

Transmitter Power Output Calculation / Antenna System Gains and Losses

Transmitter Power Output	15,445 Watts
Line Loss Transmitter Room	
30 Feet of 3 1/8" Rigid Transmission Line	0.03 dB
Dielectric Series 6000 Switch	0.1 dB
Line Loss Transmitter Building to Isocoupler	
504 feet of Andrew HJ11	0.59976 dB
Isocoupler Loss	0.025 dB
Line Loss Isocoupler to Antenna	
726 feet of Commscope HJ8-50B	1.07448 dB
ERI SHP-4AC-DA-HW Antenna Gain	3.164 dB
Effective Radiated Power (ERP)	21 kW