

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WN9XUM

(Call Sign)

2108-EX-ST-2018

(File Number)

NAME The MITRE Corporation

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 AFRL testing is to improve HF System performance.

Station Locations

- (1) Tampa (HILLSBOROUGH), FL - NL 27-50-15; WL 82-29-35
- (2) Malabar (BREVARD), FL - NL 28-01-31; WL 80-41-04
- (3) Las Cruces (DONA ANA), NM - NL 32-20-26; WL 106-24-40

Frequency Information

Tampa (HILLSBOROUGH), FL - NL 27-50-15; WL 82-29-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4-4.649 MHz	FX	96K0D7N 50K0D7N	7 W (ERP)	0.001 %
4.701-4.994 MHz	FX	96K0D7N 50K0D7N	7 W (ERP)	0.001 %

This authorization effective February 12, 2019 and
will expire 3:00 A.M. EST July 13, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Tampa (HILLSBOROUGH), FL - NL 27-50-15; WL 82-29-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.006-5.449 MHz	FX	96K0D7N 50K0D7N	7 W (ERP)	0.001 %
5.681-5.9 MHz	FX	96K0D7N 50K0D7N	7 W (ERP)	0.001 %
6.2-6.524 MHz	FX	96K0D7N 50K0D7N	7 W (ERP)	0.001 %
6.686-7.3 MHz	FX	96K0D7N 50K0D7N	7 W (ERP)	0.001 %
7.4-8.814 MHz	FX	96K0D7N 50K0D7N	7 W (ERP)	0.001 %
8.966-9.4 MHz	FX	50K0D7N 96K0D7N	7 W (ERP)	0.001 %
10.101-11.274 MHz	FX	96K0D7N 50K0D7N	7 W (ERP)	0.001 %
11.401-11.6 MHz	FX	50K0D7N 96K0D7N	7 W (ERP)	0.001 %

Frequency Information

Tampa (HILLSBOROUGH), FL - NL 27-50-15; WL 82-29-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12.1-13.259 MHz	FX	96K0D7N 50K0D7N	7 W (ERP)	0.001 %

Malabar (BREVARD), FL - NL 28-01-31; WL 80-41-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4-4.649 MHz	FX	98K0D7N 50K0D7N	7 W (ERP)	0.001 %
4.701-4.994 MHz	FX	98K0D7N 50K0D7N	7 W (ERP)	0.001 %
5.006-5.449 MHz	FX	98K0D7N 50K0D7N	7 W (ERP)	0.001 %
5.681-5.9 MHz	FX	98K0D7N 50K0D7N	7 W (ERP)	0.001 %
6.2-6.524 MHz	FX	98K0D7N 50K0D7N	7 W (ERP)	0.001 %
6.686-7.3 MHz	FX	98K0D7N 50K0D7N	7 W (ERP)	0.001 %

Frequency Information

Malabar (BREVARD), FL - NL 28-01-31; WL 80-41-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.4-8.814 MHz	FX	98K0D7N 50K0D7N	7 W (ERP)	0.001 %
8.966-9.4 MHz	FX	98K0D7N 50K0D7N	7 W (ERP)	0.001 %
10.101-11.274 MHz	FX	98K0D7N 50K0D7N	7 W (ERP)	0.001 %
11.401-11.6 MHz	FX	98K0D7N 50K0D7N	7 W (ERP)	0.001 %
12.1-13.259 MHz	FX	98K0D7N 50K0D7N	7 W (ERP)	0.001 %

Las Cruces (DONA ANA), NM - NL 32-20-26; WL 106-24-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4-4.649 MHz	FX	98K0D7N	70 W (ERP)	0.001 %
4.701-4.994 MHz	FX	98K0D7N	70 W (ERP)	0.001 %

Frequency Information

Las Cruces (DONA ANA), NM - NL 32-20-26; WL 106-24-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.006-5.449 MHz	FX	98K0D7N	70 W (ERP)	0.001 %
5.681-5.9 MHz	FX	98K0D7N	70 W (ERP)	0.001 %
6.2-6.524 MHz	FX	98K0D7N	70 W (ERP)	0.001 %
6.686-7.3 MHz	FX	98K0D7N	70 W (ERP)	0.001 %
7.4-8.814 MHz	FX	98K0D7N	70 W (ERP)	0.001 %
8.966-9.4 MHz	FX	98K0D7N	70 W (ERP)	0.001 %
10.101-11.274 MHz	FX	98K0D7N	70 W (ERP)	0.001 %
11.401-11.6 MHz	FX	98K0D7N	70 W (ERP)	0.001 %
12.1-13.259 MHz	FX	98K0D7N	70 W (ERP)	0.001 %

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

- (3) Operation is prohibited in the following bands:
5.9-6.2 MHz, 7.3-7.4 MHz, 9.4-9.9 MHz, 11.6-12.1 MHz.
- (4) 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.
- (5) The MITRE Corporation must notch out the following (+/- 1.4 kHz): 4509.8 kHz, 4731.4 kHz, 4734.4 kHz, 4763.3 kHz, 4994.5 kHz, 5074.3 kHz, 5321.4 kHz, 5423.9 kHz, 5681.4 kHz, 5694.4 kHz, 5697.4 kHz, 5700.4 kHz, 5928.5 kHz, 6710.4 kHz, 6743.4 kHz, 6864.5 kHz, 6925 kHz, 6957.8 kHz, 7352 kHz, 7531.8 kHz, 7630.5 kHz, 7747 kHz, 7821 kHz, 8981.4 kHz, 8984.4 kHz, 9035.4 kHz, 9038.4 kHz, 10540 kHz, 10918 kHz, 11197.4 kHz, 11200.4 kHz, 11203.4 kHz, 13219.4 kHz, 13222.4 kHz.
- (6) The MITRE Corporation should be aware that since the Las Cruces, NM- NL 32-20-26; WL 106-24-40, is actually on White Sands Missile Range (WSMR) operations must be scheduled as a WSMR Range mission, through the WSMR Range sponsor. Final authorization to radiate is contingent upon successful scheduling and de-confliction of spectrum, and airspace, if applicable, with other area operations.