

GPS Power Control Re-radiating Worksheet	
Site Information	
Antenna ID	A1
Location Description	Hangar Bay Center
Coordinates, NAD 83, ddd-mm-ss.s	33-19-01.2N; 111-40-39.3W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1A-PM-N(f)
Gain (dBi)	38.0
Coax	
Type or Description	LMR-600
Attenuation @1575 MHz (dB/100 ft)	3.4
Length (ft)	240.0
Coax Loss* - Not to exceed 8 dB	8.2
Power to Controller (-105 to -50 dBm)	-100.2
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1P
Antenna Height AGL (ft)	29
Gain (dBi)	3.0
Distance to nearest outer wall (ft)	140.0
Free Space Loss	73.659
Amplifier - Gain Control	
Make and Model	GPS Source GPSRKXLV-P110/5-NF
ERP Level (Programmed in dBm ERP)	-72
EIRP Level	-69.352
Level Adjust** (Programmed in dBi)	-0.50
Calculated Signal Strength 100 ft	
Outside Building (dBm EIRP)***	-140.01

* Coax Loss calculated to ensure adequate power to the Power Controller
 ** Level Adjust attenuates output power by the value entered (1/4 dB steps)
 *** = ERP Level + Antenna Gain - Level Adjust - Free Space Loss + 2.148