

WUPS Transmitter Output Calculations:

Effective Radiated Power	100 kW
Antenna Gain	.689
Antenna Input Power	14.54 kW
Transmission Line Type	3" Air Andrew #HJ8-50B
Transmission Line Efficiency	67.27 (.46 dB / 100m)
Total Line Length	267 m
Additional Attenuation (Three jumpers and a coaxial switch)	.5dB
Total Loss in transmission line	7.1 kW
Transmitter Output Power	21.6 kW