

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WO9XHT

(Call Sign)

0658-EX-ST-2019

(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 communications performance through irregular ionospheres and to provide ionospheric channel information.

Station Locations

(1) water island, VI - NL 18-19-08; WL 64-57-27

Frequency Information

water island, VI - NL 18-19-08; WL 64-57-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.5-4.1 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 W (ERP)	0.001 %
4.21-4.65 MHz	FX	98K0F7N 3K00G7E	125 W (ERP)	0.001 %

This authorization effective June 01, 2019 and
will expire 3:00 A.M. EST July 02, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

water island, VI - NL 18-19-08; WL 64-57-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.21-4.65 MHz	FX	98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 W (ERP)	0.001 %
4.7-4.995 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 W (ERP)	0.001 %
5.005-5.899 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 W (ERP)	0.001 %
6.32-7.2 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 W (ERP)	0.001 %
7.451-8.25 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E	125 W (ERP)	0.001 %

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.451-8.25 MHz	FX	24K0F7D 49K0F7D	125 W (ERP)	0.001 %
8.97-9.4 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 W (ERP)	0.001 %
9.9-9.995 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 W (ERP)	0.001 %
10.101-11.275 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 W (ERP)	0.001 %
11.4-11.6 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D	125 W (ERP)	0.001 %

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
11.4-11.6 MHz	FX	49K0F7D	125 W (ERP)	0.001 %
12.1-12.2 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 W (ERP)	0.001 %
13.5-13.57 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 W (ERP)	0.001 %
13.87-14.99 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 W (ERP)	0.001 %
15.01-15.1 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D	125 W (ERP)	0.001 %

Frequency Information

water island, VI - NL 18-19-08; WL 64-57-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.01-15.1 MHz	FX	49K0F7D	125 W (ERP)	0.001 %
15.8-16 MHz	FX	98K0F7N 3K00G7E 98K0F7E 24K0G7E 24K0F7D 49K0F7D	125 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) The MITRE Corporation must notch out the following:

a. Notch out the following bands:

5.45-5.68 MHz

6.525-6.685 MHz.

b. Notch out the following spot frequencies:

4.05 MHz (+/- 1.4 kHz)

4.232 MHz (+/- 1.4 kHz)

4.245 MHz (+/- 1.4 kHz)

4.3554 MHz (+/- 1.4 kHz)

4.3764 MHz (+/- 1.4 kHz)

4.4184 MHz (+/- 1.4 kHz)

4.4274 MHz (+/- 1.4 kHz)

4.5098 MHz (+/- 1.4 kHz)

4.5724 MHz (+/- 1.4 kHz)

4.5725 MHz (+/- 1.4 kHz)

4.7314 MHz (+/- 1.4 kHz)

4.7344 MHz (+/- 1.4 kHz)

4.7633 MHz (+/- 1.4 kHz)

4.821 MHz (+/- 1.4 kHz)

4.902 MHz (+/- 1.4 kHz)

4.965 MHz (+/- 1.4 kHz)

4.9945 MHz (+/- 1.4 kHz)

5.0743 MHz (+/- 1.4 kHz)

5.3214 MHz (+/- 1.4 kHz)

5.4239 MHz (+/- 1.4 kHz)

5.6814 MHz (+/- 1.4 kHz)

5.6944 MHz (+/- 1.4 kHz)

5.6974 MHz (+/- 1.4 kHz)

5.7004 MHz (+/- 1.4 kHz)

5.885 MHz (+/- 1.4 kHz)

6.5024 MHz (+/- 1.4 kHz)

6.5084 MHz (+/- 1.4 kHz)

6.5174 MHz (+/- 1.4 kHz)

6.5234 MHz (+/- 1.4 kHz)

6.7104 MHz (+/- 1.4 kHz)

6.7434 MHz (+/- 1.4 kHz)

6.8645 MHz (+/- 1.4 kHz)

6.925 MHz (+/- 1.4 kHz)

6.9578 MHz (+/- 1.4 kHz)

7.5084 MHz (+/- 1.4 kHz)

7.53 MHz (+/- 1.4 kHz)

7.5318 MHz (+/- 1.4 kHz)

7.6305 MHz (+/- 1.4 kHz)

7.6695 MHz (+/- 1.4 kHz)

7.736 MHz (+/- 1.4 kHz)

7.743 MHz (+/- 1.4 kHz)

7.747 MHz (+/- 1.4 kHz)

7.775 MHz (+/- 1.4 kHz)

7.793 MHz (+/- 1.4 kHz)

7.821 MHz (+/- 1.4 kHz)

Special
8.9814 MHz (+/- 1.4 kHz)
8.9844 MHz (+/- 1.4 kHz)
9.0354 MHz (+/- 1.4 kHz)
9.0384 MHz (+/- 1.4 kHz)
9.127 MHz (+/- 1.4 kHz)
9.3814 MHz (+/- 1.4 kHz)
10.54 MHz (+/- 1.4 kHz)
10.81 MHz (+/- 1.4 kHz)
10.891 MHz (+/- 1.4 kHz)
10.918 MHz (+/- 1.4 kHz)
11.1974 MHz (+/- 1.4 kHz)
11.2004 MHz (+/- 1.4 kHz)
11.2034 MHz (+/- 1.4 kHz)
11.4 kHz36 MHz (+/- 1.4 kHz)
11.515 MHz (+/- 1.4 kHz)
12.15 MHz (+/- 1.4 kHz)
12.2434 MHz (+/- 1.4 kHz)
12.2674 MHz (+/- 1.4 kHz)
12.2914 MHz (+/- 1.4 kHz)
12.2944 MHz (+/- 1.4 kHz)
12.3544 MHz (+/- 1.4 kHz)
12.3574 MHz (+/- 1.4 kHz)
12.3604 MHz (+/- 1.4 kHz)
12.3634 MHz (+/- 1.4 kHz)
12.3664 MHz (+/- 1.4 kHz)
13.0904 MHz (+/- 1.4 kHz)
13.1144 MHz (+/- 1.4 kHz)
13.1414 MHz (+/- 1.4 kHz)
13.434 MHz (+/- 1.4 kHz)
13.496 MHz (+/- 1.4 kHz)
14.4285 MHz (+/- 1.4 kHz)
14.461 MHz (+/- 1.4 kHz)
14.953 MHz (+/- 1.4 kHz)
15.0834 MHz (+/- 1.4 kHz)
15.0864 MHz (+/- 1.4 kHz)
15.0894 MHz (+/- 1.4 kHz)