

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

EXPERIMENTAL

(Nature of Service)

WJ9XJB

(Call Sign)

XT FX MO

(Class of Station)

1652-EX-ST-2017

(File Number)

NAME Shield Aviation 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:

Provision of ISR services to Navy customer.

Station Locations

- (1) San Clemente Island (LOS ANGELES), CA - NL 33-01-18; WL 118-34-44; MOBILE:
Max altitude 12,000 ft. MSL, within 20 km

Frequency Information

San Clemente Island (LOS ANGELES), CA - NL 33-01-18; WL 118-34-44; MOBILE: Max altitude 12,000 ft. MSL, within 20 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4660 MHz	MO	11M0N2D	3 W (ERP)	0.00002 %
5850 MHz	FX	11M0N2D	3 W (ERP)	0.00002 %

This authorization effective January 10, 2018 and
will expire 3:00 A.M. EST July 10, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) Prior to operation, licensee must coordinate with Part 25 stations authorized to operate in these frequency bands that are located within a within a 40 km radius of the transmitter.
- (2) NTIA does not support the use of unlicensed bands (5850 MHz) for UAV control links above 400 feet AGL. Therefore, NTIA will not support further development of this UAV unless Shield Aviation Inc. agrees to find suitable protected spectrum. The NTIA has no issue with 4660 MHz as long as it does not get radio interference from other Federal users. Continued use of 5850 MHz for future requests may result in non-concurrence of renewals unless progress is made for new frequency.
- (3) NTIA has concerns with the use of 5850 MHz. The current authorization is for Dedicated Short-Range Communications (DSRC) services and Satellite uplinks. If this STA is intended as a developmental item, Shield Aviation Inc. should be aware of the use of the 5850-5925 MHz band is restricted to DSRC. If this is simply an experimental use and no further deployment is expected, then NTIA has no objections, however, Shield Aviation Inc. should have no expectations of automatic approval in this band in the future.