

**Engineering Statement
In Support of an
Amendment to a Pending Application
WFSF, Marion, South Carolina**

Channel 263C3

WFSF Longley-Rice Study Parameters

Software Author and Version:	SoftWright, Version 4.1.586
Transmitter Latitude:	34:23:26.0N
Transmitter Longitude:	79:35:25.0W
Transmitter Center of Radiation:	121.6 meters AMSL (81.1 meters AGL)
Frequency:	100.5 MHz
Power (ERP)	25.0 kW
Antenna:	Directional
12 radials (139° to 149°, from 0.1 km to 45.0 km in 0.1 km increments)	
Terrain resolution: 3-arc second NGDC database	
Receiver Antenna:	9.14 meters
Mode of Variability:	11 (Individual Mode)
Confidence:	50%
Reliability:	50%
Polarization:	Vertical
Relative Permittivity:	15
Conductivity:	0.005 (S/m)
Climate:	5 (Continental Temperate)
Sea Level Refractivity:	0
Surface Refractivity:	300.90
Effective earth curvature:	1.333