

Transmitter Output Power Calculation

Date 2019-09-24

File No. 0 **Facility ID** 0

97.1 MHz **Channel** 246

ERP 0.250 kW

Spacing: Half Wave

Antenna Power Gain 0.500 -3.010 dB

Antenna Input Power 0.500 kW For 0.250 kW ERP

Transmission Line Losses

Manufacturer RFS LCF50 Series

Type 7/8 inch Foam Dielectric

Loss per 100 feet -0.343 dB At: 97.1 MHz

Transmission Line Length 310 ft

Transmission Line Loss -1.065 dB

Efficiency 78.3%

Additional System Losses

Filter 0 dB

Isolator 0 dB

Misc 0 dB

Total Losses -1.065 dB

System Efficiency 78.26%

Transmitter Output 0.639 kW For 0.250 kW ERP

