

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

EXPERIMENTAL

(Nature of Service)

WR9XQN

(Call Sign)

XT MO

(Class of Station)

0574-EX-ST-2021

(File Number)

NAME Systems & Technologies 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:**

The purpose of this R&D and testing for multi UAV command and control for U.S. Government research

**Station Locations**

- (1) MOBILE: Plum Island RC Flyers, Newburyport, MA, within 3 km, centered around NL 42-47-45; WL 70-50-28
- (2) MOBILE: Concord, MA: Airborne 400ft AGL, within 26 km, centered around NL 42-28-50; WL 71-23-10
- (3) MOBILE: Concord, MA, within 26 km, centered around NL 42-28-50; WL 71-23-10
- (4) MOBILE: Plum Island, Newburyport, MA: Airborne 400ft AGL, within 3 km, centered around NL 42-47-45; WL 70-50-28
- (5) MOBILE: San Simeon, CA, within Hunter and Roberts MOAs, within 53 km, centered around NL 35-43-21; WL 121-17-12
- (6) MOBILE: San Simeon, CA, Within Hunter & Roberts MOAs: Airborne 400ft AGL, within 53 km, centered around NL 35-43-21; WL 121-17-12

This authorization effective May 14, 2021 and  
will expire 3:00 A.M. EST October 26, 2021

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Plum Island RC Flyers, Newburyport, MA, within 3 km, centered around NL 42-47-45; WL 70-50-28

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 1820-1880 MHz | MO            | 5M00W7W             | 3.2 W (ERP)      | 5.0E-6 %                  |

MOBILE: Concord, MA: Airborne 400ft AGL, within 26 km, centered around NL 42-28-50; WL 71-23-10

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 1820-1880 MHz | MO            | 5M00W7W             | 317 mW (ERP)     | 5.0E-6 %                  |

MOBILE: Concord, MA, within 26 km, centered around NL 42-28-50; WL 71-23-10

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 1820-1880 MHz | MO            | 5M00W7W             | 3.2 W (ERP)      | 5.0E-6 %                  |

MOBILE: Plum Island, Newburyport, MA: Airborne 400ft AGL, within 3 km, centered around NL 42-47-45; WL 70-50-28

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 1820-1880 MHz | MO            | 5M00W7W             | 317 mW (ERP)     | 5.0E-6 %                  |

## Frequency Information

MOBILE: San Simeon, CA, within Hunter and Roberts MOAs, within 53 km, centered around NL 35-43-21; WL 121-17-12

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 1820-1880 MHz | MO            | 5M00W7W             | 3.2 W (ERP)      | 5.0E-6 %                  |

MOBILE: San Simeon, CA, Within Hunter & Roberts MOAs: Airborne 400ft AGL, within 53 km, centered around NL 35-43-21; WL 121-17-12

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 1820-1880 MHz | MO            | 5M00W7W             | 317 mW (ERP)     | 5.0E-6 %                  |

## Special Conditions:

- (1) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (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.