

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

EXPERIMENTAL

(Nature of Service)

WA8XDW

(Call Sign)

XT MO

(Class of Station)

1368-EX-ST-2026

(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:

The proposed experiment fulfills requirements for work supported by the Department of the Air Force under Air Force Contract No. FA8702-15-D-0001. MIT Lincoln Laboratory is developing

Station Locations

- (1) MOBILE: Within 5 km of 3 Chennault St, Bedford, MA, within 5 km, centered around NL 42-27-52; WL 71-17-10

Frequency Information

MOBILE: Within 5 km of 3 Chennault St, Bedford, MA, within 5 km, centered around NL 42-27-52; WL 71-17-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
25.25-26.5 GHz	MO	12M0G1D	10.5 kW (ERP)	0.001 %

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 must ensure that the antenna boresight, for both ground-based and airborne transmissions, is never directed within 15 degrees of the geostationary arc between 41°W and 174°W longitude.

This authorization effective August 03, 2026 and
will expire 3:00 A.M. ET January 30, 2027

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COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) For airborne transmissions, licensee must ensure that the antenna boresight is never directed within 10 degrees of the vector between the transmitter and the point on Earth's surface located at coordinates 42° 27' 52" N, 071° 17' 10" W, or 37° 55' 35"N, 075° 28' 32"W, whenever there is direct line-of-sight to that location.
- (4) Stop Buzzer Point of Contact: Carol Martin, 781-981-1671
- (5) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.