



## Transmitter Power Calculation

Call / Facility: WRRS-LP / 133782  
Frequency: 104.3 MHz (Channel 282)  
Effective Radiated Power: 100 watts (-10.0dBk)  
Antenna Model: Bext TFC2K-2-HW (2 Bays, Half Wave Spaced)  
Antenna Gain: -0.70  
Antenna Input Power: 143w (-8.45 dBk)

Line Type: LMR 400  
Line Length: 125 feet (38.1 meters)  
Line Efficiency/Loss: 69.2% / 1.6db

Connector type: "N"  
Connector Count/Loss: 2 / 0.15db  
Total Connector Loss: 0.3db

Calculated Required TPO: 220 watts (-6.58 dBk)

I hereby certify the above statements are accurate to the best of my ability.

Sincerely

A handwritten signature in black ink, appearing to read "Michael P. Fitzpatrick Jr.", written over a horizontal line.

Michael P. Fitzpatrick Jr.  
Consulting Broadcast Engineer