

May 12, 2018

In re Application of

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

To operate in the 2200-2290MHz Telemetry Band in Ann Arbor, Michigan.

ATTN.: Microwave Branch

Soar Technology, Inc., hereby requests Special Temporary Authority (STA) to operate within the 2270-2290MHz 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 2270MHz with a 20MHz bandwidth from June 10, 2018 through December 10, 2018 with intermittent usage. As explained below, Soar Technology, Inc., is filing an STA request to is filing an STA request to test and evaluate emerging microwave technology in a MIMO / MANET configuration. Soar Technology, Inc., submits that there are extraordinary circumstances warranting a grant of the STA request.

Soar Technology, Inc. is evaluating emerging MANET / MIMO microwave technologies with relation to propagation, data throughput, vehicle integration and impact to present documentation for application for governmental contracts. Due to the extreme frequency congestion in the Ann Arbor 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 2.2GHz band would serve the public interest by enabling Soar Technology, Inc., to evaluate the required remote networking coverage for this experiment. The proposed service would enhance the experiment by providing on the spot networking from mobile locations that would not otherwise be available to the engineering team. Additionally, the proposed service would enable a demonstration of the Streamcaster SC4200 transceiver / antenna array in a terrestrial/aerial exercise.

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: **2270.0MHz, 20M00D7W @ 4W AERIAL**

Area of Operation: 35Km

Coordinates: N 42 17 18.07  
W 083 44 17.38

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

Antenna: 3dBi Omni Haigh-Farr

Antenna Gain: 3dBi

Dates of Operation: June 10, 2018 – December 10, 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