

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WJ2XYL

(Call Sign)

0008-EX-CM-2020

(File Number)

NAME Technology Service Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(h) of the Commission's Rules

Station Locations

- (1) MOBILE: Huntsville, AL, within 115 km, centered around NL 34-38-29; WL 86-46-30
- (2) MOBILE: Eglin AFB, Fort Walton Beach, FL, within 40 km, centered around NL 30-29-39; WL 86-32-58

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 120MQ3X	32 kW (ERP)	1.0E-8 %

This authorization effective January 29, 2020 and
will expire 3:00 A.M. EST March 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Eglin AFB, Fort Walton Beach, FL, within 40 km, centered around NL 30-29-39; WL 86-32-58

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

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.
- (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) The stop buzzers contact for this project are Josiah Mullins 256-975-6201 and Josh Gullett 256-503-4085.
- (10) 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.
- (11) 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.

Special Conditions:

- (12) This authorization is issued for the express purpose of conducting experimental operation described in the related application and required by US Army, contract number W9113M-19-C-0066 and FA8650-20-C-9230. The use of this radio 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.