

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

EXPERIMENTAL

(Nature of Service)

WJ2XYL

(Call Sign)

XC MO

(Class of Station)

1669-EX-ST-2020

(File Number)

NAME Technology Service Corporation

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:

Demonstration of low power radar for the purpose of tracking consumer grade UAS/drones.

Station Locations

- (1) MOBILE: Huntsville, AL, within 115 km, centered around NL 34-38-29; WL 86-46-30
- (2) MOBILE: MacDill AFB, FL, within 20 km, centered around NL 27-50-07; WL 82-29-17
- (3) MOBILE: Myakka, FL, within 20 km, centered around NL 27-29-21; WL 82-09-16

Frequency Information

MOBILE: Huntsville, AL, within 115 km, centered around NL 34-38-29; WL 86-46-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.2-10 GHz	MO	120MP0X 120MW1D 120MQ3X	16 kW (ERP)	1.0E-8 %
13.25-14 GHz	MO	120MP3X 120MW1D	32 kW (ERP)	1.0E-8 %

This authorization effective November 10, 2020 and
will expire 3:00 A.M. EST November 21, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Huntsville, AL, within 115 km, centered around NL 34-38-29; WL 86-46-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.25-14 GHz	MO	120MQ3X	32 kW (ERP)	1.0E-8 %

MOBILE: MacDill AFB, FL, within 20 km, centered around NL 27-50-07; WL 82-29-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.25-14 GHz	MO	120MP0X 120MQ3X 120MW1D	32 kW (ERP)	

MOBILE: Myakka, FL, within 20 km, centered around NL 27-29-21; WL 82-09-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13.25-14 GHz	MO	120MP0X 120MQ3X 120MW1D	32 kW (ERP)	

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.
- (3) The authorized station authorized herein must not be used for air traffic control communications.
- (4) Aircraft operations are limited to U.S.-registered aircraft.
- (5) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.

Special Conditions:

- (6) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (8) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (9) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (10) The applicant must coordinate with the local Society of Broadcast Engineers frequency coordinator and the affected Fixed Microwave Service licensees in adjacent band, 12.75-13.25 GHz prior to commencing the experimental operations.
- (11) The applicant must provide cease buzzer POC with phone number to DoD Gulf Area Frequency Coordinator at 96CS.SCXF.GAFC@us.af.mil
- (12) Technology Service Corporation must notch out the 13.75-13.8 GHz band.