

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WJ2XQQ

(Call Sign)

XD FX MO

(Class of Station)

0597-EX-CN-2018

(File Number)

NAME CENTRA Technology, Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

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: Dahlgren, VA. 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)	
805-900 MHz	MO	10M0M7W	12 W (ERP)	

This authorization effective September 07, 2018 and
will expire 3:00 A.M. EST September 01, 2019

**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 (+/-)
1710-2155 MHz	MO	10M0M7W	12 W (ERP)	

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

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)	
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) 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.
- (3) 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.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

- (5) 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)
- (6) The designated point-of-contact to terminate transmissions if interference occurs is Gavin Graham, at (703) 283-8950.
- (7) 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.