Transmitter Power Output Calculation
Translator W225BN
Channel 225D – 92.9 MHz
0.250 kW ERP – 182 m COR AMSL
Corinth, Mississippi
September 2015

Given:

Effective Radiated Power: 0.250 kW
Antenna Gain (Multiplier): 0.9
Transmission Line Efficiency: 79%
Isocoupler Efficiency: 95.5% (0.2 dB)

Calculation:

0.250 kW Effective Radiated Power ÷ 0.9 Antenna Gain = 0.278 kW Antenna Input Power

0.278 kW Antenna Input Power ÷ 0.79 Transmission Line Efficiency ÷ 0.955 Isocoupler Efficiency = 0.368 kW Transmitter Power Output*

* 0.368 kW Transmitter Power Output rounds to 0.370 kW per §73.212(a).

Bromo Communications, Inc.