Eliot Lebsack, 202 Burilington Road, Bedford, MA 01730,

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL	WP9XET
(Nature of Service)	(Call Sign)
XT FX	1570-EX-ST-2019
(Class of Station)	(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 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 September 06, 2019 and will expire 3:00 A.M. EST February 02, 2020

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	50K0D7N 96K0D7N	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	50K0D7N 96K0D7N	7 W (ERP)	0.001 %
8.966-9.4 MHz	FX	96K0D7N 50K0D7N	7 W (ERP)	0.001 %
10.101-11.274 MHz	FX	96K0D7N 50K0D7N	7 W (ERP)	0.001 %
11.401-11.6 MHz	FX	96K0D7N 50K0D7N	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		7 W (ERP)	0.001 %
		96K0D7N		
		50K0D7N		

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		7 W (ERP)	0.001 %
		98K0D7N		
		50K0D7N		
4.701-4.994 MHz	FX		7 W (ERP)	0.001 %
		98K0D7N		
		50K0D7N		
5.006-5.449 MHz	FX		7 W (ERP)	0.001 %
		98K0D7N		
		50K0D7N		
5.681-5.9 MHz	FX		7 W (ERP)	0.001 %
		98K0D7N		
		50K0D7N		
6.2-6.524 MHz	FX		7 W (ERP)	0.001 %
		98K0D7N		
		50K0D7N		
6.686-7.3 MHz	FX		7 W (ERP)	0.001 %
		98K0D7N		
		50K0D7N		

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) 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) 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) All operations at Las Cruces, DONA ANA,NM must be scheduled as a White Sands Missile Range (WSMR) range mission through the WSMR Range Sponsor at least 96 hours prior to use. Final authority to radiate shall be contingent upon successful scheduling, and de-confliction, of spectrum, with other regional operations.

(5) At the location Tampa, Malabar, BREVARD,FL, MITRE Corporation must also notch out the following:
7491 kHz (+/- 1.35 kHz)

(6) At the location Tampa, HILLSBOROUGH,FL, MITRE Corporation must notch out the following:
4536 kHz (+/- 1.35 Khz)
6850 kHz (+/- 1.5 Khz)
6786 kHz (+/- 1.35 Khz)
6001 kHz (+/- 1.35 Khz)
7952 kHz (+/- 1.5 Khz)
7989 kHz (+/- 1.35 Khz)
8106 kHz (+/- 1.35 Khz)
10557 kHz (+/- 1.35 Khz)
10702 kHz (+/- 1.35 Khz)
12193 kHz (+/- 1.5 Khz)

Special Conditions:

(7) MITRE Corporation must notch out the following:

4572.5 kHz (+/-1.4 kHz)
4731.4 kHz (+/-1.4 kHz)
4734.4 kHz (+/-1.4 kHz)
4821 kHz (+/-1.4 kHz)
4902 kHz (+/-1.4 kHz)
4965 kHz (+/-1.4 kHz)
5108 kHz (+/-1.4 kHz)
5694.4 kHz (+/-1.4 kHz)
5697.4 kHz (+/-1.4 kHz)
5700.4 kHz (+/-1.4 kHz)
6710.4 kHz (+/-1.4 kHz)
6743.4 kHz (+/-1.4 kHz)
7630.5 kHz (+/-1.4 kHz)
7669.5 kHz (+/-1.4 kHz)
7736 kHz (+/-1.4 kHz)
7743 kHz (+/-1.4 kHz)
7747 kHz (+/-1.4 kHz)
7775 kHz (+/-1.4 kHz)
7793 kHz (+/-1.4 kHz)
7821 kHz (+/-1.4 kHz)
8981.4 kHz (+/-1.4 kHz)
8984.4 kHz (+/-1.4 kHz)
9035.4 kHz (+/-1.4 kHz)
9038.4 kHz (+/-1.4 kHz)
10540 kHz (+/-1.4 kHz)
10810 kHz (+/-1.4 kHz)
10891 kHz (+/-1.4 kHz)
10918 kHz (+/-1.4 kHz)
11197.4 kHz (+/-1.4 kHz)
11200.4 kHz (+/-1.4 kHz)
11203.4 kHz (+/-1.4 kHz)
13219.4 kHz (+/-1.4 kHz)
13222.4 kHz (+/-1.4 kHz)
13434 kHz (+/-1.4 kHz)
13496 kHz (+/-1.4 kHz)
4049.9 kHz (+/-1.4 kHz)
4050 kHz (+/-1.4 kHz)
4509.8 kHz (+/-1.4 kHz)
4509.8 kHz (+/-1.4 kHz)
4509.8 kHz (+/-1.4 kHz)
4763.3 kHz (+/-1.4 kHz)
4763.3 kHz (+/-1.4 kHz)
4763.3 kHz (+/-1.4 kHz)
4994.5 kHz (+/-1.4 kHz)
4994.5 kHz (+/-1.4 kHz)
4994.5 kHz (+/-1.4 kHz)
5074.3 kHz (+/-1.4 kHz)
5074.3 kHz (+/-1.4 kHz)
5074.3 kHz (+/-1.4 kHz)
5423.9 kHz (+/-1.4 kHz)
5423.9 kHz (+/-1.4 kHz)

Specia5423.9 kHz (+/-1.4 kHz)
5928.5 kHz (+/-1.4 kHz)
5928.5 kHz (+/-1.4 kHz)
5928.5 kHz (+/-1.4 kHz)
6864.5 kHz (+/-1.4 kHz)
6864.5 kHz (+/-1.4 kHz)
6864.5 kHz (+/-1.4 kHz)
6925 kHz (+/-1.4 kHz)
6925 kHz (+/-1.4 kHz)
6925 kHz (+/-1.4 kHz)
6957.8 kHz (+/-1.4 kHz)
6957.8 kHz (+/-1.4 kHz)
6957.8 kHz (+/-1.4 kHz)
7352 kHz (+/-1.4 kHz)
7352 kHz (+/-1.4 kHz)
7352 kHz (+/-1.4 kHz)
7378.9 kHz (+/-1.4 kHz)
7530 kHz (+/-1.4 kHz)
7531.8 kHz (+/-1.4 kHz)
7531.8 kHz (+/-1.4 kHz)
7531.8 kHz (+/-1.4 kHz)
7747 kHz (+/-1.4 kHz)
7747 kHz (+/-1.4 kHz)
7747 kHz (+/-1.4 kHz)
9127 kHz (+/-1.4 kHz)
9279.9 kHz (+/-1.4 kHz)
11436 kHz (+/-1.4 kHz)
11514.9 kHz (+/-1.4 kHz)
11515 kHz (+/-1.4 kHz)
12150 kHz (+/-1.4 kHz)
5315 kHz (+/-1.4 kHz)
4126.4 kHz (+/-1.4 kHz)
12291.4 kHz (+/-1.4 kHz)
12520 kHz (+/-1.4 kHz)
12577 kHz (+/-1.4 kHz)
4177.5 kHz (+/-1.4 kHz)
4207.5 kHz (+/-1.4 kHz)
5681.4 kHz (+/-1.4 kHz)
6216.4 kHz (+/-1.4 kHz)
6268 kHz (+/-1.4 kHz)
6312 kHz (+/-1.4 kHz)
6517.4 kHz (+/-1.4 kHz)
8292.4 kHz (+/-1.4 kHz)
8414.5 kHz (+/-1.4 kHz)
10540 kHz (+/-1.4 kHz)
12354.4 kHz (+/-1.4 kHz)
12357.4 kHz (+/-1.4 kHz)
12360.4 kHz (+/-1.4 kHz)
12363.4 kHz (+/-1.4 kHz)
12366.4 kHz (+/-1.4 kHz)
12579 kHz (+/-1.4 kHz)
12718.5 kHz (+/-1.4 kHz)
12754 kHz (+/-1.4 kHz)

Speci12786 kHz (+/-1.4 kHz)
12889.5 kHz (+/-1.4 kHz)
13020 kHz (+/-1.4 kHz)
13090.4 kHz (+/-1.4 kHz)
13114.4 kHz (+/-1.4 kHz)
13141.4 kHz (+/-1.4 kHz)
4147.4 kHz (+/-1.4 kHz)
4150.4 kHz (+/-1.4 kHz)
4210 kHz (+/-1.4 kHz)
4245 kHz (+/-1.4 kHz)
4316 kHz (+/-1.4 kHz)
4337 kHz (+/-1.4 kHz)
4355.4 kHz (+/-1.4 kHz)
4376.4 kHz (+/-1.4 kHz)
4418.4 kHz (+/-1.4 kHz)
4427.4 kHz (+/-1.4 kHz)
4821 kHz (+/-1.4 kHz)
5321.4 kHz (+/-1.4 kHz)
5321.4 kHz (+/-1.4 kHz)
5423.9 kHz (+/-1.4 kHz)
5885 kHz (+/-1.4 kHz)
6225.4 kHz (+/-1.4 kHz)
6228.4 kHz (+/-1.4 kHz)
6231.4 kHz (+/-1.4 kHz)
6314 kHz (+/-1.4 kHz)
6344 kHz (+/-1.4 kHz)
6383 kHz (+/-1.4 kHz)
6467 kHz (+/-1.4 kHz)
6477.5 kHz (+/-1.4 kHz)
6491.5 kHz (+/-1.4 kHz)
6502.4 kHz (+/-1.4 kHz)
6508.4 kHz (+/-1.4 kHz)
6523.4 kHz (+/-1.4 kHz)
8295.4 kHz (+/-1.4 kHz)
8298.4 kHz (+/-1.4 kHz)
8416.5 kHz (+/-1.4 kHz)
8441 kHz (+/-1.4 kHz)
8457 kHz (+/-1.4 kHz)
8465 kHz (+/-1.4 kHz)
8471 kHz (+/-1.4 kHz)
8650 kHz (+/-1.4 kHz)
8682 kHz (+/-1.4 kHz)
8765.4 kHz (+/-1.4 kHz)
8774.4 kHz (+/-1.4 kHz)
8813.4 kHz (+/-1.4 kHz)