

September 11, 2019

In re Application of

Silvus Technologies, Inc.
10990 Wilshire BLVD., Suite 1500
Los Angeles, California 90024

To operate within the 2200-2290MHz and 4400-4940MHz Telemetry Bands in Los Angeles, California.

ATTN.: Microwave Branch

Silvus Technologies, Inc. hereby requests Special Temporary Authority (STA) to operate within the 2200-2290MHz and 4400-4940MHz telemetry bands pursuant to Section 21.25 of the Commission's Rules. Silvus Technologies, Inc. requests that the Commission grant it temporary authority to operate on the frequencies centered on 2210MHz, 2235MHz, 4410MHz and 4440MHz with 20MHz bandwidths from October 15, 2019 through November 15, 2019 with intermittent usage. As explained below, Silvus Technologies, Inc. is filing an STA request to demonstrate their DRIM radio network platform for Defense Advanced Research Projects Agency (DARPA). Silvus Technologies, Inc., submits that there are extraordinary circumstances warranting a grant of the STA request.

The Defense Advanced Research Projects Agency has invited Silvus Technologies, Inc., to demonstrate their DRIM radio network platform in congested and contested environments with regard to data coherency, propagation, data throughput, vehicle integration and impact utilizing a UAV. Due to the extreme frequency congestion within the Southern California Area, Silvus Technologies, Inc. requests the use of these channels.

Silvus Technologies, 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 and 4.4GHz bands would serve the public interest by enabling Silvus Technologies, Inc., to demonstrate the reliability of their emission scheme as it relates to transmitting and receiving consistent data remotely. The proposed service would enable the demonstration of the Streamcaster SC4200 / SC4400 transceiver / antenna array in an unmanned aerial exercise.

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

Applicants Name: Silvus Technologies, Inc.
Address: 10990 Wilshire BLVD., Suite 1500
Los Angeles, California 90024

Type and Manufacturer
Of Equipment: Streamcaster SC4200 / SC4400

Power Output: 4W

ERP: **13W**

Emission: 20M00D7W

Frequency: 2210.0MHz
2235.0MHz
4410.0MHz
4440.0MHz

Area of Operation: 5Km

Coordinates: 34 10 24.62 N
118 28 52.05 W

Antenna Height: **UNMANNED DRONE @ OR BELOW 50m AGL**

Antenna: 2dBi Vertical

Antenna Gain: 2dBi

Dates of Operation: October 15, 2019 – November 15, 2019
(Intermittent Usage during these days)

Silvus Technologies, 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.

Silvus Technologies, 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