

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

EXPERIMENTAL

(Nature of Service)

WM9XJH

(Call Sign)

XT FX MO

(Class of Station)

0393-EX-ST-2018

(File Number)

NAME CENTRA Technology, 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:

The STA will grant a transmit permit to an experimental LTE based C2 communication link for encrypted control of a UAS system.

Station Locations

- (1) Quantico Base (PRINCE WILLIAM), VA - NL 38-34-28; WL 77-32-43; MOBILE: Marine Corps Base Quantico, within 15 km, centered around NL 38-34-28; WL 77-32-43
- (2) Dahlgren (KING GEORGE), VA - NL 38-20-54; WL 77-02-43; MOBILE: NSWDD, within 15 km, centered around NL 38-20-54; WL 77-02-43

Frequency Information

Quantico Base (PRINCE WILLIAM), VA - NL 38-34-28; WL 77-32-43; MOBILE: Marine Corps Base Quantico, within 15 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
700-758 MHz	MO	10M0M7W	12 W (ERP)	
775-788 MHz	MO	10M0M7W	12 W (ERP)	

This authorization effective March 14, 2018 and
will expire 3:00 A.M. EST July 02, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Quantico Base (PRINCE WILLIAM), VA - NL 38-34-28; WL 77-32-43; MOBILE: Marine Corps Base Quantico, within 15 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
805-900 MHz	MO	10M0M7W	12 W (ERP)	
1710-2155 MHz	MO	10M0M7W	12 W (ERP)	

Dahlgren (KING GEORGE), VA - NL 38-20-54; WL 77-02-43; MOBILE: NSWDD, within 15 km, centered around NL 38-20-54;

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
700-758 MHz	MO	10M0M7W	12 W (ERP)	
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805-900 MHz	MO	10M0M7W	12 W (ERP)	
1710-2155 MHz	MO	10M0M7W	12 W (ERP)	

Special Conditions:

- (1) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.
- (4) 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.

Special Conditions:

- (5) CENTRA Technology, Inc. must coordinate all operations in the 2025 – 2110 MHz band with the NASA Goddard Space Flight Center (GSFC) Spectrum Manager, Scott Galbraith at 301-286-5089 or Vincent.s.galbraith@nasa.gov, at least 3 days prior to operation.
- (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) Operation is subject to consent of the following licensees within 50 miles of the test area:
 - *700 MHz licensees (698-758 MHz and 775-788 MHz)
 - *SMR licensees (809-824 MHz/854-869 MHz)
 - *Cellular licensees (824-849 MHz/869-894 MHz)
 - *Commercial Air-Ground licensee (849-851 MHz/894-896 MHz)
 - *SMR licensees (896-901 MHz/935-940 MHz)
 - *Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
- (8) The designated point-of-contact to terminate transmissions if interference occurs is Gavin Graham, at (703) 283-8950.