



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