

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

EXPERIMENTAL

(Nature of Service)

WP9XAA

(Call Sign)

XT MO

(Class of Station)

1352-EX-ST-2019

(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 its low weight, low power prototype radar on drones.

Station Locations

- (1) MOBILE: near WakeMed hospital, Raleigh, NC, within 10 km, centered around NL 35-54-34; WL 78-35-55

Frequency Information

MOBILE: near WakeMed hospital, Raleigh, NC, within 10 km, centered around NL 35-54-34; WL 78-35-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	1K00QXN	30 W (ERP)	0.000094 %

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

This authorization effective August 07, 2019 and
will expire 3:00 A.M. EST February 06, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) For operations in the 15.43-15.63 GHz, the effective EIRP must be in accordance with Recommendation ITU-R S. 1340.
- (4) The stop buzzer contact for this project is George Mayor 408-516-6935.
- (5) The authorized herein must not be used for air traffic control communications.
- (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) This experimental station shall only be used for Detect and Avoid (DAA) operations. It shall not be used for radiolocation purposes such as UAS detection for security perimeters, drone interdiction or counter-UAS purposes.
- (10) Fortem Technologies, Inc. should be aware that the adjacent band 15.35-15.4 GHz is protected IAW US246. Future use at other locations near those listed in US131, may be problematic if emissions are allowed to cross into the band 15.35-15.4 GHz.
- (11) Future STA requests to extend this authorization will not be considered.