

July 18, 2018

In re Application of

Soar Technology, Inc.
3600 Green Court Suite 600
Ann Arbor, Michigan 48105

To operate in the 2360-2390MHz Telemetry Band near Quantico, Virginia.

ATTN.: Microwave Branch

Soar Technology, 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. Soar Technology, Inc. requests that the Commission grant it temporary authority to operate on the frequency centered at 2380MHz with a 20MHz bandwidth from September 01, 2018 through September 30, 2018 with intermittent usage. As explained below, Soar Technology, Inc., is filing an STA request to demonstrate data coherency in a MIMO / MANET configuration. Soar Technology, Inc., submits that there are extraordinary circumstances warranting a grant of the STA request.

The Defense Advanced Research Projects Agency (DARPA) has invited Soar Technology, Inc to demonstrate new microwave technologies with relation to propagation, data throughput, vehicle integration and impact as it relates to robotic system control. Due to the frequency congestion in the Washington, D.C. area, Soar Technology, Inc., requests the use of this channel.

Soar Technology, 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 Soar Technology, Inc., to demonstrate the reliability of their emission scheme as it relates to transmitting and receiving consistent data packets to control robotic systems remotely. The proposed service would enable a demonstration of the Streamcaster SC4200 transceiver / antenna array in a mobile terrestrial exercise that would otherwise not be available to the engineering team. Soar Technology, 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:	Soar Technology, Inc.
Address:	3600 Green Court Suite 600 Ann Arbor, Michigan 48105
Type and Manufacturer Of Equipment:	Silvus Technologies, Inc. Streamcaster SC4200
Power Output:	4W
ERP:	8W
Emission:	20M00D7W
Frequency:	2380.0MHz, 20M00D7W @ 4W TERRESTRIAL
Area of Operation:	50Km

Coordinates: N 38 30 57.07
W 077 28 06.11

Antenna Height: 15' AGL

Antenna: 3dBi Omni Haigh-Farr

Antenna Gain: 3dBi

Dates of Operation: September 01, 2018 – September 30, 2018
(Intermittent Usage during these days)

Soar Technology, 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.

Soar Technology, 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