

Transmitter Output Power Calculation

Date April 17, 2016

File No. 0

Facility ID 0

W249CC

Toccoa GA

93.1 MHz

Channel 226

ERP 0.250

kW

Antenna Shively

Model 6812B-2

Bays: 2

Spacing: Full Wave

Antenna Power Gain 0.99 -0.044 dB

Antenna Input Power 0.253 kW For 0.250 kW ERP

Transmission Line Losses

Manufacturer

RFS

LCF50

Series

Type

7/8 inch

Foam Dielectric

Loss per 100 feet

-0.336 dB

At:

93.1

MHz

Transmission Line Length

155 ft

Transmission Line Loss

-0.521 dB

Efficiency

88.7%

Additional System Losses

Filter

0 dB

Isolator

0 dB

Misc

-0.02 dB

Total Losses

-0.541 dB

System Efficiency

88.3%

Transmitter Output

0.286 kW

For

0.250

kW ERP