

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WQ9XOA

(Call Sign)

0801-EX-ST-2020

(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:

Evaluation of the Fortem Technologies R30 to determine its capabilities and performance for detecting manned aircraft.

Station Locations

- (1) Herndon (FAIRFAX), VA - NL 38-57-20; WL 77-23-03
- (2) Leesburg (LOUDOUN), VA - NL 39-04-46; WL 77-33-24
- (3) Cartersville (BARTOW), GA - NL 34-07-06; WL 84-51-01

Frequency Information

Herndon (FAIRFAX), VA - NL 38-57-20; WL 77-23-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	FX	175MQXN	317 W (ERP)	0.0015 %

This authorization effective June 24, 2020 and
will expire 3:00 A.M. EST October 25, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



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Cartersville (BARTOW), GA - NL 34-07-06; WL 84-51-01

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15.4-15.7 GHz	FX	175MQXN	317 W (ERP)	0.0015 %

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) These experimental stations 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.