

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

EXPERIMENTAL

(Nature of Service)

WQ9XVP

(Call Sign)

XT      FX MO

(Class of Station)

1117-EX-ST-2020

(File Number)

NAME Virginia Tech MAAP - FAA Integrated Pilot Program

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:**

To test the performance of the Echodyne Corp EchoGuard (SSR) RADAR.

**Station Locations**

- (1) Farmville, VA, VA - NL 37-32-24; WL 78-20-17; MOBILE: North of Farmville, VA, within 20 km, centered around NL 37-32-24; WL 78-20-17

**Frequency Information**

Farmville, VA, VA - NL 37-32-24; WL 78-20-17; MOBILE: North of Farmville, VA, within 20 km, centered around NL 37-32-24;

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 24450-24650 MHz | FX            | 45M0FXN             | 246 W (ERP)      |                           |

**Special Conditions:**

- (1) This authorization SUPERSEDES the previously issued authorization with the same call sign and file number:
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

This authorization effective August 03, 2020 and  
will expire 3:00 A.M. EST February 01, 2021

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Special Conditions:

- (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) Virginia Tech must coordinate with Paulette Woody, nrqz@gb.nrao.edu, phone: (304) 456-2107, prior to operations.
- (5) The applicant states that the station class is fixed, but acknowledges mobile operation with a 20 km radius. FAA stipulates that the radar will not be operated in motion, and requests the locations of each of the four radars involved, and the total number of antenna faces being used. FAA POC is Mr. Rodney Murphy, Rodney.murphy@faa.gov.
- (6) The stop buzzer contact for this project is (336) 601-1154 (Primary), (540) 552-5646 (Secondary).
- (7) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by FAA, Contract Number 693KA7-18-T-00015. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.