

July 05, 2022

In re Application of

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

To operate in the 1350-1390MHz and 2200-2290MHz Telemetry Bands around the Salton Sea, California.

ATTN.: Microwave Branch

Silvus Technologies, Inc., hereby requests Special Temporary Authority (STA) to operate within the 1350-1390MHz and 2200-2290MHz 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 1380MHz, 2220MHz and 2280MHz with a 20MHz bandwidth from August 01, 2022 through October 31, 2022, with intermittent usage. If the 2220MHz or the 2280MHz frequency range is unavailable, any two 20MHz channels within the band 2200-2290MHz will suffice. As explained below, Silvus Technologies, Inc., is filing an STA request to demonstrate new microwave technologies in a MIMO/MANET configuration for DARPA. 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 a DARPA funded initiative called RN-DMC (Resilient Networked Distributed Mosaic Communication) which calls for the creation of multi-stage relay network between two legacy devices. Due to the extreme frequency congestion in the Desert Center 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 1.3GHz and 2.2GHz band would serve the public interest by enabling Silvus Technologies, Inc., to demonstrate the reliability of their emission scheme as it relates to 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 FAA. The FAA 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:	2W
ERP:	20W TERRESTRIAL
Emission:	20M00D7W
Frequency:	1380.0MHz, 20M00D7W @ 20W TERRESTRIAL

2220.0MHz, 20M00D7W @ 20W AERIAL
2280.0MHz, 20M00D7W @ 20W AERIAL

Area of Operation: 50Km

Coordinates: **AERIAL**
N 33 10 58.80
W 116 16 04.80

TERRESTRIAL
N 33 29 06.0
W 115 53 49.20

Antenna Height: **MANNED FIXED WING @ OR BELOW 20,000' AGL**

Antenna: Vertically Polarized

Antenna Gain: 6dBi

Dates of Operation: August 01, 2022 – October 31, 2022
(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

