

## WBT-FM information demonstrating compliance Pursuant to § 73.1690 (c) (1) Modification of transmission systems:

WBT-FM Replaced its licensed **omnidirectional** antenna with one of the same number of antenna bays installed at height of the antenna radiation center not more than 2 meters above or 4 meters below the authorized value.

Transmitter Power Output determination:

WBT-FM 99.3 MHz Chester, SC Facility ID 10764				
Antenna system gain	1.928	dB	1.559	Power gain
Transmission line loss	-1.032	dB	-0.789	Power efficiency
Additional loss	-0.3	dB	-0.933	Power efficiency
Sum of gain and loss	0.596	dB	1.147	Power efficiency
Transmitter power output	8.2689	dBk	6.7125	kW
Calculated effective radiated power	8.8649	dBk	7.699	kW
Licensed effective radiated power	8.8649	dBk	7.7	kW

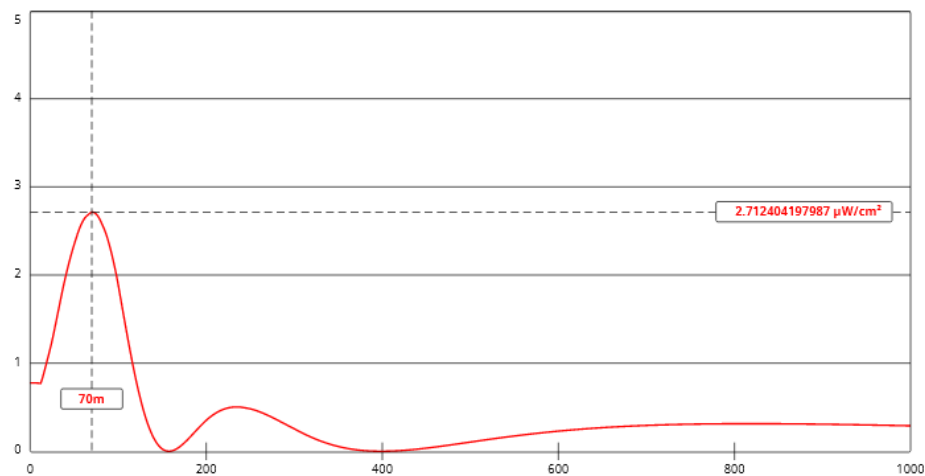
Replacement antenna complies with the Commission's radio frequency radiation guidelines:

## FM Model

- Radio Frequency Safety
- FCC Policy on Human Exposure
- RF Safety FAQ
- Body Tissue Dielectric Parameters
- RF Safety Highlighted Releases
- FM Model**

The FM Model calculator determines the potential exposure from radiofrequency (RF) electromagnetic fields produced by FM broadcast station antennas at ground level. The FM Model software was originally developed by the FCC in 1997 as a standalone executable program and this improved version provides more precise predictions and runs via a JavaScript enabled web browser. The FM Model is originally based on measured data published in 1985 by the EPA.

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Channel Selection	Channel 257 (99.3 MHz) ▼		
Antenna Type +	EPA Type 3: Opposed U Dipole ▼		
Height (m)	143	Distance (m)	1000
ERP-H (W)	7700	ERP-V (W)	7700
Num of Elements	3	Element Spacing (λ)	1
Num of Points	500	<a href="#">Apply</a>	

Nearest AM station antenna is WGCD (AM) Chester, SC, at a distance of 12 Kilometers from WBT-FM site.