



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" Heliax 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 horizontal line.

Michael P. Fitzpatrick Jr.
Consulting Broadcast Engineer