

Flint Media

FM Radio Station WBGE - Bainbridge, GA.

Compliance with C.F.R. Section 73.315

Using an Alternate method To calculate Contours.

From the proposed site, the 230 thru 240 degree radials are on a direct line to the city of Bainbridge, Georgia. These are the only radials that will be included in this study.

WBGE PROPOSED - f50:50 VS. LONGLEY-RICE METHODOLOGY

TABULATION:

Call Letters: WBGE
Latitude: 31-00-33 N
Longitude: 084-25-16 W
ERP: 6.00 kW
Channel: 270
Frequency: 101.9 MHz
AMSL Height: 148.0 m
Elevation: 41.0 m
Horiz. Antenna Pattern: Omni

Type of contour: Longley-Rice vs. f50:50
of Radials Calculated: 360
Using the mean occurrence method at 70.0 dBu

Bearing (deg)	L/R Distance(km)	f50:50 Distance(km)	Delta H
230.0	25.4	17.7	17.8
231.0	28.9	17.7	18.5
232.0	29.2	17.7	17.3
233.0	34.5	17.7	16.5
234.0	34.2	17.7	16.9
235.0	34.1	17.7	18.1
236.0	33.7	17.7	18.2
237.0	33.2	17.7	19.0
238.0	31.0	17.6	17.2
239.0	30.5	17.5	17.0
240.0	30.5	17.7	17.1

As shown above, the terrain roughness from the proposed site does vary. As outlined by the Commissions staff, delta H values for each radial must depart from a reference value of 50 meters. A standard of less than 20 or more than 100 was established. As shown above, the delta H values for each radial considered is below 20 and therefore complies with this requirement. The average delta h value is 17.6.

The study information is as follows.

Coverage Study

Signal Resolution: 1.25 km

Area of calculation: Circle: R = 100 km

Primary Terrain: V-Soft 30 Second US Database

Secondary Terrain: V-Soft 3 Second US Terrain

Call Sign	Area Of Calculation
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WBGE

Circle: R = 100 km

Transmitters:

Transmitter Information:

Call Letters: WBGE

Latitude: 31-00-33 N

Longitude: 084-25-16 W

ERP: 6.00 kW

Channel: 270

Frequency: 101.9 MHz

AMSL Height: 147.69 m

Elevation: 41.0 m

Horiz. Antenna Pattern: Omni

Propagation Model: Longley/Rice

Climate: Continental temperate

Conductivity: 0.0050

Dielectric Constant: 15.0

Refractivity: 311.0

Receiver Height AG: 9.1 m

Receiver Gain: 0 dB

Time Variability: 50.0%

Situation Variability: 50.0%

ITM Mode: Broadcast

EME Communications - Moultrie, GA.

WBGE

Latitude: 31-00-33 N
Longitude: 084-25-16 W
ERP: 6.00 kW
Channel: 270
Frequency: 101.9 MHz
AMSL Height: 147.69 m
Elevation: 41.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: Longley/Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 311.0
Receiver Ht AG: 9.1 m
Receiver Gain: 0 dB
Time Variability: 50.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

