

GPS Power Control Re-radiating Worksheet Antenna A1	
	L1 (1575.42 MHz)
Site Information	
Antenna ID	A1
Location Description	West side of hangar, south of centerline
Coordinates, NAD 83, ddd-mm-ss.s	37-39-56.6 N; 97-25-12.4 W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1A Active Antenna
Gain (dBi) @ L1 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1P Passive Antenna
Antenna Height AGL (ft)	25
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	45.0
Free Space Loss @ L1	69.28
Amplifier - Gain Control	
Make and Model	GPS Source Metro-M-P110/6.8-NF (L1, Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-73
Transmit Power at Terminal (pW)*	41.19
	50.12
Transmit Power from Antenna (pW ERP)**	
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.13
* = 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	West side of hangar, north of centerline
Coordinates, NAD 83, ddd-mm-ss.s	37-39-57.5 N; 97-25-12.4 W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1A Active Antenna
Gain (dBi) @ L1 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1P Passive Antenna
Antenna Height AGL (ft)	25
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	45.0
Free Space Loss @ L1	69.28
Amplifier - Gain Control	
Make and Model	GPS Source Metro-M-P110/6.8-NF (L1, Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-73
Transmit Power at Terminal (pW)*	41.19
	50.12
Transmit Power from Antenna (pW ERP)**	
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.13
* = 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 A3	
	L1 (1575.42 MHz)
Site Information	
Antenna ID	A3
Location Description	Center of hangar, south of centerline
Coordinates, NAD 83, ddd-mm-ss.s	37-39-56.6 N; 97-25-11.9 W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1A Active Antenna
Gain (dBi) @ L1 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1P Passive Antenna
Antenna Height AGL (ft)	25
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	45.0
Free Space Loss @ L1	69.28
Amplifier - Gain Control	
Make and Model	GPS Source Metro-M-P110/6.8-NF (L1, Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-73
Transmit Power at Terminal (pW)*	41.19
	50.12
Transmit Power from Antenna (pW ERP)**	
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.13
* = 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 A4	
	L1 (1575.42 MHz)
Site Information	
Antenna ID	A4
Location Description	Center of hangar, north of centerline
Coordinates, NAD 83, ddd-mm-ss.s	37-39-57.5 N; 97-25-12.0 W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1A Active Antenna
Gain (dBi) @ L1 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1P Passive Antenna
Antenna Height AGL (ft)	25
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	45.0
Free Space Loss @ L1	69.28
Amplifier - Gain Control	
Make and Model	GPS Source Metro-M-P110/6.8-NF (L1, Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-73
Transmit Power at Terminal (pW)*	41.19
	50.12
Transmit Power from Antenna (pW ERP)**	
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.13
* = 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 A5	
	L1 (1575.42 MHz)
Site Information	
Antenna ID	A5
Location Description	East side of hangar, south of center line
Coordinates, NAD 83, ddd-mm-ss.s	37-39-56.6 N; 97-25-11.3 W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1A Active Antenna
Gain (dBi) @ L1 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1P Passive Antenna
Antenna Height AGL (ft)	25
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	45.0
Free Space Loss @ L1	69.28
Amplifier - Gain Control	
Make and Model	GPS Source Metro-M-P110/6.8-NF (L1, Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-73
Transmit Power at Terminal (pW)*	41.19
	50.12
Transmit Power from Antenna (pW ERP)**	
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.13
* = 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 A6	
	L1 (1575.42 MHz)
Site Information	
Antenna ID	A6
Location Description	East side of hangar, north of center line
Coordinates, NAD 83, ddd-mm-ss.s	37-39-57.5 N; 97-25-11.4 W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1A Active Antenna
Gain (dBi) @ L1 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1P Passive Antenna
Antenna Height AGL (ft)	25
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	45.0
Free Space Loss @ L1	69.28
Amplifier - Gain Control	
Make and Model	GPS Source Metro-M-P110/6.8-NF (L1, Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-73
Transmit Power at Terminal (pW)*	41.19
	50.12
Transmit Power from Antenna (pW ERP)**	
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.13
* = 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	