

GPS Power Control Re-radiating Worksheet

L1 (1575.42 MHz)	
Site Information	
Antenna ID	A1
Location Description	Center of Hangar Area
Coordinates, NAD 83, ddd-mm-ss.s	36-05-30.51 N; 075-56-19.21 W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1A-PM-NF
Gain (dBi) @ L1 & L2 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source Passive L1 Antenna
Antenna Height AGL (ft)	25
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	94.2
Free Space Loss @ L1	71.82
Amplifier - Gain Control	
Make and Model	GPS Source METRO-A1-110/6.8-NF-NM
ERP Level Setting on Controller (includes antenna gain) in dBm	-71
Transmit Power at Terminal (pW)*	65.28
	79.43
Transmit Power from Antenna (pW ERP)**	
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.67

* = Programmed ERP Level - Antenna Gain + 2.148 converted to pW

** = Programmed ERP Level (includes Antenna Gain) converted to pW

*** = Programmed ERP Level (includes Antenna Gain) - Free Space Loss + 2.148