GPS Power Control Re-radiating Worksheet Antenna A1

	L1 (1575.42 MHz)
Site Information	
Antenna ID	A1
Location Description	Center of south end, South Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-24.6 N; 097-25-21.5 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)	125.0
Free Space Loss @ L1	73.10
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	-70
Transmit Power at Terminal (pW)*	82.19
Transmit Power from Antenna (pW ERP)**	100.00
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.95

* = 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	Center of west side, South Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-24.9 N; 097-25-22.4 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)	57.0
Free Space Loss @ L1	69.97
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	-73
Transmit Power at Terminal (pW)*	41.19
Transmit Power from Antenna (pW ERP)**	50.12
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.82

* = 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 South Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-24.9 N; 097-25-21.5 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)	125.0
Free Space Loss @ L1	73.10
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	-70
Transmit Power at Terminal (pW)*	82.19
Transmit Power from Antenna (pW ERP)**	100.00
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.95

* = 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 east side, South Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-24.9 N; 097-25-20.5 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)	57.0
Free Space Loss @ L1	69.97
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	-73
Transmit Power at Terminal (pW)*	41.19
Transmit Power from Antenna (pW ERP)**	50.12
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.82

* = 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	Center of north end, South Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-25.5 N; 097-25-21.5 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)	125.0
Free Space Loss @ L1	73.10
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	-70
Transmit Power at Terminal (pW)*	82.19
Transmit Power from Antenna (pW ERP)**	100.00
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.95

* = 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	Center of south end, North Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-26.9 N; 097-25-21.5 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)	125.0
Free Space Loss @ L1	73.10
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	-70
Transmit Power at Terminal (pW)*	82.19
Transmit Power from Antenna (pW ERP)**	100.00
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.95

* = 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 A7	
	L1 (1575.42 MHz)
Site Information	
Antenna ID	A7
Location Description	South end of east side, North Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-26.9 N; 097-25-20.5 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)	55.0
Free Space Loss @ L1	69.86
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	-73
Transmit Power at Terminal (pW)*	41.19
Transmit Power from Antenna (pW ERP)**	50.12
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.71

* = 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 A8

	L1 (1575.42 MHz)
Site Information	
Antenna ID	A8
Location Description	Center of west side, North Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-27.4 N; 097-25-22.4 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)	50.0
Free Space Loss @ L1	69.58
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	-73
Transmit Power at Terminal (pW)*	41.19
Transmit Power from Antenna (pW ERP)**	50.12
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.43

* = 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 A9	
	L1 (1575.42 MHz)
Site Information	
Antenna ID	A9
Location Description	Center of North Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-27.4 N; 097-25-21.5 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)	125.0
Free Space Loss @ L1	73.10
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	-70
Transmit Power at Terminal (pW)*	82.19
Transmit Power from Antenna (pW ERP)**	100.00
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.95

* = 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 A10

	L1 (1575.42 MHz)
Site Information	
Antenna ID	A10
Location Description	Center of east side, North Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-27.4 N; 097-25-20.5 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)	55.0
Free Space Loss @ L1	69.86
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	-73
Transmit Power at Terminal (pW)*	41.19
Transmit Power from Antenna (pW ERP)**	50.12
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.71

* = 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 A11

	L1 (1575.42 MHz)
Site Information	
Antenna ID	A11
Location Description	North end of west side, North Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-27.9 N; 097-25-22.4 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)	50.0
Free Space Loss @ L1	69.58
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	-73
Transmit Power at Terminal (pW)*	41.19
Transmit Power from Antenna (pW ERP)**	50.12
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.43

* = 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 A12

	L1 (1575.42 MHz)
Site Information	
Antenna ID	A12
Location Description	Center of north end, North Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-27.9 N; 097-25-21.5 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)	52.0
Free Space Loss @ L1	69.69
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	-73
Transmit Power at Terminal (pW)*	41.19
Transmit Power from Antenna (pW ERP)**	50.12
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.54

* = 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 A13	L1 (1575.42 MHz)
Site Information	
Antenna ID	A13
Location Description	North end of east side, North Hangar
Coordinates, NAD 83, ddd-mm-ss.s	37-38-27.9 N; 097-25-20.5 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)	52.0
Free Space Loss @ L1	69.69
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	-73
Transmit Power at Terminal (pW)*	41.19
Transmit Power from Antenna (pW ERP)**	50.12
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)*	-140.54

* = 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