

**FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPECIAL TEMPORARY AUTHORITY**

Applicant Name:

MIT Lincoln Laboratory

Address:

Attention: Joseph Fischetti

Best Contact:

Ryan Lewis, Associate Staff 781-981-1671

Explanation

Please explain why an STA is necessary:

Authority is requested for a 12 month period – August 2015 through July 2016 – covering the initial phase of a data collection program that MIT Lincoln Laboratory is performing in support of work sponsored by DARPA. To support the program's schedule and analysis efforts the data collection activity is planned to commence in August. Due to the limited duration of operations and early start date we are requesting an STA to operate the equipment specified in the application.

Authority is requested for only limited operation of the equipment. Specifically, operation of the facilities will occur primarily weekdays between 8:00 am- 6:00 pm (ET). It is expected that on each day, transmissions will not exceed 4 hours in cumulative duration. In addition, during those hours, operation will be sporadic, not continuous. In fact, there may be extended periods of non-operation during the authorized period.

Purpose of Operation

Please explain the purpose of operation:

The proposed experiment supports work being sponsored by DARPA and is in support of evaluating low cost radars. The active calibration unit will help support the calibration during the testing of these low cost radars.

Requested Period of Operation

Operation Start Date: 8/01/2015

Operation End Date: 07/31/2016

Manufacturer

List below transmitting equipment to be installed (if experimental, so state) if additional rows are required, please submit equipment list as an exhibit:

Manufacturer : MIT Lincoln Laboratory

Model Number: -

No. Of Units: 1

Experimental: Yes

Station Location**City:** Newport**State:** New York**Lat:** 43.160 deg**Lon:** -75.055 deg**Mobile:****Radius of operation:** 2 km

Frequency MHz	Mean Power/ERP	Bandwidth	Emission Designation	Modulating Signal
9,660	20 dBw	680 MHz	800MF3NXF (Radar)	Analog FM

Table 1

Authorized person filing form: Joseph Fischetti