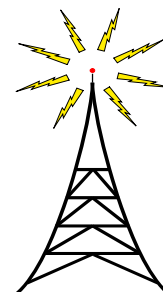




D Squared Broadcast Technologies, Inc.
P.O. Box 48
Madison, GA 30650



**W259CN
RF SYSTEM
February 19, 2016**

Transmitter:

Station Frequency: 99.7 MHz
Transmitter Power Output (TPO): .385 kW

Antenna:

Type of Antenna	2 Bay - End Fed - Full Wave
Effective Radiated Power (ERP)	0.25 kW
Length of Antenna	9.9 ft (3m)
Elevation of Top Bay Center (AGL)	152.6 ft (46.5m)
Elevation of Bottom Bay Center (AGL)	142.8 ft (43.5m)
Center of radiation (AGL)	147.7 ft (45.0m)
Antenna Power Gain (H & V)	0.994
Antenna Field Gain (H & V)997
Antenna Input Power	0.25 kW
Field Intensity (1kW @ 12 mile)	137.187 mV/m
1st Null (no beam tilt)	30 Degrees 0.048 Miles
2nd Null (no beam tilt)	90 Degrees 0 Miles

Transmission Line:

Type of Line	Andrew LDF5-50A, 7/8" Foam Heliax
Average Power Rating	8.08 kW
Total Length of Line	288 ft (87.7 m)
Length of Line on Tower	143 feet
Distance to Transmitter	145 feet
Line Loss at 99.7 MHz.....	00.3624545 db/100 feet
Other Losses8 db
Power Loss in Line	0.133 kW
Line Efficiency	65.4 %