



402 Tenth Avenue • PO Box 367 • Haddon Heights, NJ 08035

Engineering Report

Exhibit 12

Transmitter Power Calculation

W248CG, Jersey City, NJ

October 2015

Effective Radiated Power	110 Watts
Antenna Gain	1.93 X
Antenna Input Power	57.0 Watts
Transmission Line	85 ft LMR-600
Efficiency	86%
Power at Input	66.3 Watts
	15 ft LMR-400
Efficiency	95.8%
Power at Input	69.18 Watts
Transmitter Power Input Required For Rated ERP	69.2 Watts