

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WR9XGB

(Call Sign)

XT FX MO

(Class of Station)

1681-EX-ST-2020

(File Number)

NAME Xwing Inc

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Xwing is developing autonomous flight technology enabling seamless integration of Unmanned Aerial Systems (UAS) into the National Airspace System (NAS). This program will also test an

Station Locations

- (1) Concord (CONTRA COSTA), CA - NL 37-59-00; WL 122-03-23
- (2) Concord (CONTRA COSTA), CA - NL 37-59-00; WL 122-03-23
- (3) MOBILE: Concord, CA (KCCR) AirborneMax Alt 15,000ft MSL, within 445 km, centered around NL 37-59-00; WL 122-03-23

Frequency Information

Concord (CONTRA COSTA), CA - NL 37-59-00; WL 122-03-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.402-2.478 GHz	FX	8M00D1D	2523 W (ERP)	2.0E-6 %
		8M00D1D		
		8M00D1D		
		8M00D1D		

This authorization effective December 01, 2020 and
will expire 3:00 A.M. EST June 02, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Concord (CONTRA COSTA), CA - NL 37-59-00; WL 122-03-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.402-2.478 GHz	FX	8M00D1D	56 W (ERP)	2.0E-6 %
		8M00D1D		
		8M00D1D		
		8M00D1D		

MOBILE: Concord, CA (KCCR) AirborneMax Alt 15,000ft MSL, within 445 km, centered around NL 37-59-00; WL 122-03-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.402-2.478 GHz	MO	8M00D1D	13 W (ERP)	2.0E-6 %
		8M00D1D		
		8M00D1D		
		8M00D1D		

Special Conditions:

- (1) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (2) Xwing Inc must coordinate with the local Society of Broadcast Engineers frequency coordinator in each proposed area prior to operation in the frequency range from 2450 MHz to 2478 MHz. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (3) Xwing Inc coordinate with Fixed Microwave Service licensees in each proposed area in accordance with 47 C.F.R, Part 101.103(d) prior to operation in frequency range from 2450 MHz to 2478 MHz.
- (4) Concurrence of this STA is based upon the understanding that all Detect and Avoid (DAA) processing is onboard the aircraft, which is manned. Regarding use of 2.4 GHz to support platform is contingent upon the proper development of the C-band (5030-5091 MHz) link to accommodate a fused C2/DAA/Weather/Voice capability, with a separate link for video and the platform having TCAS, ADS-B in, and airborne radar onboard with relevant tracks downloaded via the link.