

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

EXPERIMENTAL

(Nature of Service)

WQ9XFV

(Call Sign)

XT FX MO

(Class of Station)

0089-EX-ST-2020

(File Number)

NAME Tiger Innovations, 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:

Test communications from the SOARS experiment to ground receivers.

Station Locations

- (1) MOBILE: Nongeostationary, SP
- (2) Herndon (FAIRFAX), VA - NL 38-57-51; WL 77-22-45

Frequency Information

MOBILE: Nongeostationary, SP

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
400.62 MHz	MO	4K00F1D	2.2 W (ERP)	0.0002 %

This authorization effective March 09, 2020 and
will expire 3:00 A.M. EST August 31, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Herndon (FAIRFAX), VA - NL 38-57-51; WL 77-22-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
400.03 MHz	FX	22K0F1D	1278 W (ERP)	0.000025 %

Special Conditions:

- (1) Upon receipt of a conjunction warning from the JSpOC or other source, the licensee must review the warning and take all possible steps to assess and, if necessary, to mitigate collision risk, including, but not limited to: contacting the operator of any active spacecraft involved in such warning; sharing ephemeris data and other appropriate operational information with any such operator; modifying spacecraft attitude and/or operations.
- (2) Following launch of the satellite, the licensee must notify the FCC through electronic submission to the license file, of the status of the satellite (transmissions commenced, etc.), not later than 7 days after commencement or expected commencement of transmissions, and of termination of transmissions, not later than three months after such termination.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) Uplink operations using a frequency of 400.03 MHz shall not occur when the NASA International Space Station (ISS) (NORAD designation 25544 or international spacecraft ID 1998-67A) is within horizon to horizon view of the SOARS ground station location in Herndon, VA.
- (6) SOARS downlink operations using a frequency of 400.62 MHz shall not occur when the distance between the SOARS CubeSat and the NASA International Space Station (ISS) (NORAD designation 25544 or international spacecraft ID 1998-67A) is less than 2500 km.
- (7) Stop buzzer, Robert Atkin at 703-435-2980 x103.
- (8) Point-of-Communication: SOARS