

June 21, 2013

Federal Aviation Administration Office of Spectrum Policy and Management, ASR-1 800 Independence Ave, SW Washington DC, 20591

Subject: 700-00185-() Traffic Advisory System FCC Testing Authorization per 47 CFR 87.147

It is our intention to seek Authrorization to conduct FCC testing for an upgrade to our traffic advisory (TAS) systems, to be designated model TAS6XX-A. These systems are functionally compatible with our existing TAS6xx systems and are being introduced primarily to update the hardware and provide for enhanced functionality in the future.

- Antenna Characteristics: The TAS6XX-A is approved for use with twin and single blade L-Band directional antennas, conforming to TAS-C74c (P/N: S72-1750-31L and S72-1750-32L).
- Power Output: The power delivered to the antenna connector from the TAS6XX-A is around 40W. The Peak Radiated Power relative to a $\frac{1}{4}$ wave stub antenna = 20.73W.
- Transmission Characteristics: The TAS6XX-A meets the specification in DO-197A section 2.2.3.5

			Rise Time		Decay Time	
Pulse Designator	Pulse Duration	Duration Tolerance	Min.	Max.	Min.	Max.
P ₁ , P ₃	0.8	±0.05	0.05	0.1	0.05	0.2

The pulse spacing tolerances shall be as follows:

P₁ to P₃: 21 ±0.10 microseconds

 Operating Frequency: The TAS6XX-A receives aircraft replies on 1090 MHz, and transmits interrogations at 1030 MHz.

Pending the approval of this Test Authorization, please mail the determination to:

Office of Engineering and technology Laboratory Authorization and Evaluation Devision 7435 Oakland Mills Rd Columbia, MD 21046

Best regards,

Trevor Steffensen Systems Engineer 321-751-8422tsteffensen@aviydne.com