

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

EXPERIMENTAL

(Nature of Service)

WR9XFZ

(Call Sign)

XT FX MO

(Class of Station)

1653-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) Airborne Max 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 (+/-)
902-928 MHz	FX	400KD3D	257 W (ERP)	0.1 %

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 (+/-)
902-928 MHz	FX	400KD3D	16 W (ERP)	0.1 %

MOBILE: Concord, CA (KCCR) Airborne Max 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 (+/-)
902-928 MHz	MO	400KD3D	9 W (ERP)	0.1 %

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) Prior to commencing any operations in the frequencies below, Xwing Inc must obtain consent from the following within 50 miles of the contours of the testing area:
 - > Location & Monitoring Service licensees (902-928 MHz)
- (3) X-Wing, Inc. must notch out the following:
 - a. 915 MHz (+/-4.5mhz)
- (4) Concurrence is based upon the use of 5030-5091 MHz as the primary C2 link for the X-Wing, Inc. UAS platform, and that 900 MHz is only for backup purposes for this testing. Proponent must acknowledge that the 900 MHz C2 may not be support for operational use or commercial applications, and should not be used as a substitute for the 5030-5091 MHz. Due to the non-licensed nature of 900 MHz operations the reliability may be in question.