

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

EXPERIMENTAL

(Nature of Service)

WS9XQR

(Call Sign)

XT FX MO

(Class of Station)

1395-EX-ST-2021

(File Number)

NAME uAvionix Corporation

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:

Support of uAvionix testing of C-Band UAS C2 radios for compliance with RTCA DO-362A and eventually TSO-C213a.

Station Locations

- (1) MOBILE: Grand Forks ND up to FL100, within 80 km, centered around NL 47-55-12; WL 97-05-17
- (2) MOBILE: Angus, MN up to FL100, within 80 km, centered around NL 48-02-05; WL 96-53-22
- (3) Tabor Township, MN - NL 48-02-05; WL 96-53-22; MOBILE: Tabor Township, MN, within 16 km, centered around NL 48-02-05; WL 96-53-22
- (4) Grand Forks, ND - NL 47-55-12; WL 97-05-17; MOBILE: Grand Forks, ND, within 16 km, centered around NL 47-55-12; WL 97-05-17

Frequency Information

MOBILE: Grand Forks ND up to FL100, within 80 km, centered around NL 47-55-12; WL 97-05-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5050.9475 MHz	MO	250KG1D	10 W (ERP)	0.00005 %

This authorization effective September 20, 2021 and
will expire 3:00 A.M. EST March 21, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Grand Forks ND up to FL100, within 80 km, centered around NL 47-55-12; WL 97-05-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5051.1625 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5051.3375 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5051.5925 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5052.0225 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5052.4525 MHz	MO	250KG1D	10 W (ERP)	0.00005 %

MOBILE: Angus, MN up to FL100, within 80 km, centered around NL 48-02-05; WL 96-53-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5050.9475 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5051.1625 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5051.3375 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5051.5925 MHz	MO	250KG1D	10 W (ERP)	0.00005 %

Frequency Information

MOBILE: Angus, MN up to FL100, within 80 km, centered around NL 48-02-05; WL 96-53-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5052.0225 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5052.4525 MHz	MO	250KG1D	10 W (ERP)	0.00005 %

Tabor Township, MN - NL 48-02-05; WL 96-53-22; MOBILE: Tabor Township, MN, within 16 km, centered around NL 48-02-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5050.9475 MHz	FX	250KG1D	74 W (ERP)	0.00005 %
5051.1625 MHz	FX	250KG1D	74 W (ERP)	0.00005 %
5051.3375 MHz	FX	250KG1D	74 W (ERP)	0.00005 %
5051.5925 MHz	FX	250KG1D	74 W (ERP)	0.00005 %
5052.0225 MHz	FX	250KG1D	74 W (ERP)	0.00005 %
5052.4525 MHz	FX	250KG1D	74 W (ERP)	0.00005 %

Frequency Information

Grand Forks, ND - NL 47-55-12; WL 97-05-17; MOBILE: Grand Forks, ND, within 16 km, centered around NL 47-55-12; WL 9

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5050.9475 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5051.1625 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5051.3375 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5051.5925 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5052.0225 MHz	MO	250KG1D	10 W (ERP)	0.00005 %
5052.4525 MHz	MO	250KG1D	10 W (ERP)	0.00005 %

Special Conditions:

- (1) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (2) 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.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.