

September 16, 2020

In re Application of

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

To operate within the 2360-2390MHz Telemetry Band off-shore near Wallops Island, Virginia.

ATTN.: Microwave Branch

Silvus Technologies, Inc., hereby requests Special Temporary Authority (STA) to operate within the 2360-2390MHz telemetry band 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 frequency centered at 2380MHz with a 20MHz bandwidth from November 08, 2020 through November 14, 2020 with intermittent usage. As explained below, Silvus Technologies, Inc., is filing an STA request to demonstrate new microwave technologies in a MIMO / MANET configuration for the United States Navy Surface Combat Systems Center at Wallops Island, Virginia. Silvus Technologies, Inc., submits that there are extraordinary circumstances warranting a grant of the STA request.

The United States Navy has invited Silvus Technologies, Inc., to demonstrate emerging emission MANET / MIMO microwave technologies with relation to propagation, data throughput, vehicle integration and impact for proof of concept utilizing an aircraft as a relay to transmit video for long distance off-shore MESH networking. Due to the extreme frequency congestion in the Washington, D.C. area, Silvus Technologies, Inc., requests the use of this channel.

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 2.3GHz band would serve the public interest by enabling Silvus Technologies, Inc., to demonstrate the reliability of their emission scheme as it relates to a MANET / MESH networking scenario. The proposed service would enable the demonstration of the Streamcaster SC4200/4400 transceivers / antenna array in an airborne, off-shore 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 SC4200/4400
Power Output:	8W
ERP:	16W
Emission:	20M00D7W
Frequency:	2380.0MHz, 20M00D7W @ 16W AERIAL

Area of Operation: 130Km

Coordinates: N 37 50 00
W 074 20 00

Antenna Height: **MANNED FIXED WING @ OR BELOW 15000' AGL**
6' AGL

Antenna: 3dBi Omni Haigh-Farr on aircraft
24dBi Cross Polar on ground at Wallops Island
4dBi Omni on off-shore vessel

Antenna Gain: 3dBi, 4dBi, 24dBi

Dates of Operation: November 08, 2020 – November 14, 2020
(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