

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

EXPERIMENTAL

(Nature of Service)

WL9XNZ

(Call Sign)

XT FX MO

(Class of Station)

1036-EX-ST-2019

(File Number)

NAME Aviation Communication and Surveillance Systems (ACSS)

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:

Evaluate and test a radar product for future use in airborne operations, providing a pilot increased situation awareness.

Station Locations

- (1) Phoenix (MARICOPA), AZ - NL 33-41-12; WL 112-05-47; MOBILE: Deer Valley Airport (DVT). Max alt 10000 ft AGL., within 150 km, centered around NL 33-41-12; WL 112-05-47

Frequency Information

Phoenix (MARICOPA), AZ - NL 33-41-12; WL 112-05-47; MOBILE: Deer Valley Airport (DVT). Max alt 10000 ft AGL., within 1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	300MF0N	6 W (ERP)	0.000094 %

Special Conditions:

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

This authorization effective August 01, 2019 and
will expire 3:00 A.M. EST February 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) This radar will not be used for air traffic control purposes of aircraft separation.
- (4) Aviation Communication and Surveillance Systems (ACSS) testing is for a small UAS only. Please provide details to the FAA POC; Mr. Rodney Murphy, at rodney.murphy@faa.gov.
- (5) Aviation Communication and Surveillance Systems must avoid transmission azimuths between 160 and 175 in the direction of the VLBA at Kitt Peak, AZ ($31^{\circ} 57' 23''$ $111^{\circ} 36' 45''$)
- (6) Prior to transmissions, Aviation Communication and Surveillance Systems must coordinate with POC for VLA and VLBA stations, Dan "Mert" Mertely, nrao-rfi@nrao.edu, phone: (575) 835-7128
- (7) This experimental station shall only be used for Detect and Avoid (DAA) operations. It shall not be used for radiolocation purposes such as UAS detection for security perimeters, drone interdiction or counter-UAS purposes.