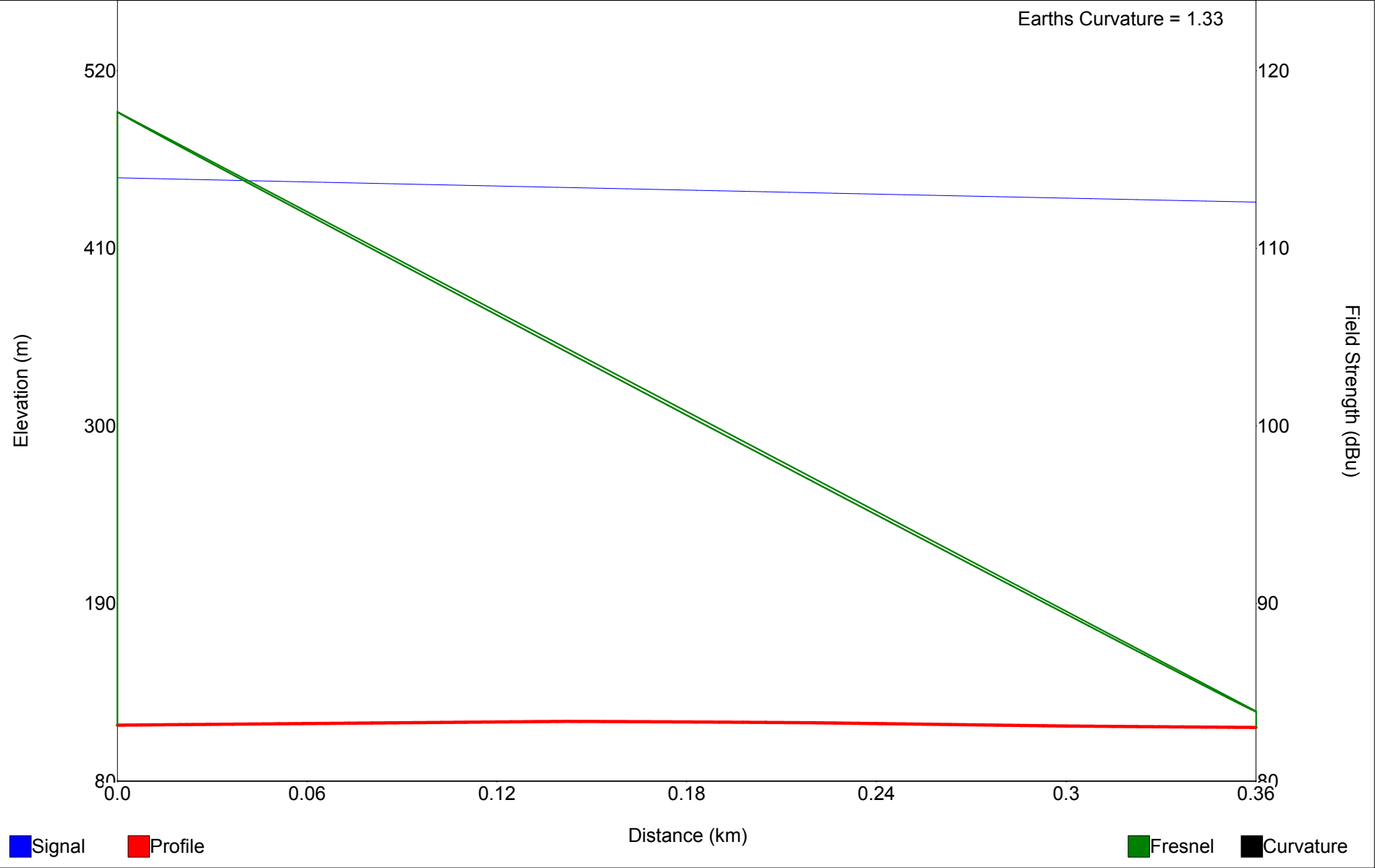
Latitude: 33-24-18 N
Longitude: 081-50-15 W
ERP: 3.70 kW
Channel: 214
Frequency: 90.7 MHz
AMSL Height: 498.0 m
Elevation: 118.0 m
HAAT: 419.0 m
Horiz. Pattern: Omni
Time Variability: 50.0%
Sit. Variability: 10.0%

Scale 1:5,000

0 0.07 0.13 0.2 km

Kessler and Gehman Associates, Inc.

Path Profile



Starting Latitude: 33-24-18 N
Starting Longitude: 081-50-15 W

End Latitude: 33-24-20.05 N
End Longitude: 081-50-01.10 W

Distance: 0.36 km
Bearing: 80.02 deg

Transmitter Height (AG) = 380.0 m
Receiver Height (AG) = 10.0 m

Transmitter Elevation = 114.5 m
Receiver Elevation = 113.1 m

Frequency = 90.7 MHz
Fresnel Zone: 0.6

Distance to Contour Calculations for the Proposed WACG-FM Facility

Transmitter Information:

Call Letters: WACG-FM APP
Latitude: 33-24-18 N
Longitude: 081-50-15 W
ERP: 3.70 kW
Channel: 214
Frequency: 90.7 MHz
AMSL Height: 498.0 m
Elevation: 118.0 m
HAAT: 419.0 m
Horizontal Antenna Pattern: Omni

Type of curve: FCC
Location Variability: 50.0 %
Time Variability: 50.0 %
Field Strength: 60.00 dBuV/m

Terrain: US 3 Arc-Second Database

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	46.8	398.5
1.0	46.8	397.8
2.0	46.8	397.2
3.0	46.8	396.9
4.0	46.7	396.8
5.0	46.7	395.4
6.0	46.6	393.2
7.0	46.4	390.3
8.0	46.3	387.5
9.0	46.2	385.2
10.0	46.0	383.0
11.0	46.0	381.3
12.0	45.9	379.8
13.0	45.8	378.7
14.0	45.8	378.8
15.0	45.8	377.7
16.0	45.7	377.2
17.0	45.8	377.7
18.0	45.8	378.0
19.0	45.8	379.0
20.0	45.9	379.8
21.0	45.9	379.4
22.0	45.8	378.0
23.0	45.8	378.7
24.0	46.0	381.5
25.0	46.1	384.6
26.0	46.2	387.0
27.0	46.3	388.7
28.0	46.4	390.4
29.0	46.5	392.2
30.0	46.6	394.0
31.0	46.7	395.6
32.0	46.7	396.3

Distance to Contour Calculations for the Proposed WACG-FM Facility

33.0	46.7	395.4
34.0	46.6	394.3
35.0	46.5	391.2
36.0	46.3	388.5
37.0	46.2	386.8
38.0	46.1	384.1
39.0	46.0	381.5
40.0	45.9	381.0
41.0	45.9	380.9
42.0	45.9	380.3
43.0	45.9	379.4
44.0	45.8	379.2
45.0	45.9	379.5
46.0	45.9	379.8
47.0	45.8	378.9
48.0	45.9	379.5
49.0	46.0	381.6
50.0	46.0	382.7
51.0	46.0	382.5
52.0	45.9	380.3
53.0	45.8	378.7
54.0	45.8	379.0
55.0	45.9	381.1
56.0	46.1	385.0
57.0	46.2	386.8
58.0	46.2	386.6
59.0	46.2	386.7
60.0	46.2	387.1
61.0	46.3	387.3
62.0	46.2	386.4
63.0	46.2	385.4
64.0	46.1	384.8
65.0	46.1	384.1
66.0	46.1	384.0
67.0	46.1	384.3
68.0	46.1	385.1
69.0	46.2	386.1
70.0	46.2	386.9
71.0	46.3	387.7
72.0	46.3	388.7
73.0	46.4	390.1
74.0	46.5	392.1
75.0	46.7	395.0
76.0	46.8	398.5
77.0	47.0	401.8
78.0	47.0	402.4
79.0	47.0	401.0
80.0	46.9	399.4
81.0	46.8	398.2
82.0	46.8	397.2
83.0	46.7	396.9
84.0	46.7	396.8
85.0	46.8	397.4
86.0	46.8	398.0
87.0	46.9	399.0
88.0	46.9	399.6
89.0	46.8	398.7

Distance to Contour Calculations for the Proposed WACG-FM Facility

90.0	46.8	398.2
91.0	46.8	397.0
92.0	46.7	396.4
93.0	46.7	396.6
94.0	46.7	396.4
95.0	46.7	396.1
96.0	46.7	395.3
97.0	46.6	394.1
98.0	46.6	393.4
99.0	46.6	393.5
100.0	46.6	394.3
101.0	46.6	394.7
102.0	46.6	394.6
103.0	46.6	394.3
104.0	46.6	394.3
105.0	46.6	394.8
106.0	46.7	395.6
107.0	46.7	395.3
108.0	46.6	394.3
109.0	46.6	393.9
110.0	46.6	394.2
111.0	46.6	394.5
112.0	46.6	394.9
113.0	46.7	395.6
114.0	46.7	395.9
115.0	46.7	395.1
116.0	46.6	394.5
117.0	46.6	394.8
118.0	46.7	395.6
119.0	46.8	397.8
120.0	46.9	400.2
121.0	47.0	402.0
122.0	47.0	402.6
123.0	47.1	402.9
124.0	47.1	403.9
125.0	47.1	404.3
126.0	47.1	404.5
127.0	47.2	405.5
128.0	47.3	406.8
129.0	47.3	408.4
130.0	47.5	410.3
131.0	47.5	411.3
132.0	47.5	411.3
133.0	47.4	410.0
134.0	47.4	409.4
135.0	47.5	410.4
136.0	47.5	411.0
137.0	47.5	410.8
138.0	47.5	411.0
139.0	47.5	411.1
140.0	47.5	411.6
141.0	47.6	412.9
142.0	47.7	414.2
143.0	47.7	415.7
144.0	47.9	417.9
145.0	48.0	420.7
146.0	48.2	423.7

Distance to Contour Calculations for the Proposed WACG-FM Facility

147.0	48.3	425.4
148.0	48.3	426.6
149.0	48.4	427.5
150.0	48.4	428.4
151.0	48.5	429.5
152.0	48.6	431.1
153.0	48.7	433.3
154.0	48.8	436.0
155.0	48.9	438.0
156.0	49.0	439.3
157.0	49.1	440.5
158.0	49.1	441.7
159.0	49.2	442.5
160.0	49.2	442.9
161.0	49.2	443.4
162.0	49.3	443.8
163.0	49.3	444.2
164.0	49.3	444.5
165.0	49.3	444.8
166.0	49.3	445.1
167.0	49.3	445.5
168.0	49.4	445.9
169.0	49.4	446.2
170.0	49.4	446.5
171.0	49.4	446.9
172.0	49.4	447.3
173.0	49.5	447.8
174.0	49.5	448.3
175.0	49.5	448.5
176.0	49.5	448.6
177.0	49.5	448.8
178.0	49.6	449.3
179.0	49.6	449.9
180.0	49.6	450.5
181.0	49.7	451.2
182.0	49.7	451.8
183.0	49.7	452.4
184.0	49.7	452.8
185.0	49.8	453.1
186.0	49.8	453.3
187.0	49.8	453.5
188.0	49.8	453.2
189.0	49.8	453.2
190.0	49.8	453.5
191.0	49.8	454.0
192.0	49.8	454.5
193.0	49.9	454.9
194.0	49.9	455.2
195.0	49.9	455.7
196.0	49.9	456.1
197.0	49.9	456.5
198.0	49.9	456.5
199.0	49.9	456.3
200.0	49.9	455.9
201.0	49.9	455.3
202.0	49.9	455.0
203.0	49.8	454.5

Distance to Contour Calculations for the Proposed WACG-FM Facility

204.0	49.8	454.5
205.0	49.8	454.7
206.0	49.8	454.6
207.0	49.8	453.8
208.0	49.8	453.1
209.0	49.7	451.5
210.0	49.6	451.0
211.0	49.6	450.6
212.0	49.6	450.8
213.0	49.7	451.5
214.0	49.7	451.2
215.0	49.6	450.9
216.0	49.6	450.8
217.0	49.7	451.5
218.0	49.7	452.4
219.0	49.8	453.3
220.0	49.8	453.5
221.0	49.9	455.0
222.0	49.9	456.4
223.0	50.0	456.8
224.0	50.0	456.7
225.0	49.9	456.5
226.0	49.9	456.4
227.0	50.0	457.2
228.0	50.0	458.2
229.0	50.1	458.5
230.0	50.0	457.9
231.0	50.0	457.5
232.0	50.0	457.1
233.0	50.0	456.6
234.0	49.9	456.0
235.0	49.9	455.6
236.0	49.9	455.5
237.0	49.9	455.3
238.0	49.9	455.3
239.0	49.9	454.9
240.0	49.8	454.6
241.0	49.8	454.4
242.0	49.8	454.0
243.0	49.8	453.7
244.0	49.8	453.4
245.0	49.8	453.3
246.0	49.8	453.2
247.0	49.8	452.9
248.0	49.7	452.7
249.0	49.7	452.3
250.0	49.7	451.9
251.0	49.7	451.8
252.0	49.7	451.5
253.0	49.7	451.3
254.0	49.6	450.7
255.0	49.6	449.7
256.0	49.5	448.8
257.0	49.5	448.3
258.0	49.5	448.4
259.0	49.6	449.9
260.0	49.7	451.7

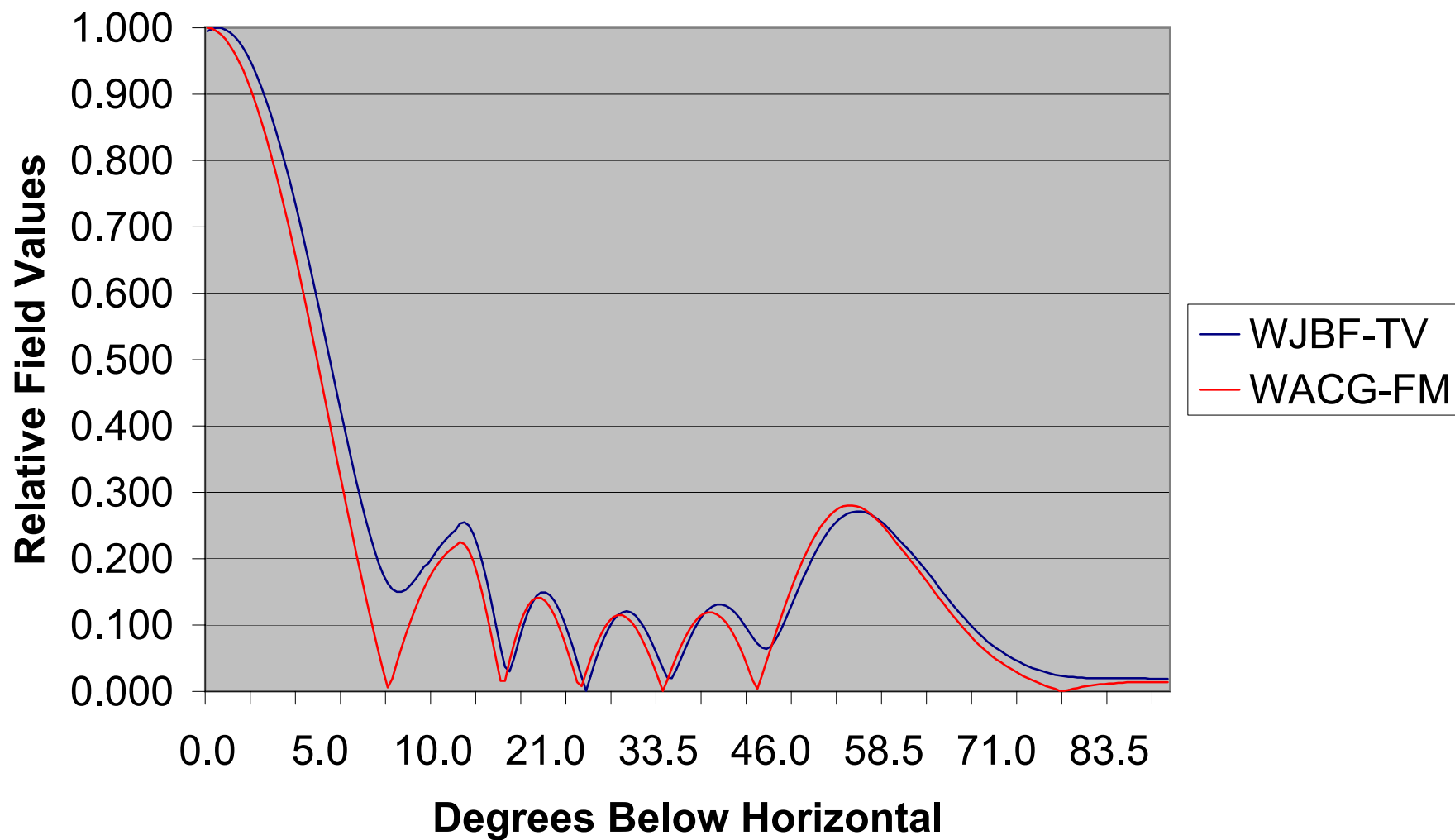
Distance to Contour Calculations for the Proposed WACG-FM Facility

261.0	49.8	453.8
262.0	49.9	455.2
263.0	49.9	455.7
264.0	49.9	455.6
265.0	49.9	455.5
266.0	49.9	455.3
267.0	49.9	455.0
268.0	49.8	454.7
269.0	49.8	454.5
270.0	49.8	454.3
271.0	49.8	454.0
272.0	49.8	453.8
273.0	49.8	453.5
274.0	49.8	453.3
275.0	49.8	453.1
276.0	49.7	452.9
277.0	49.7	452.7
278.0	49.7	452.4
279.0	49.7	452.1
280.0	49.7	451.8
281.0	49.7	451.4
282.0	49.6	450.8
283.0	49.6	450.2
284.0	49.6	449.7
285.0	49.6	449.3
286.0	49.5	449.0
287.0	49.5	448.7
288.0	49.5	448.2
289.0	49.5	447.7
290.0	49.4	447.2
291.0	49.4	446.7
292.0	49.4	446.1
293.0	49.3	445.5
294.0	49.3	444.9
295.0	49.3	444.4
296.0	49.3	444.1
297.0	49.3	443.8
298.0	49.3	443.9
299.0	49.3	443.9
300.0	49.3	444.0
301.0	49.3	444.2
302.0	49.3	444.3
303.0	49.3	444.3
304.0	49.3	444.1
305.0	49.2	443.5
306.0	49.2	442.6
307.0	49.1	441.2
308.0	49.0	438.9
309.0	48.8	436.0
310.0	48.6	432.5
311.0	48.4	428.3
312.0	48.2	424.9
313.0	48.0	421.0
314.0	47.8	416.5
315.0	47.6	413.2
316.0	47.6	412.9
317.0	47.7	414.9

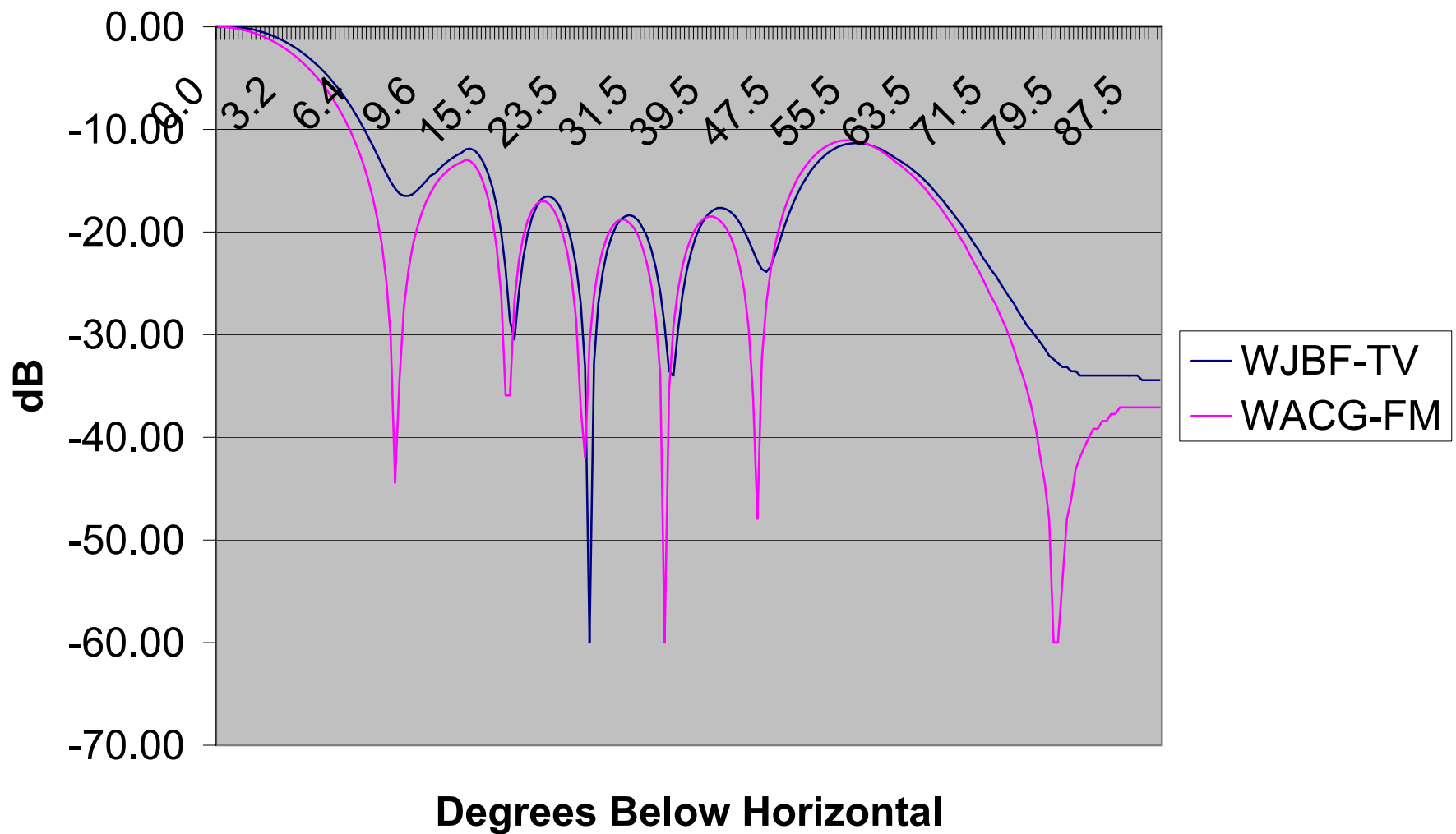
Distance to Contour Calculations for the Proposed WACG-FM Facility

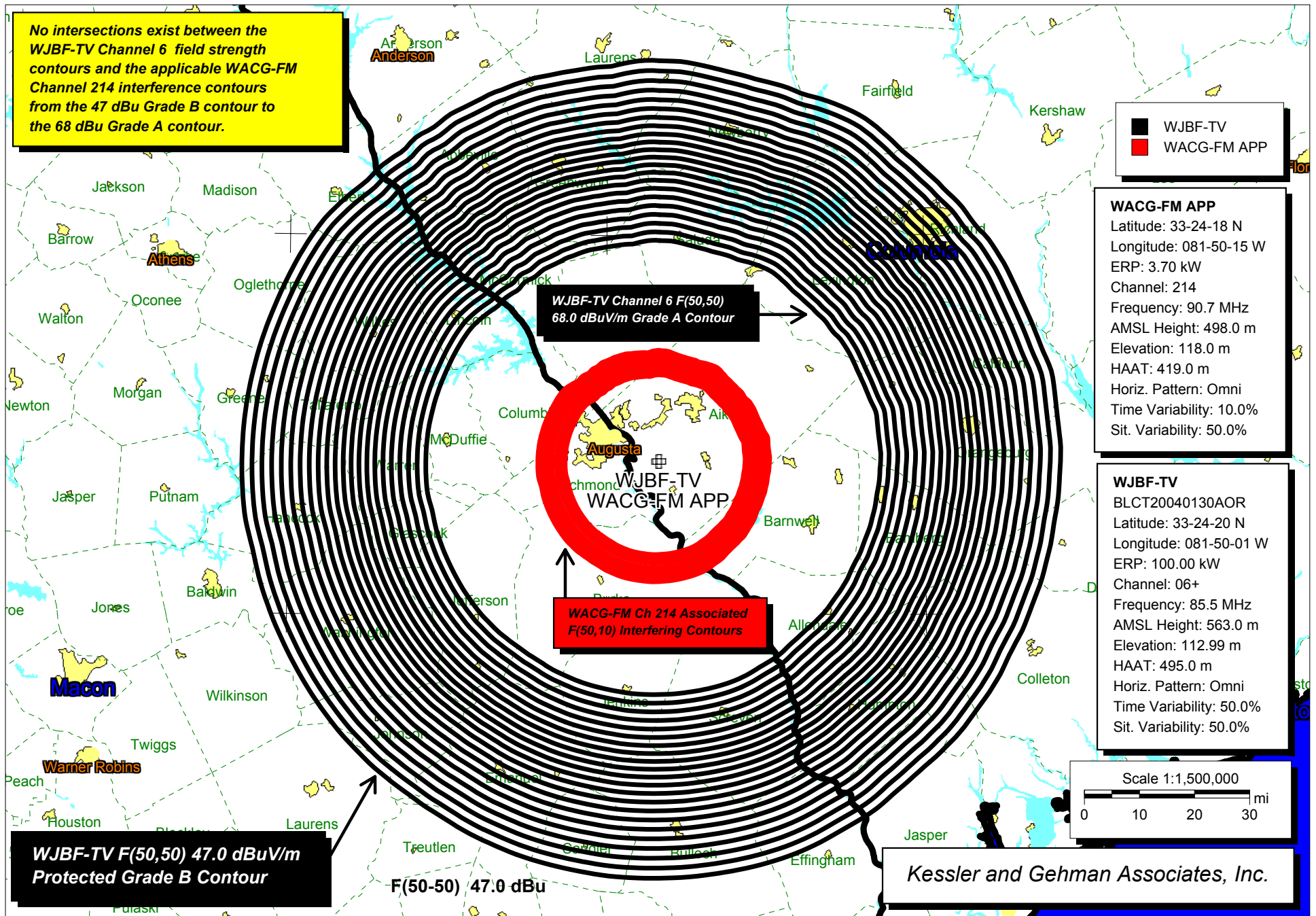
318.0	47.7	415.4
319.0	47.6	413.8
320.0	47.5	411.1
321.0	47.3	408.0
322.0	47.2	406.0
323.0	47.3	408.2
324.0	47.5	410.9
325.0	47.5	411.0
326.0	47.4	408.9
327.0	47.3	407.1
328.0	47.4	408.8
329.0	47.5	410.9
330.0	47.6	413.1
331.0	47.6	412.6
332.0	47.5	410.7
333.0	47.4	409.2
334.0	47.4	408.4
335.0	47.3	408.3
336.0	47.4	409.3
337.0	47.4	409.7
338.0	47.3	408.2
339.0	47.3	407.0
340.0	47.3	407.1
341.0	47.3	406.6
342.0	47.2	406.1
343.0	47.2	405.7
344.0	47.1	403.8
345.0	47.0	401.3
346.0	46.9	399.2
347.0	46.8	398.2
348.0	46.8	397.0
349.0	46.7	395.6
350.0	46.6	394.6
351.0	46.6	393.5
352.0	46.5	392.6
353.0	46.4	390.7
354.0	46.3	388.3
355.0	46.4	389.5
356.0	46.5	392.3
357.0	46.6	394.8
358.0	46.7	396.5
359.0	46.8	397.8

Old Batwing vs. New Batwing (Relative Field)

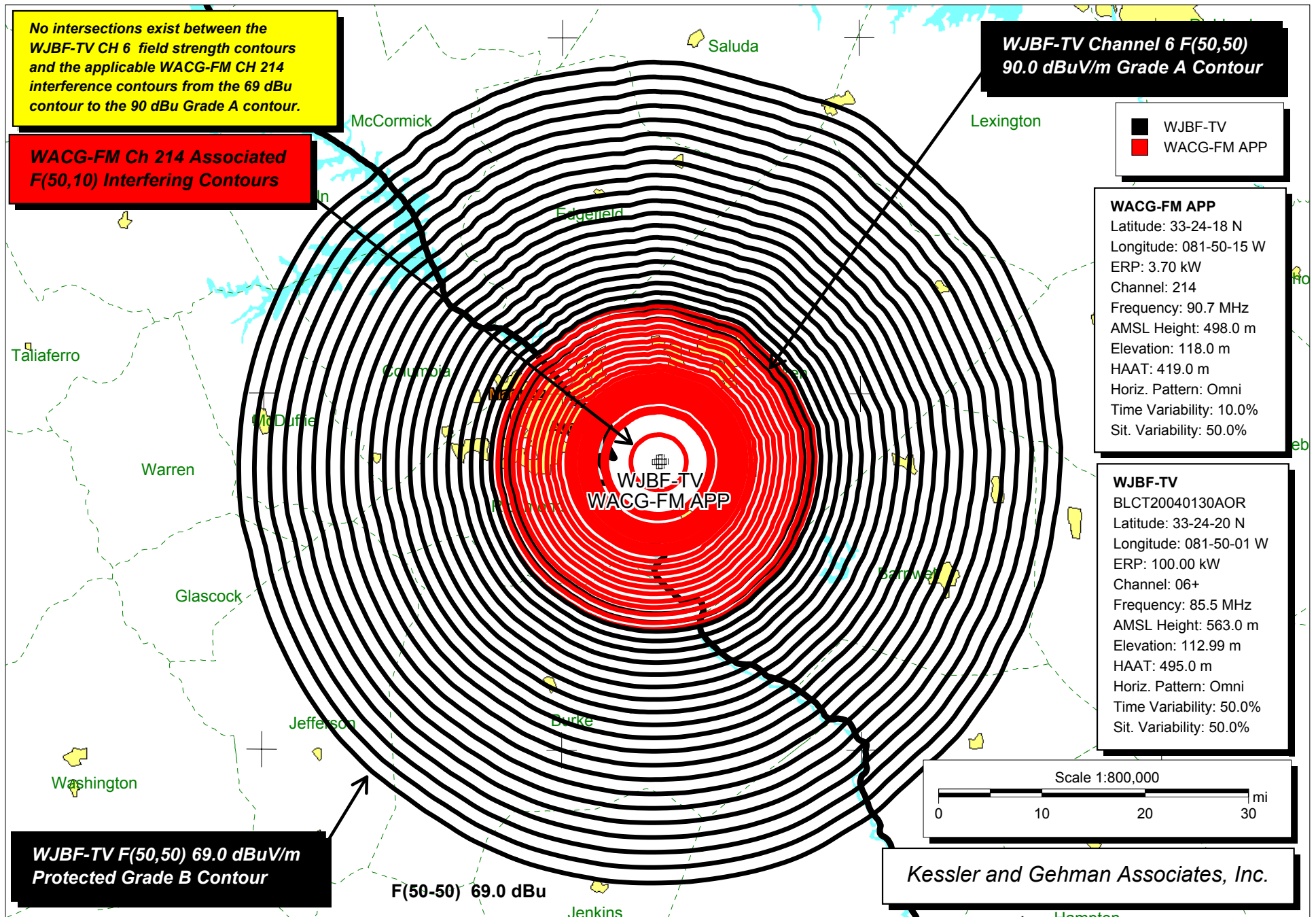


Old Batwing vs. New Batwing (dB)

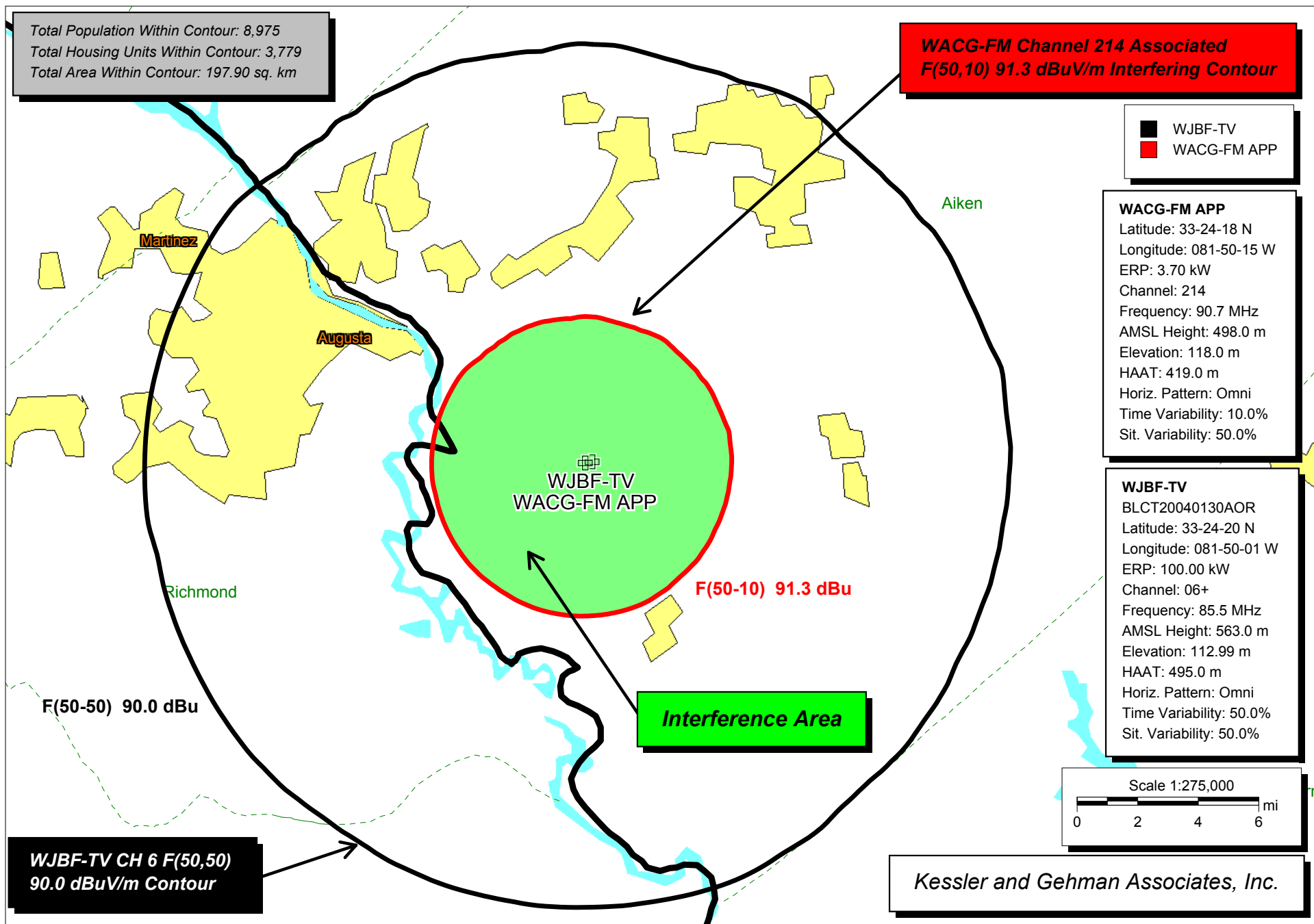




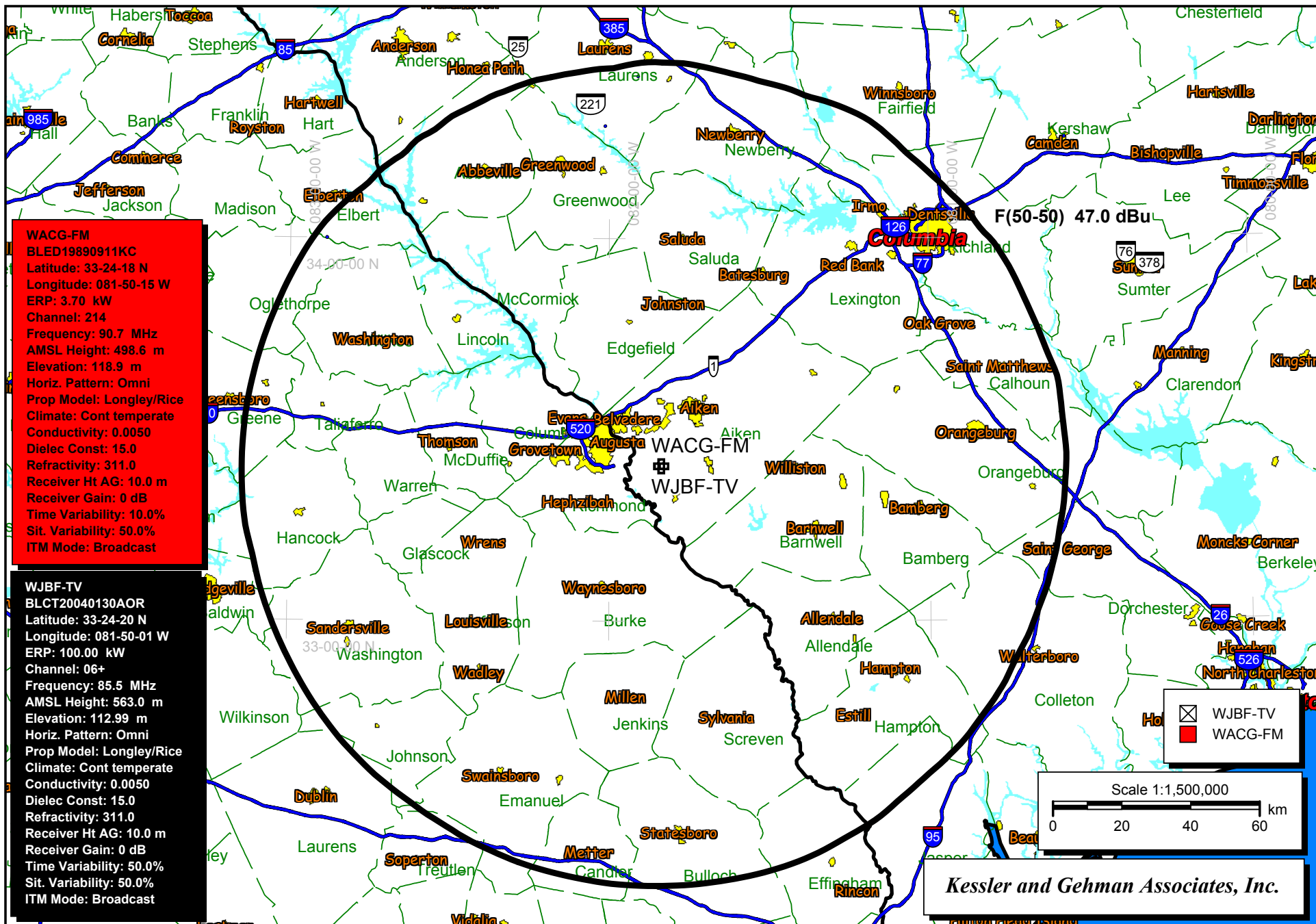
WJBF-TV CH 6 PROTECTED CONTOURS & WACG-FM CH 214 INTERFERING CONTOURS (from 47 dBu to 68 dBu)



WJBF-TV CH 6 PROTECTED CONTOURS & WACG-FM CH 214 INTERFERING CONTOURS (from 69 dBu to 90 dBu)



Interference Area Based on FCC Contours



Longley-Rice Interference Study from Proposed WACG-FM Facility to Licensed WJBF-TV Channel 6 Facility EXHIBIT 25

Inbound Interference From WACG-FM to WJBF-TV – Population report

D/U Ratio Study

Signal Resolution: 2.0 km

Study Date: 9-26-2005

Population Database: 2000 US Census (SF1,Housing)

Reference Station:

WJBF-TV (06+) Augusta, GA BLCT20040130AOR

100.0 kW - ND - 563 m AMSL

Settings:

Threshold for Reception: 47.0 dBu

Front-To-Back Ratio: 0.0 dB

Interfering:

Call Letters	City	State	Dist	Bear
WACG-FM (214)	Augusta	GA	0.4	260.3

D/U Ratio (dB)	Housing Units	Population	%
< 0.0	0	0	0.00
< -10.0	0	0	0.00
< -20.0	0	0	0.00

Coverage	471,671	1,118,866
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D/U Ratio (dB)	Area (sq. km)	%
< 0.0	0.0	0.00
< -10.0	0.0	0.00
< -20.0	0.0	0.00

Coverage	1.0559276178531
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"Coverage" indicates the area under study where the field strength is greater than 47.0 dBu.

Housing Units Population