

June 07, 2017

In re Application of

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

To operate in the 2360-2390MHz Telemetry Band in Fort Stewart, Georgia.

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 June 20, 2017 through October 31, 2017 with intermittent usage. As explained below, Soar Technology, Inc., is filing an STA request to demonstrate data coherency in a MIMO 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 regard to data coherency. Due to the extreme frequency congestion in the Fort Stewart area, coupled with the added congestion from traditional Television and News coverage of area events, 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 robots remotely. The proposed service would enable a demonstration of the Streamcaster SC4200 transceiver / antenna array in an airborne/terrestrial exercise. 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: **4W**

Emission: 20M00D7W

Frequency: **2380.0MHz, 20M00D7W @ 4W AERIAL**

Area of Operation: 50Km

Coordinates: N 32 00 40.55  
W 081 49 53.43

Antenna Height: **UNMANNED DRONE @ OR BELOW 500' AGL**

Antenna: 3dBi Omni Haigh-Farr

Antenna Gain: 3dBi

Dates of Operation: June 20, 2017 – October 31, 2017  
(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