

**Transmitter Power Output Calculation**  
**WLBC-FM Auxiliary Antenna**

Channel 281B – 104.1 MHz  
6.8 kW ERP – 341.1 m COR AMSL  
Muncie, Indiana  
September 2022

Given:

Effective Radiated Power: 6.8 kW  
Antenna Gain (Multiplier): 0.461  
Transmission Line Efficiency: 91.78%

Calculation:

6.8 kW Effective Radiated Power  $\div$  0.461 Antenna Gain = 14.75 kW Antenna Input Power

14.75 kW Antenna Input Power  $\div$  0.9178 Transmission Line Efficiency = 16.07 kW  
Transmitter Power Output\*

\* 16.07 kW rounds to 16.0 kW per §73.212(a)