

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

EXPERIMENTAL

(Nature of Service)

WM9XUE

(Call Sign)

XT MO

(Class of Station)

0877-EX-ST-2018

(File Number)

NAME Capital Sciences, LLC

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:

The STA will enable Capital Sciences to test the Fortem Technologies low power radar for determination if the product is suitable for various surveillance applications.

Station Locations

- (1) MOBILE: Cartersville, GA, within 25 km, centered around NL 34-07-23; WL 84-50-55
- (2) MOBILE: Fort Lupton, CO, within 35 km, centered around NL 40-05-56; WL 104-42-02

Frequency Information

MOBILE: Cartersville, GA, within 25 km, centered around NL 34-07-23; WL 84-50-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	300MF0N	12 W (ERP)	0.000094 %

This authorization effective June 01, 2018 and
will expire 3:00 A.M. EST November 02, 2018

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COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Fort Lupton, CO, within 35 km, centered around NL 40-05-56; WL 104-42-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	300MF0N	12 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.
- (3) The stop buzzer point of contact is David Stewart, Phone: 703-283-7083, Email: dstewart@capsci.com
- (4) Station authorized herein must not be used to provide air traffic control communications.
- (5) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (6) 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.
- (7) Use of 15.4-15.7 GHz will be limited to detect and avoid (DAA) purposes only.