

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

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WL9XSO

(Call Sign)

1217-EX-ST-2017

(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:**

Operation is for field site testing of US Government-sponsored prototype sensing system.

**Station Locations**

- (1) MOBILE: Auburn, MA, USA: indoor, near 600 Southbridge St., within 0.2 km, centered around NL 42-14-44; WL 71-48-37
- (2) MOBILE: Auburn, MA, USA: indoor location on Sword St, within 0.2 km, centered around NL 42-13-24; WL 71-49-59

**Frequency Information**

MOBILE: Auburn, MA, USA: indoor, near 600 Southbridge St., within 0.2 km, centered around NL 42-14-44; WL 71-48-37

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 24-30 GHz | MO            | 5M00P0N             | 0.0032 W (ERP)   |                           |

This authorization effective September 05, 2017 and  
will expire 3:00 A.M. EST March 05, 2018

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Auburn, MA, USA: indoor location on Sword St, within 0.2 km, centered around NL 42-13-24; WL 71-49-59

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 24-30 GHz | MO            | 5M00P0N             | 0.0032 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) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number FA8721-05-C-0002. 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.
- (3) 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.