

Federal Communications Commission

Via: faa.gov

Re: Narrative in support of Form 442 Application number: 0321-EX-PL-2015

Turbine Aircraft Services, LLC respectfully submits the attached Form 442 application for a new license for the installation of a GPS Networking GPS re-radiating kit. This transmitter will be utilized solely in support of our efforts to develop and test aircraft avionics that utilize GPS signals. The transmitter will be housed in a fully enclosed, metal hangar. Also attached are the technical specifications provided to us by the manufacturer. If you have any questions or concerns, please feel free to contact Bryson Pogson at any time. He can be reached by phone at (405) 491-8995 or by email at Bryson@tasokc.com. Thank you for your consideration of our request.



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Change the values in the yellow boxes to calculate required readings.
-140 or less at a range of 100 feet to meet NTIA regulations

Receive Ant Gain 38	Ant Cable Insertion Loss -3	Repeater Amp Gain 25	Repeater Ant Gain Best Case 3	Range in Feet 242	Repeated Signal Power @ Range In dBm -140.77
GPS Carrier Frequency MHz 1575					
Avg Receive Power L1 dBm North America -130					
Free Space loss with Isotropic Antennas -73.77					
Total System Gain 63				Range in Miles 0.05	Total Signal Power @ Range in Watts 8.4E-18
				Range in Meters 75.43	Radiated Power dBm -67
				Range in Kilometers 0.08	Transmitted Power (W) 100.0E-12
					Effective Radiated Power (W) 199.5E-12
					Effective Radiated Power (dBW) -97