

September 12, 2019

In re Application of

Xwing
292 Ivy Street, Suite A
San Francisco, CA 94102

To operate in the 2200-2290MHz and 2360-2390MHz Telemetry Bands in Northern California.

ATTN.: Microwave Branch

Xwing hereby requests Special Temporary Authority (STA) to operate within the 2200-2290MHz and 2360-2390MHz telemetry bands pursuant to Section 21.25 of the Commission's Rules. Xwing requests that the Commission grant it temporary authority to operate on the frequencies centered at 2210MHz and 2380MHz with a 20MHz bandwidth from November 01, 2019 through November 30, 2019 with intermittent usage. As explained below, Xwing is filing an STA request to experiment with telemetry for an autonomous aircraft project. Xwing submits that there are extraordinary circumstances warranting a grant of the STA request.

Xwing is experimenting with hardware and software to support an autonomous aircraft project. Due to the extreme frequency congestion in Northern California, Xwing requests the use of these channels.

Xwing 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 and 2.3GHz bands would serve the public interest by enabling Xwing to experiment with hardware and software solutions to support autonomous aircraft flight. The proposed service would enable demonstration of Silvus Technologies, Inc. Streamcaster SC4200 transceivers in a MIMO / MANET array in an aerial exercise.

In accordance with Section 74.633 of the Commission's Rules, the following is provided:

Applicants Name:	Xwing
Address:	292 Ivy Street, Suite A San Francisco, CA 94102
Type and Manufacturer Of Equipment:	Silvus Technologies, Inc. Streamcaster SC4200
Power Output:	4W
ERP:	10W AERIAL
Emission:	20M00D7W
Frequency:	2210.0MHz, 20M00D7W @ 10W AERIAL 2380.0MHz, 20M00D7W @ 10W AERIAL
Area of Operation:	250Km
Coordinates:	N 37 56 59.98 W 121 14 33.50

Antenna Height: **MANNED AIRCRAFT @ OR BELOW 8000' AGL**

Antenna: 3dBi Horizontal **AERIAL**
12dBi Sector TERRESTRIAL

Antenna Gain: 3dBi, 12dBi

Dates of Operation: November 01, 2019 – November 30, 2019
(Intermittent Usage during these days)

Xwing 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.

Xwing 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