

Engineering Report  
Exhibit 12  
Transmitter Power Calculation  
W295CK, Medford, NY  
August 2017

Effective Radiated Power	250 Watts
Antenna Gain	3.98 X
Antenna Input Power	62.81 Watts
Transmission Line	96 m AVA6-50
Efficiency	.716 db - 84.8%
Power at Input	74.06 Watts
	15 ft LMR-400
Efficiency	95.8%
Power at Input	77.3 Watts
Transmitter Power Input Required For Rated ERP	77.3 Watts