

Exhibit 1

Radio Training Network Inc.
P O Box 7217
Lakeland, FL 33807-7217

Low Power FM Preclusion Showing for Channel 251 Columbia, SC Market Orangeburg, SC Channel 251 Application

Radio Training Network, Inc is making a minor change to it's Auction 83 tech box proposal for file # BNPFT20030317IXT Fac ID 156964 for Orangeburg, SC. This change moves the transmitter site and changes the channel to 251. The site is outside of the LPFM grid for the Columbia, SC Market, but within 39km of this market grid. The Columbia, SC market is **not** spectrum limited and therefore does not require a Top-50 Transmitter Site Test.

Below is the Preclusion Showing for the proposed site on Channel 251. The proposed facility will have an ERP of 0.019 kwatts at 105 meters HAAT. This will produce a 60 dBu contour extending 7.0 km from the transmitter site.

Co- channel 251 requires a separation of 26 km, 1st Adjacent Channels Require 15 km and 2nd Adjacent Channels require 8 KM for this class of FM translator. As shown on the ComStudy map, the proposed site is greater than 26 km from the Columbia, SC LPFM Grid. Therefore this application does not preclude the use of any grid point in the Columbia, SC LPFM Grid.

**Audio Division**

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Antenna Height Above Average Terrain (HAAT) / Contour Calculations[FCC](#) > [MB](#) > [Audio Division](#) > [HAAT/Contour Calculations](#)[FCC site map](#)**Antenna Height Above Average Terrain Calculations -- Input**

Latitude **33 26 35.4 North**
Longitude **80 48 16.5 West** (NAD 27)

Height of antenna radiation center above mean sea level [RCAMSL] = **156.0** meters

Number of Evenly Spaced Radials = 8 0° is referenced to True North

Results:**Calculated HAAT= 104. meters**

(Antenna Height Above Average Terrain)
using the 30 second FCC/NGDC terrain data)

Antenna Radiation Center Heights Above Individual Radials:

0.0°	89.3 meters
45.0°	111.3 meters
90.0°	109.2 meters
135.0°	110.9 meters
180.0°	110.5 meters
225.0°	113.3 meters
270.0°	91.3 meters
315.0°	98.8 meters

[New Antenna Height Above Average Terrain \(HAAT\) calculation?](#)

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Latitude **33 26 35.4 North**
Longitude **80 48 16.5 West** (NAD 27)

Height of antenna radiation center above mean sea level [RCAMSL] = **156.0** meters

Number of Evenly Spaced Radials = 12 0° is referenced to True North

Results:**Calculated HAAT= 105. meters**

(Antenna Height Above Average Terrain)
using the 30 second FCC/NGDC terrain data)

Antenna Radiation Center Heights Above Individual Radials:

0.0°	89.3 meters
30.0°	106.8 meters
60.0°	112.4 meters
90.0°	109.2 meters
120.0°	112.3 meters
150.0°	111.1 meters
180.0°	110.5 meters
210.0°	112.9 meters
240.0°	108.0 meters
270.0°	91.3 meters
300.0°	102.5 meters
330.0°	91.4 meters

[New Antenna Height Above Average Terrain \(HAAT\) calculation?](#)

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FM and TV Propagations Curves Calculations

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[FCC site map](#)

Results -- FM and TV Propagation Curves Calculations

Results of Calculation

Distance to Contour = 6.998 km

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For input data from Pages 1 and 2:

ERP entered = 0.019 kW

HAAT entered = 105.00 meters

Field Strength entered = 60.000 dBu

Find the Distance to the Contour, Given a Field Strength

F(50,50) curves for service contours

FM and NTSC analog TV Channels 2 through 6

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Comments on this program may be referred to [Dale Bickel](#)

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LPFM Preclusion Study to Columbia, SC Market

