

February 03, 2022

In re Application of

Red Six Aerospace, Inc.
3225 Donald Douglas Loop South
Santa Monica, CA, 90405

To operate in the 2200-2290MHz Telemetry Band between Santa Monica and Camarillo, California.

ATTN.: Microwave Branch

Red Six Aerospace, Inc., hereby requests Special Temporary Authority (STA) to operate within the 2200-2290MHz telemetry band pursuant to Section 21.25 of the Commission's Rules. Red Six Aerospace, Inc., requests that the Commission grant it temporary authority to operate on the frequency centered at 2280MHz with an 8MHz bandwidth from March 15, 2022 through March 14, 2023 with intermittent usage. If the 2280MHz frequency range is unavailable, any 8MHz channel within the bands 2200-2290MHz will suffice. As explained below, Red Six Aerospace, Inc., is filing an STA request to test and evaluate Silvus Technologies Inc., radios in a MANET / MESH networking scenario as it relates to flight telemetry while researching Augmented Reality visualization. Red Six Aerospace, Inc., submits that there are extraordinary circumstances warranting a grant of the STA request.

Red Six Aerospace, Inc., is developing an experimental Airborne Augmented Reality Visualization System in an effort to increase pilot safety and the efficiency of pilot training. Due to the extreme frequency congestion in the Southern California area, Red Six Aerospace, Inc., requests the use of this channel.

Red Six Aerospace, Inc., certifies that the operation of the requested channel for the purposes specified herein will not cause interference to any established stations.

Grant of the instant request for STA for the 2.2GHz band would serve the public interest by enabling Red Six Aerospace, Inc., to experiment with Silvus Technologies Inc., radios in a MANET / MESH networking scenario as it relates to flight telemetry, propagation, data throughput, vehicle integration and impact while developing an experimental augmented reality system. The proposed service would enable demonstration of Silvus Technologies, Inc. Streamcaster SC4400 transceivers in a MIMO / MANET array in an aerial exercise. A visual representation of the flight plan for testing is presented below.

In accordance with Section 74.633 of the Commission's Rules, the following is provided:

Applicants Name:	Red Six Aerospace, Inc.
Address:	3225 Donald Douglas Loop South Santa Monica, CA, 90405
Type and Manufacturer Of Equipment:	Silvus Technologies, Inc. Streamcaster SC4400
Power Output:	8W
ERP:	27W AERIAL
Emission:	8M00D7W
Frequency:	2280.0MHz, 8M00D7W @ 27W AERIAL
Area of Operation:	50Km around each tower

Coordinates: POP08 N 34 05 06.80
W 118 47 02.68
POP45 N 34 15 09.73
W 119 02 42.74

Antenna Height: **8000' AGL IN A MANNED FIXED WING AIRCRAFT**

Antenna: 5dBi Vertical

Antenna Gain: 5dBi

Dates of Operation: March 15, 2022 – March 14, 2023
(Intermittent Usage during these days)

Red Six Aerospace, Inc., requests an STA to operate on the above-referenced frequency for a period not to exceed six months. No application for regular authorization will subsequently be filed.

Red Six Aerospace, Inc., certifies that no party to the application is subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C § 853(a).

Should you have any questions regarding this matter, please contact, John Winch, by telephone 626 676 1470.

Respectfully submitted,

By: John Winch
Frequency Coordinator

