

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

EXPERIMENTAL

(Nature of Service)

WP9XFJ

(Call Sign)

XT FX MO

(Class of Station)

1849-EX-ST-2019

(File Number)

NAME Virginia Tech - FAA UAS Test Site

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 experiment is in support of the Virginia Tech FAA UAS Test Site program and over-the-air testing is required to evaluate and validate the CNPC waveform and hardware.

Station Locations

- (1) Yuma, AZ - NL 32-58-17; WL 114-16-35; MOBILE: Yuma Proving Ground - Yuma, AZ, within 2 km, centered around NL 32-58-17; WL 114-16-35
- (2) MOBILE: Yuma Proving Ground - Yuma, AZ, within 61 km, centered around NL 32-58-17; WL 114-16-35

Frequency Information

Yuma, AZ - NL 32-58-17; WL 114-16-35; MOBILE: Yuma Proving Ground - Yuma, AZ, within 2 km, centered around NL 32-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5044.8175 MHz	MO	120KG1D	10 W (ERP)	0.00002 %
5045.0325 MHz	MO	120KG1D	10 W (ERP)	0.00002 %

This authorization effective October 17, 2019 and
will expire 3:00 A.M. EST April 02, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Yuma, AZ - NL 32-58-17; WL 114-16-35; MOBILE: Yuma Proving Ground - Yuma, AZ, within 2 km, centered around NL 32-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5045.2475 MHz	MO	120KG1D	10 W (ERP)	0.00002 %

MOBILE: Yuma Proving Ground - Yuma, AZ, within 61 km, centered around NL 32-58-17; WL 114-16-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5044.8175 MHz	MO	120KG1D	10 W (ERP)	0.00002 %
5045.0325 MHz	MO	120KG1D	10 W (ERP)	0.00002 %
5045.2475 MHz	MO	120KG1D	10 W (ERP)	0.00002 %

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) Operation is subject to prior coordination with FAA.
- (4) Virginia Tech must coordinate with the Yuma Proving Grounds SMO at 928-328-7144 at least 14 days prior to operation.
- (5) The bandwidth approved via the FAA pre-coordination was 205 kHz not the 120 kHz listed in this application, for future requests, please ensure the bandwidths are the same for both coordination efforts as the bandwidth is a determining factor in channel selection.