

GPS Power Control Re-radiating Worksheet Antenna A1	
L1 (1575.42 MHz)	
Site Information	
Antenna ID	A1
Location Description	70 ft north of south wall on centerline of Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-47.0 N; 097-25-09.1 W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1 Active Antenna
Gain (dBi) @ L1 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1 Passive Antenna
Antenna Height AGL (ft)	25
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	70.0
Free Space Loss @ L1	70.66
Amplifier - Gain Control	
Make and Model	GPS Source GLI-Metro RK (L1, Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-72
Transmit Power at Terminal (pW)*	51.86
Transmit Power from Antenna (pW ERP)**	63.10
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.51
* = 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	

GPS Power Control Re-radiating Worksheet Antenna A2	
L1 (1575.42 MHz)	
Site Information	
Antenna ID	A2
Location Description	77 ft north of Antenna 1 on centerline of hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-47.7 N; 097-25-09.1 W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1 Active Antenna
Gain (dBi) @ L1 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1 Passive Antenna
Antenna Height AGL (ft)	25
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	70.0
Free Space Loss @ L1	70.66
Amplifier - Gain Control	
Make and Model	GPS Source GLI-Metro RK (L1, Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-72
Transmit Power at Terminal (pW)*	51.86
Transmit Power from Antenna (pW ERP)**	63.10
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.51
* = 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	