

September 02, 2021

In re Application of

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

To operate in the 2200-2290MHz, 2360-2390MHz and 4400-4940MHz Telemetry Bands in Leesburg, Virginia.

ATTN.: Microwave Branch

Silvus Technologies, Inc., hereby requests Special Temporary Authority (STA) to operate within the 2200-2290MHz, 2360-2390MHz 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 at 2230MHz, 2380MHz and 4810MHz with a 20MHz bandwidth from October 04, 2021, through October 08, 2021, with intermittent usage. If the 2230MHz or the 4810MHz frequency range is unavailable, any 20MHz channel within the bands 2200-2290MHz and the 4400-4940MHz will suffice. As explained below, Silvus Technologies, Inc., is filing an STA request to demonstrate new microwave technologies in a MIMO/MANET configuration for a demonstration for the U.S. Army's Periscope Aviation UAS project in Leesburg, Virginia. Silvus Technologies, Inc., submits that there are extraordinary circumstances warranting a grant of the STA request.

Silvus Technologies, Inc., is demonstrating new microwave emission technologies for the U.S. Army's Periscope Aviation UAS project as it relates to data coherency, propagation, data throughput, vehicle integration and impact. Due to the extreme frequency congestion in the Washington, D.C. area, coupled with the added congestion from traditional Television and News coverage of area events, Silvus Technologies, Inc., requests the use of these channels.

Silvus Technologies, Inc., certifies that the operation of the requested channels for the purposes specified herein will not cause interference to any established stations.

Grant of the instant request for STA for the 2.2GHz, 2.3GHz band and the 4.5GHz bands would serve the public interest by enabling Silvus Technologies, Inc., to demonstrate the reliability of their emission scheme as it relates in an aerial exercise in a wireless MIMO/MANET configuration. The proposed service would enable demonstration of the Streamcaster SC4480 transceiver / antenna array in an aerial exercise. Silvus Technologies, Inc is in the process of obtaining the consent of the relevant frequency coordinators for this project, including AFTRCC. AFTRCC has indicated its intent to forward the results of the coordination to the Commission.

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 SC4480

Power Output: 4W

ERP: **8W AERIAL**

Emission: 20M00D7W

Frequency: 2230.0MHZ, 20M00D7W @ 8W TERRESTRIAL  
2380.0MHZ, 20M00D7W @ 8W TERRESTRIAL  
4810.0MHZ, 20M00D7W @ 8W TERRESTRIAL

Area of Operation: 35Km

Coordinates: N 39 05 39.34  
W 077 36 49.29

Antenna Height: **400' AGL UNMANNED AERIAL VEHICLE**

Antenna: Vertical / Horizontal Polarized

Antenna Gain: 15dBi

Dates of Operation: October 04, 2021 – October 08, 2021  
(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

cc: Wayne Morris, AFTRCC