

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WN9XIT

(Call Sign)

1533-EX-ST-2018

(File Number)

NAME Fortem Technologies, 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:

To test our low weight, low power radar.

Station Locations

(1) Foxborough (NORFOLK), MA - NL 42-05-27; WL 71-16-00

Frequency Information

Foxborough (NORFOLK), MA - NL 42-05-27; WL 71-16-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	FX	300MQXN	30 W (ERP)	0.000094 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.

This authorization effective September 25, 2018 and
will expire 3:00 A.M. EST March 26, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) The stop buzzer contact for this project is Spencer Prows at 608-358-8051 and George Mayor at 703-629-1968.
- (5) The radars shall not be used for air traffic control purposes or separation of aircraft.
- (6) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (7) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (8) No automatic renewal for this authorization.
- (9) Fortem Technologies, Inc. should be aware that the 15.4-15.7 GHz band is allocated for Aeronautical Radionavigation and as such is suitable for unmanned aircraft detect and avoid (DAA) systems. Fortem Technologies, Inc. also be aware that an allocation for Radiolocation is required for counter drone operations and there is no Radiolocation allocation in the 15.4-15.7 GHz band for US Civil operators. Further, Federal Government counter drone operators would be constrained by the footnote US511E which limits Federal Government Radiolocation operations in this band to system that require an emission bandwidth that exceed 1.6 GHz.
- (10) 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 station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (11) The authorized emission bandwidth shall be located within the band that it does not extend beyond the upper or lower limits of the requested band in this application.