GPS Power Control Re-radiating Worksheet Antenna A1		
	L1 (1575.42 MHz)	
Site Information	· · · · · · · · · · · · · · · · · · ·	
Antenna ID	A1	
Location Description	South Position, King Air Production Line	
Coordinates, NAD 83, ddd-mm-ss.s	37-41-16.1 N; 97-12-37.1 W	
Antenna - Receiving (RX)		
Make and Model	GPS Source L1A Active Antenna	
Gain (dBi) @ L1 (LNA included)	36	
Соах		
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)	80.0	
Free Space Loss @ L1	71.16	
Amplifier - Gain Control		
· ·	GPS Source Metro-M-P110/6.8-NF (L1,	
Make and Model	Oscillation Detect, Antenna Alarm Monitor)	
ERP Level Setting on Controller (includes	-71	
antenna gain) in dBm		
Transmit Power at Terminal (pW)*	65.28	
	79.43	
Transmit Power from Antenna (pW ERP)**		
Calculated Signal Strength 100 ft		
Outside Building (dBm EIRP)***	-140.01	
* = Programmed ERP Level - Antenna Gain + 2.148 converted to pW		
** = Programmed ERP Level (includes Antenna Gain) converted to pW		
	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	South Position, Piston Production Line	
Coordinates, NAD 83, ddd-mm-ss.s	37-41-16.1 N; 97-12-36.3 W	
Antenna - Receiving (RX)		
Make and Model	GPS Source L1A Active Antenna	
Gain (dBi) @ L1 (LNA included)	36	
Соах		
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)	145.0	
Free Space Loss @ L1	73.84	
Amplifier - Gain Control		
·	GPS Source Metro-M-P110/6.8-NF (L1,	
Make and Model	Oscillation Detect, Antenna Alarm Monitor)	
ERP Level Setting on Controller (includes	-71	
antenna gain) in dBm		
Transmit Power at Terminal (pW)*	65.28	
	79.43	
Transmit Power from Antenna (pW ERP)**		
Calculated Signal Strength 100 ft		
Outside Building (dBm EIRP)***	-142.69	
* = Programmed ERP Level - Antenna Ga	ain + 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	North Position, King Air Production Line	
Coordinates, NAD 83, ddd-mm-ss.s	37-41-17.0 N; 97-12-37.1 W	
Antenna - Receiving (RX)		
Make and Model	GPS Source L1A Active Antenna	
Gain (dBi) @ L1 (LNA included)	36	
Соах		
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)	75.0	
Free Space Loss @ L1	70.92	
Amplifier - Gain Control		
·	GPS Source Metro-M-P110/6.8-NF (L1,	
Make and Model	Oscillation Detect, Antenna Alarm Monitor)	
ERP Level Setting on Controller (includes	-72	
antenna gain) in dBm		
Transmit Power at Terminal (pW)*	51.86	
	63.10	
Transmit Power from Antenna (pW ERP)**		
Calculated Signal Strength 100 ft		
Outside Building (dBm EIRP)***	-140.77	
* = 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	North Position, Piston Production Line	
Coordinates, NAD 83, ddd-mm-ss.s	37-41-17.0 N; 97-12-36.3 W	
Antenna - Receiving (RX)		
Make and Model	GPS Source L1A Active Antenna	
Gain (dBi) @ L1 (LNA included)	36	
Соах		
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)	75.0	
Free Space Loss @ L1	70.92	
Amplifier - Gain Control		
· ·	GPS Source Metro-M-P110/6.8-NF (L1,	
Make and Model	Oscillation Detect, Antenna Alarm Monitor)	
ERP Level Setting on Controller (includes	-72	
antenna gain) in dBm		
Transmit Power at Terminal (pW)*	51.86	
	63.10	
Transmit Power from Antenna (pW ERP)**		
Calculated Signal Strength 100 ft		
Outside Building (dBm EIRP)***	-140.77	
* = 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		