

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

EXPERIMENTAL

(Nature of Service)

WP9XLQ

(Call Sign)

XT FX MO

(Class of Station)

1949-EX-ST-2019

(File Number)

NAME Systems & Technology Research

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:

We need to perform simple tests with out radar system to attempt to model the environment that we will be operating in and verify that the radar system is operating correctly.

Station Locations

- (1) Woburn (MIDDLESEX), MA - NL 42-29-45; WL 71-07-37
- (2) MOBILE: Caladesi Island State Park. FL, within 4.5 km, centered around NL 28-01-54; WL 82-27-25
- (3) MOBILE: Plum Island, MA, within 7 km, centered around NL 42-45-38; WL 70-44-02

Frequency Information

Woburn (MIDDLESEX), MA - NL 42-29-45; WL 71-07-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.4-15.4 GHz	FX	2G00Q3N	500 W (ERP)	100 %

This authorization effective January 01, 2020 and
will expire 3:00 A.M. EST June 02, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



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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) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (4) The stop buzzer contact for this project is Allison Crim
Phone: 410-725-8162
Email: allison.crim@stresearch.com
- (5) Systems & Technology Research must not operate in the 15.35-15.4 MHz band at the Woburn, MA and the Plum Island, MA locations due to interference to Radio Astronomy operations in the area.
- (6) Systems & Technology Research should avoid transmitting toward the Haystack Observatory (IVO 42-37-23N 071-29-17W) in the 14.47-14.5 GHz band.
- (7) Systems & Technology Research must notch out 14606.25 MHz and 15246.25 MHz (+/- 5 MHz) in order to protect Air Traffic operations in the area.
- (8) Systems & Technology Research must coordinate with Hanscom AFB 48 hours prior to testing at the Woburn, MA and Plum Island, MA locations. POC is James Conrad (james.conrad.7@us.af.mil, 781-225-6020) and David Marinkov (david.marinkov.1@us.af.mil, 781-225-2628).