

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

EXPERIMENTAL

(Nature of Service)

WR9XQT

(Call Sign)

XT FX MO

(Class of Station)

0102-EX-ST-2021

(File Number)

NAME Insitu

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:

UAS testing to support command and control, video downlink, detect and avoid radar, ATC transponder and other data link operations.

Station Locations

- (1) Fort Bragg (CUMBERLAND), NC - NL 35-15-07; WL 79-21-30; MOBILE: Fort Bragg, NC, UAS Test Range 15000 ft AGL, within 2 km, centered around NL 35-15-07; WL 79-21-30

Frequency Information

Fort Bragg (CUMBERLAND), NC - NL 35-15-07; WL 79-21-30; MOBILE: Fort Bragg, NC, UAS Test Range 15000 ft AGL, with

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1370-1390 MHz	FX	230KF1D	608 W (ERP)	
1370-1390 MHz	FX	230KF1D	1 W (ERP)	
2221-2258 MHz	FX	18M5F9W 9M58G1D	2 W (ERP)	

This authorization effective February 25, 2021 and
will expire 3:00 A.M. EST April 16, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Fort Bragg (CUMBERLAND), NC - NL 35-15-07; WL 79-21-30; MOBILE: Fort Bragg, NC, UAS Test Range 15000 ft AGL, with

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2221-2258 MHz	FX	4M79G1D 2M40G1D	2 W (ERP)	
2262-2267 MHz	FX	2M40G1D 4M79G1D	2 W (ERP)	
2285-2290 MHz	FX	2M40G1D 4M79G1D	2 W (ERP)	
2360-2390 MHz	FX	18M5F9W 9M58G1D 4M79G1D 2M40G1D	2 W (ERP)	

Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1535 or 2310-2390 MHz was coordinated prior to authorization with the Mid-Atlantic Area Frequency Coordinator (AFC), Patuxent River, MD, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the AFC as necessary to ensure compatibility with existing uses.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) Insitu must contact the Ft Bragg Spectrum Manager, Ben Bassett, at 910-396-0897 at least 24 hours prior to operations.
- (5) Insitu Operations Action Center Stop Buzzer, 509-493-4691, shall be available at all times during testing.
- (6) Insitu may not operate on 1090 MHz, since the proponent withdrew the 1090 MHz transponder coordination under NG T210107 during FAA WebFCR coordination.

Special Conditions:

- (7) Operations in the 1370-1390 MHz band shall adhere to the conditions per FAA WebFCR coordination NG T210108 and NG T210109.
- (8) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating stations. Insitu should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee will be subject to immediate shut down.
- (9) The 2200-2221 MHz, 2258-2262 MHz, and 2267-2285 MHz bands shall be excluded from operation due to impacts to federal Earth stations.
- (10) Due to Insitu already having pre-coordinated operations with Ft. Bragg for a 1-day test, NTIA concurs from 25 Feb 2021 thru 15 April 2021 for testing.