

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

EXPERIMENTAL
(Nature of Service)

WQ9XVU
(Call Sign)

XT FX
(Class of Station)

0982-EX-ST-2020
(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 goal of the MIT Lincoln Laboratory/AFRL testing is to improve HF System performance.

Station Locations

(1) Key West, FL - NL 24-34-31; WL 81-40-31

Frequency Information

Key West, FL - NL 24-34-31; WL 81-40-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.45-8.27 MHz	FX	100KF8N 100KG8N 5K00F8N 5K00G8N	16 W (ERP)	0.001 %
8.434-8.71 MHz	FX	100KF8N 100KG8N 5K00F8N	16 W (ERP)	0.001 %

This authorization effective August 10, 2020 and
will expire 3:00 A.M. EST February 11, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Key West, FL - NL 24-34-31; WL 81-40-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.434-8.71 MHz	FX	5K00G8N	16 W (ERP)	0.001 %
8.71-8.814 MHz	FX	100KF8N 100KG8N 5K00F8N 5K00G8N	16 W (ERP)	0.001 %
8.966-9.4 MHz	FX	5K00G8N 5K00F8N 100KG8N 100KF8N	16 W (ERP)	0.001 %
9.9-9.994 MHz	FX	100KF8N 100KG8N 5K00F8N 5K00G8N	16 W (ERP)	0.001 %
10.101-11.274 MHz	FX	100KG8N 5K00F8N 5K00G8N	16 W (ERP)	0.001 %
11.401-11.6 MHz	FX	100KF8N 100KG8N 5K00F8N 5K00G8N	16 W (ERP)	0.001 %
12.1-13.259 MHz	FX	100KF8N	16 W (ERP)	0.001 %

Frequency Information

Key West, FL - NL 24-34-31; WL 81-40-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12.1-13.259 MHz	FX	100KG8N 5K00F8N 5K00G8N	16 W (ERP)	0.001 %
13.411-13.57 MHz	FX	100KF8N 100KG8N 5K00F8N 5K00G8N	16 W (ERP)	0.001 %
13.87-14.989 MHz	FX	100KF8N 100KG8N 5K00F8N 5K00G8N	16 W (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 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) 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.
- (4) MIT Lincoln Laboratory must notch out the following:
 - a. (+/- 1.4 kHz) 7630.5 kHz, 7669.5 kHz, 7736 kHz, 7743 kHz, 7747 kHz, 7775 kHz, 7793 kHz, 7821 kHz, 8765.4 kHz, 8981.4 kHz, 8984.4 kHz, 9035.4 kHz, 9038.4 kHz, 10540 kHz, 10774 kHz, 10810 kHz, 10891 kHz, 10918 kHz, 11197.4 kHz, 11200.4 kHz, 11203.4 kHz, 12291.4 kHz, 12520 kHz, 1257 kHz, 13219.4 kHz, 13222.4 kHz, 13434 kHz, 13493 kHz, 13496 kHz, 14428.5 kHz, 14461 kHz
 - b. (+/- 1.5 kHz) 7577 kHz, 7617 kHz, 7626 kHz, 7754.5 kHz, 7845 kHz, 7884 kHz, 7909 kHz, 8459 kHz, 8503.9 kHz, 8682 kHz, 9110 kHz, 9169 kHz, 9291 kHz, 9332 kHz, 10297.5 kHz, 10338.5 kHz, 10354.5 kHz, 10378 kHz, 10675 kHz, 10759 kHz, 10788 kHz, 10929.5 kHz, 10935.5 kHz, 11024 kHz, 11045 kHz, 11157.5 kHz

Special Conditions:

- (5) In the band 10.101 - 11.274 MHz, MIT Lincoln Laboratory may not operate with the 100KF8N emission in order to protect federal operations.