

WSVH-FM CHANNEL 216
SPECIAL TEMPORARY AUTHORITY
SAVANNAH, GEORGIA
(Georgia Public Telecommunications Commission)

Kessler and Gehman Associates, Inc.

Consultants • Broadcast • Wireless
www.kesslerandgehman.com



ENGINEERING TECHNICAL STATEMENT PREPARED BY WILLIAM T. GODFREY, JR. WITH THE TELECOMMUNICATIONS CONSULTING ENGINEERING FIRM KESSLER AND GEHMAN ASSOCIATES, INC. (“KGA”) REQUESTING SPECIAL TEMPORARY AUTHORITY (“STA”) TO TEMPORARILY OPERATE THE WSVH-FM FACILITY (BLED-20080909AB) AT AN ALTERNATE SITE WITH A REDUCED EFFECTIVE RADIATED POWER.

The firm Kessler and Gehman Associates, Inc. (“KGA”) has been retained by Georgia Public Telecommunications Commission (“GPTC”) to prepare engineering studies and the engineering portion of an application requesting Special Temporary Authority (“STA”) to operate at an alternate site with reduced power. WSVH-FM has been having significant coverage issues with respect to serving its community of license; therefore, GPTC retained KGA to perform field strength measurements and it was determined that the problem is likely with the antenna. GPTC quickly located an available nearby site where it can temporarily operate the WSVH-FM facility until the antenna can be repaired by the manufacturer. Accordingly, GPTC respectfully requests to operate at the proposed parameters under the authorization of an STA.

Enclosed Exhibits

Exhibit 1 represents the proposed WSVH-FM facility’s administration data as well as the proposed temporary antenna and antenna structure specifications.

Exhibit 2 depicts the profile view of the WSVH-FM temporary antenna on an existing antenna structure with all the appropriate elevations.

Exhibit 3 is a contour map demonstrating that the proposed temporary STA facility’s F(50,50) 60.0 dBuV/m contour (green) is completely encompassed by the licensed WSVH-FM facility’s F(50,50) 60.0 dBuV/m contour (red).

Environmental Impact

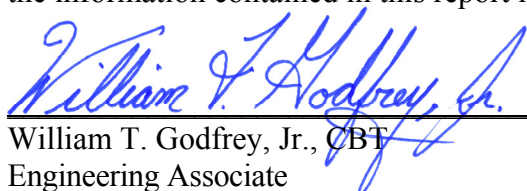
The proposed temporary facility will have no significant environmental impact as defined in 1.1307 of the FCC rules. The FM transmitter, transmission line and antenna system will produce a

maximum ERP of 0.029 kW (circular polarization). Assuming the maximum lobe of radiation were oriented toward the base of the tower, the proposed facility's power density six feet above the ground would be 0.0001 mw/cm². That would only be 0.01% of the Maximum Permissible Exposure (MPE) limits for occupational/controlled exposure and only 0.05% of the MPE limits for general population/uncontrolled exposure authorized by the American National Standards Institute (ANSI). The proposed facility will not be considered a significant contributor to the RF exposure environment pursuant to OET bulletin 65, edition 97-01 since the operation of the proposed 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. Therefore, contributions of exposure from other sources were not accounted for and not required in this analysis. It is safe to conclude that the emissions will be insignificant and well within the maximum allowable requirements.

If other antennas are placed on the tower in the future, GPTC will cooperate with those users by reducing or completely terminating the power to the antenna when maintenance workers are in danger from the electromagnetic radiation emanating from the antenna. It is also understood that additional antennas on the support structure could increase the overall RF exposure levels and it is the responsibility of each licensee to ensure that the total RF exposure resulting from the operation of all antennas on the support structure do not exceed the maximum permissible exposure level at any point on the ground.

Certification

This technical statement was prepared by William T. Godfrey, Jr., Engineering Associate with the firm Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida, and has been working with the firm in the field of radio and television broadcast consulting since 1998. Mr. Godfrey was a graduate from the University of North Florida and a Distinguished Military Graduate from the University of Florida. 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.

A blue ink signature of William T. Godfrey, Jr. is written over a horizontal line. Below the line, the text 'William T. Godfrey, Jr., CBT' and 'Engineering Associate' is printed.

William T. Godfrey, Jr., CBT
Engineering Associate

5 March, 2015

WSVH-FM Channel 216 C (STA)
Savannah, Georgia

ENGINEERING SPECIFICATIONS

A. Transmitter Site:

Geographic coordinates (NAD27):

North Latitude **32° 03' 25.9"**

West Longitude **81° 08' 47.3"**

Transmitter Site Address: **5 Patton Road**
 Savannah, GA 31405

FCC Antenna Structure Registration Number: **1018332**

FAA Study Number: **00-ASO-8141-OE**

B. Main Studio Site Address: **260 14th Street N.W.
 Atlanta, GA 30318**

C. Proposed Facility:

FM Channel	Number	216
	Frequency	91.1 MHz
	Class	C

D. Antenna Heights:

Height of Site Above Mean Sea Level (AMSL):..... **3.0 M**

Overall Height of Structure Above Ground:..... **152.4 M**
(including all appurtenances)

Overall Height of Structure Above Mean Sea Level:..... **155.4 M**
(including all appurtenances)

Height of Site Above Average Terrain:..... **-0.7 M**

Antenna Height Radiation Center (R/C) Above Ground:..... **146.3 M**

Antenna Height R/C Above Mean Sea Level:..... **149.3 M**

Average of All Non-Odd Radials:..... **3.7 M**

Antenna Height R/C Above Average Terrain:..... **145.6 M**

E. System Parameters – Circular Polarization:

Transmitter Power Required:..... **0.14 kW**

Maximum Power Input to Antenna:..... **0.06 kW**

Transmission Line Loss:..... **3.86 dB**

Transmission Line Efficiency:..... **41.1%**

Maximum Antenna Gain in Beam Maximum:..... **-3.0 dB**

Maximum Antenna Gain in Horizontal Plane:..... **-3.0 dB**

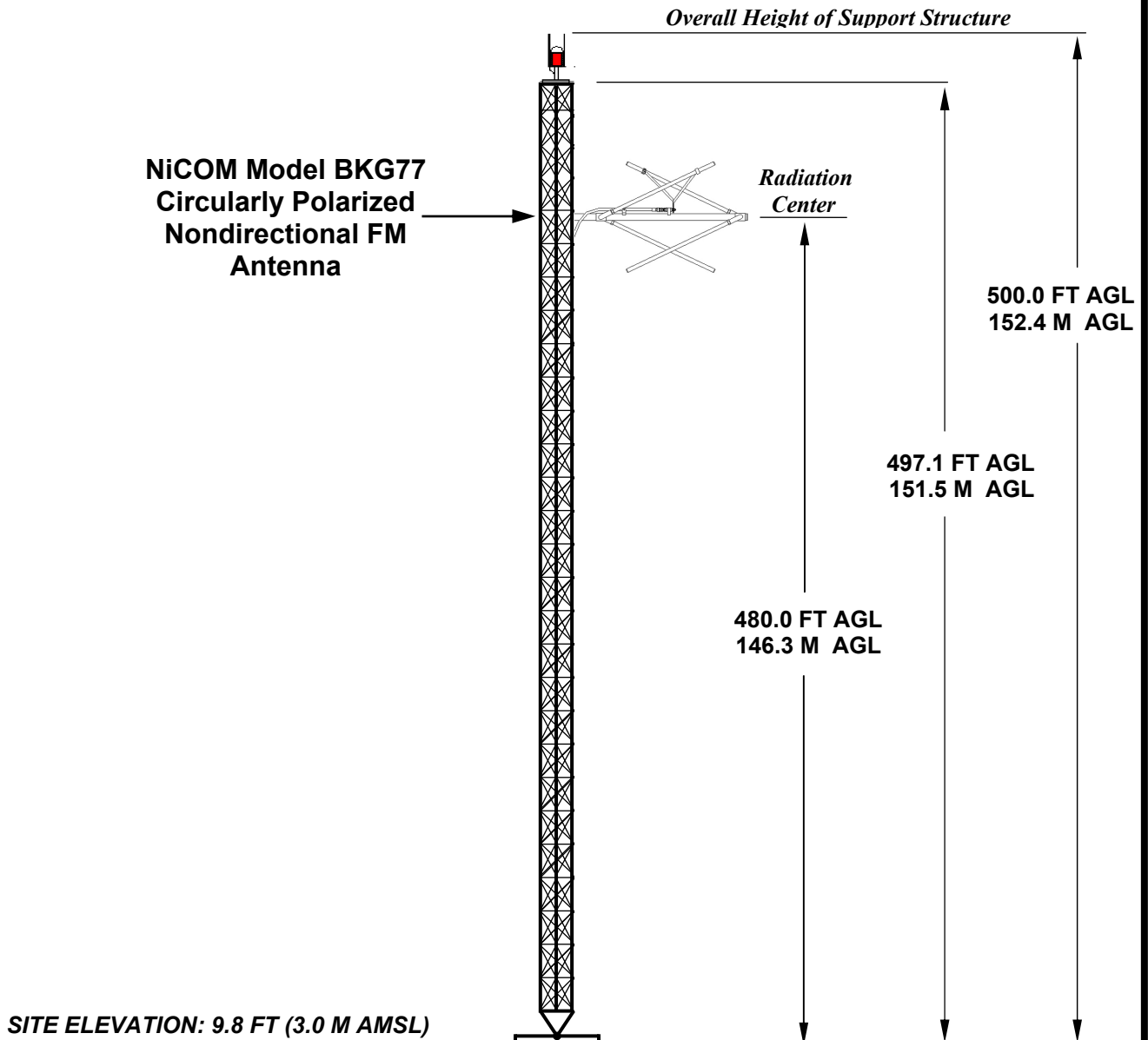
Maximum Effective Radiated Power:..... **-15.40 dBk**

 In Beam Maximum:..... **0.029 kW**

Maximum Effective Radiated Power:..... **-15.40 dBk**

 In Horizontal Plane:..... **0.029 kW**

ANTENNA STRUCTURE ELEVATION VIEW



OVERALL HEIGHT AGL: 152.4 M
OVERALL HEIGHT AMSL: 155.4 M
RADIATION CENTER AGL: 146.3 M
RADIATION CENTER AMSL: 149.3 M
RADIATION CENTER HAAT: 145.6 M
AVERAGE OF NON-ODD RADIALS: 3.7 M
SITE ELEVATION HAAT: -0.7 M

COORDINATES: (NAD 27)

N. LATITUDE 32° 03' 25.9"

W. LONGITUDE 81° 08' 47.3"

Antenna Structure Registration Number:
1018332

NOTE: NOT TO SCALE

Kessler and Gehman Associates, Inc.



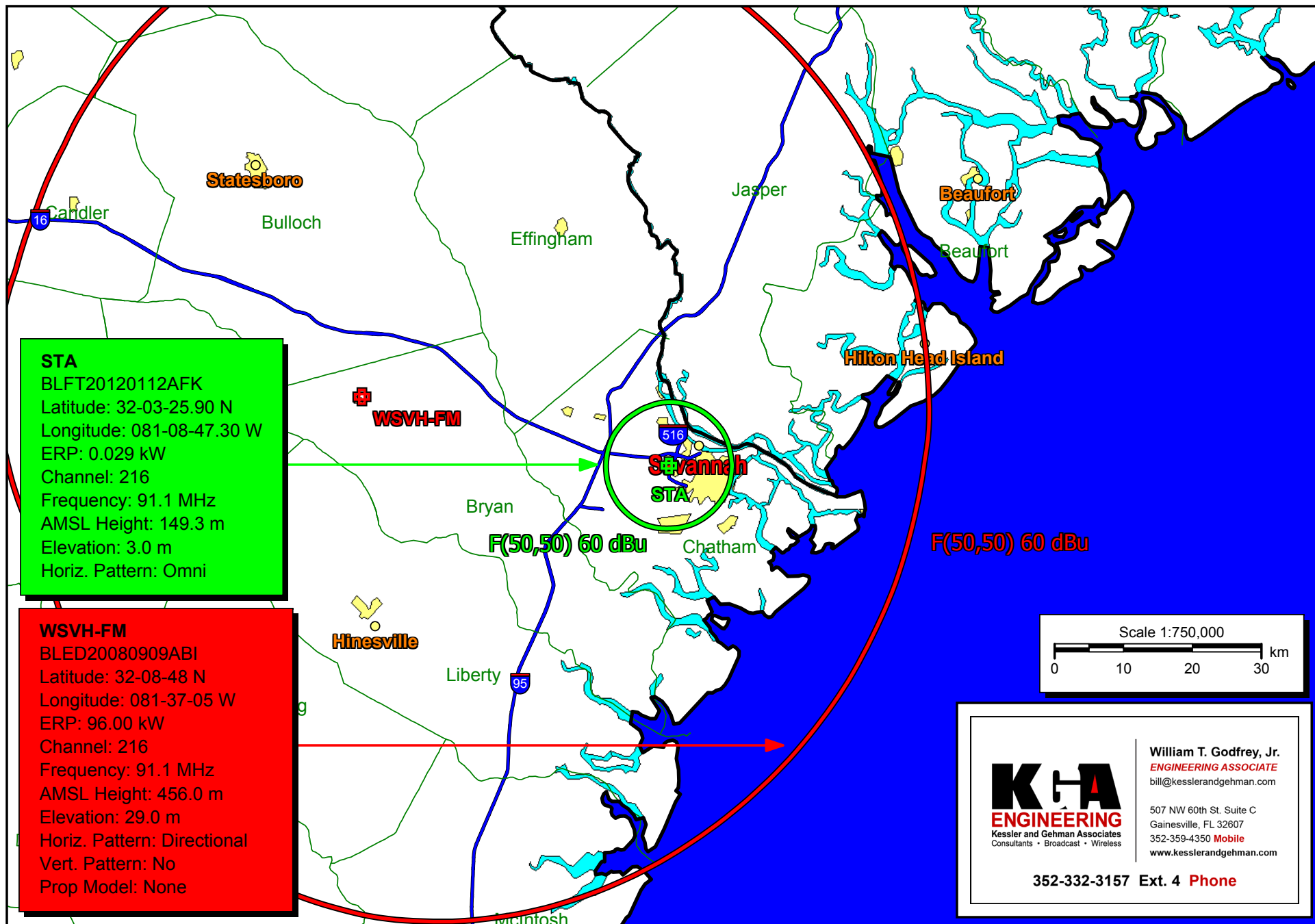
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20150305

EXHIBIT 2



WSVH-FM F(50,50) 60 dBu vs. Proposed STA F(50,50) 60 dBu