

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WS9XWP

(Call Sign)

1411-EX-ST-2021

(File Number)

NAME MIT Lincoln Laboratory

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:

MIT Lincoln Laboratory is developing a communications capability for the Department of Defense. The developed tech needs to demonstrated in air-to-air and air-to-ground flight tests.

Station Locations

- (1) MOBILE: Valparaiso, FL , max altitude 18,000 ft. AGL, within 100 km , centered around NL 30-29-10; WL 86-30-16, within 100 km, centered around NL 30-29-10; WL 86-30-16

Frequency Information

MOBILE: Valparaiso, FL , max altitude 18,000 ft. AGL, within 100 km , centered around NL 30-29-10; WL 86-30-16, within 100 km, centered around NL 30-29-10; WL 86-30-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.5-30 GHz	MO	12M0G1D	63 W (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.

This authorization effective March 01, 2022 and
will expire 3:00 A.M. EST April 01, 2022

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COMMISSION**



Special Conditions:

- (3) Licensee must coordinate with the Fixed Microwave Service licensees in the proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 28.5-30 GHz band.
- (4) Licensee is authorized to conduct air-to-air and air-to-ground flight tests at Valparaiso, FL. The airborne node antenna will be located on a manned aircraft and mounted in a fixed position on the underside of the fuselage. The airborne node will be operated at altitudes between 5,000 ft and 18,000 ft at Valparaiso, FL.
- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government. 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.
- (6) Stop buzzer POC is Richard Budd at 850-225-1861 and Michael Burton at 919-478-1356.