



Transmitter Power Calculation

Call / Facility: WTBR-FM / 52749
Frequency: 89.7 MHz (Channel 209)
Effective Radiated Power: 350 watts circular (-4.56dBk)
Antenna Gain: -0.71 (-1.51dB)
Antenna Make/Model: Shively 6812B-2D-SS(0.5)
Antenna Input Power: 500w (-3.05dBk)

Line Type: LDF 4-50A (1/2" Helix Generic)
Line Length: 145 feet (44 meters)
Line Efficiency/Loss: 81.8% / 0.94db

Total Connector Loss: 0.14db

Calculated Required TPO: 640 watts (-1.97dBk)

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 thin horizontal line.

Michael P. Fitzpatrick Jr.
Consulting Broadcast Engineer