

Raysat STA Data

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Item 1 - Applicant's Name

Applicant's Name: Raysat Inc.

Item 2 - Mailing Address

Street Address: 8460-D Tyco Road
P.O. Box
City: Vienna
State: Virginia
Zip/Postal Code: 22182

Item 3 - Contact Information

Last Name: DiFonzo
First Name: Daniel
Title: Chief Technical Officer
Telephone Number: (703) 584-3770
Email Address: dan@raysat.com

Item 4 - STA Explanation

Raysat Inc has developed the SpeedRay 3000, a 2-way phased array antenna operating in the Ku FSS frequency band (Tx 14-14.5GHz and Rx 11.7 - 12.7GHz). The antenna has active control of the azimuth, elevation and polarization angles. The antenna has a low profile which allows it to be placed on commercial vehicles such as first responders, civil emergency vehicles. The full motion tracking system allows the consumer to have access to high speed internet or videos from DBS satellites on the go thus allowing consumers access to critical technologies anywhere in the country.

Item 5- Purpose of Operation

The purpose of this STA is to allow the SpeedRay 3000 antenna to be tested under actual operating conditions. This will involve the transmission to and reception of signals from the satellite. This will allow Raysat to determine parameters which will affect the system operation such as the level of interferences into our antenna from services on adjacent satellites, and from adjacent satellites onto our antenna. In addition the test will be used to refine the antenna tracking algorithms and to allow demonstrations to interested parties.

Item 6 - Callsign

Item 7 - Location of Proposed Operation

The antenna will be used through the CONUS area.

Item 8 - Equipment Operation

- Speedray 3000
- Contech 570L Satellite modem
- Block Up Converter (BUC) Invacom

Item 9 - Certification

Neither the applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. The applicant hereby waives any claim to the use of any particular frequency or electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.) The applicant acknowledges that all statements made in this application and attached exhibits are considered material representations, and that all the exhibits part hereof and are incorporated herein as if set out in full in this application; undersigned certifies that all statements in this application are true, complete and correct to the best of his/her knowledge and belief and are made in good faith. Applicant certifies that construction of the station would NOT be an action which is likely to have a significant environmental effect. See the Commission's Rules, 47 CFR 1.1301-1.1319.