

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WA9XMJ

(Call Sign)

1168-EX-ST-2026

(File Number)

NAME Massachusetts Institute of Technology Lincoln Laboratory (MITLL)

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 testing is to improve HF System performance.

Station Locations

(1) Christmas Valley (LAKE), OR - NL 43-16-05; WL 120-42-32

Frequency Information

Christmas Valley (LAKE), OR - NL 43-16-05; WL 120-42-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2505-2850 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
3025-3400 kHz	FX	3K00G1D	8000 W (ERP)	0.001 %

This authorization effective July 10, 2026 and
will expire 3:00 A.M. EST January 08, 2027

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Christmas Valley (LAKE), OR - NL 43-16-05; WL 120-42-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3025-3400 kHz	FX	98K0F7D 98K0F7E 49K0D1D 24K0G1D 24K0D1D 98K0F7N	8000 W (ERP)	0.001 %
3500-4100 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
4210-4650 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
4700-4995 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %

Frequency Information

Christmas Valley (LAKE), OR - NL 43-16-05; WL 120-42-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5005-5450 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
5680-5900 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
6320-6525 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
6685-7200 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D	8000 W (ERP)	0.001 %

Frequency Information

Christmas Valley (LAKE), OR - NL 43-16-05; WL 120-42-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6685-7200 kHz	FX	3K00G1D	8000 W (ERP)	0.001 %
7450-8250 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
8970-9400 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
9900-9995 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
10101-11275 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D	8000 W (ERP)	0.001 %

Frequency Information

Christmas Valley (LAKE), OR - NL 43-16-05; WL 120-42-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10101-11275 kHz	FX	98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
11400-11600 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
12100-12200 kHz	FX	3K00G1D 98K0F7D 98K0F7E 49K0D1D 24K0G1D 24K0D1D 98K0F7N	8000 W (ERP)	0.001 %
13500-13570 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
13870-14990 kHz	FX	3K00G1D 98K0F7D	8000 W (ERP)	0.001 %

Frequency Information

Christmas Valley (LAKE), OR - NL 43-16-05; WL 120-42-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13870-14990 kHz	FX	98K0F7E 49K0D1D 24K0G1D 24K0D1D 98K0F7N	8000 W (ERP)	0.001 %
15010-15100 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
15800-16000 kHz	FX	3K00G1D 98K0F7D 98K0F7E 49K0D1D 24K0G1D 24K0D1D 98K0F7N	8000 W (ERP)	0.001 %
16000-17480 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %

Frequency Information

Christmas Valley (LAKE), OR - NL 43-16-05; WL 120-42-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
17970-18900 kHz	FX	3K00G1D 98K0F7D 98K0F7E 49K0D1D 24K0G1D 24K0D1D 98K0F7N	8000 W (ERP)	0.001 %
19020-19995 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 W (ERP)	0.001 %
20010-21450 kHz	FX	98K0F7N 24K0D1D 24K0G1D 49K0D1D 98K0F7E 98K0F7D 3K00G1D	8000 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.

Special Conditions:

- (3) Massachusetts Institute of Technology Lincoln Laboratory (MITLL) must notch out the following:
- a. (+/- 50 Hz) 8086 kHz, 8135 kHz, 15804 kHz
 - b. (+/- 62 Hz) 14525 kHz, 16025 kHz, 18612 kHz
 - c. (+/- 300 Hz) 10642.5 kHz, 15873.7 kHz, 20011 kHz, 20021 kHz
 - d. (+/- 425 Hz) 7719 kHz, 7887.5 kHz, 9297 kHz, 11090 kHz, 11105 kHz, 11106 kHz, 11423 kHz, 14410 kHz, 14500 kHz, 14649 kHz, 14989 kHz, 16043 kHz, 16125 kHz, 16306 kHz, 17450 kHz, 17467 kHz, 18055 kHz, 18169 kHz, 18248.5 kHz, 18250 kHz (one of two entries), 18306.5 kHz, 18430 kHz, 19146 kHz, 19458 kHz, 19900 kHz
 - e. (+/- 650 Hz) 11166 kHz, 19210 kHz
 - f. (+/- 1.05 kHz) 16255 kHz
 - g. (+/- 1.4 kHz) 3429.4 kHz, 4053.6 kHz, 4056.4 kHz, 4623.6 kHz, 4626.4 kHz, 5861.4 kHz, 6821 kHz, 6868.6 kHz, 6871.4 kHz, 7473.6 kHz, 7476.4 kHz, 7609.6 kHz, 7612.4 kHz, 8123.6 kHz, 8126.4 kHz, 9912.6 kHz, 9915.4 kHz, 11503 kHz, 11635.6 kHz, 11638.4 kHz, 13455.6 kHz, 15849.6 kHz, 15852.4 kHz, 19408.6 kHz, 19411.4 kHz, 20853.4 kHz
 - h. (+/- 1.5 kHz) 3202.5 kHz, 3275.5, 3300 kHz, 3341.5 kHz, 3342.5 kHz, 3383.5 kHz, 3389.5 kHz, 4415.4 kHz, 4781.5 kHz, 4900.5 kHz, 5011.5 kHz, 5148.5 kHz, 5212.5 kHz, 5750 kHz, 5856 kHz, 6928 kHz, 7700 kHz, 10204 kHz, 10494.5 kHz, 10640 kHz, 14355 kHz, 14373 kHz, 14501.5 kHz, 16275 kHz, 20028.5 kHz, 20469.5 kHz, 20920 kHz
 - i. (+/- 1.65 kHz) 3199 kHz, 3223 kHz, 4827 kHz, 4916 kHz, 4919 kHz, 9150.5 kHz, 9252 kHz, 10597 kHz, 14813 kHz, 15927 kHz, 16155 kHz, 20133 kHz
 - j. (+/- 1.7 kHz) 3235 kHz, 6904 kHz, 8060 kHz, 9154 kHz, 10735 kHz, 10922.5 kHz, 11170 kHz, 13505 kHz, 15995.7 kHz, 16242 kHz, 16285 kHz, 18250 kHz (second entry), 20527.5 kHz, 20812 kHz
 - k. (+/- 3 kHz) 4610 kHz, 4979 kHz, 5837 kHz, 7870 kHz, 10424 kHz, 11448 kHz, 12109 kHz, 16011 kHz, 18475 kHz, 20361 kHz
- (4) Stop Buzzer Point of Contact: Mark Besch, 339-223-0849
- (5) Operation is prohibited on the following frequencies:
5900kHz, 7200kHz, 7450kHz, 9400kHz, 9900 kHz, 11600kHz, 12100kHz, 13570kHz, 13870kHz, 15100kHz, 15800kHz, 17480 kHz, 18900kHz, 19020 kHz, 21450kHz, 21850kHz and 26100kHz.
- (6) 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.

Special Conditions:

(7) Operation is prohibited on the following frequencies:

- 2326 - 2327.4 kHz
- 2411 - 2412.4 kHz
- 2414 - 2415.4 kHz
- 2419 - 2420.4 kHz
- 2422 - 2423.4 kHz
- 2439 - 2400.4 kHz
- 2463 -2464.4 kHz
- 2466 -2467.4 kHz
- 2471 - 2472.4 kHz
- 2474 - 2475.4 kHz
- 2487 -2488.4 kHz
- 2511 - 2512.4 kHz
- 2535 - 2535.4 kHz
- 2569 - 2570.4 kHz
- 2587 - 2589.4 kHz
- 2801 -2802.4 kHz
- 2804 -2805.4 kHz
- 2812 -2813.4 kHz
- 5135 -5136.4 kHz
- 5140 -5141.4 kHz
- 5192 -5193.4 kHz
- 5195 -5196.4 kHz
- 7477 -7478.4 kHz
- 7480 -7481.4 kHz
- 7802 - 7803.4 kHz
- 7805 - 7806.4 kHz
- 7932 -7933.4 kHz
- 7935 -7936.4 kHz