

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WS9XSS

(Call Sign)

1407-EX-ST-2021

(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 proposed operation is airborne testing of a prototype HF transceiver as a demonstration of proof of concept

Station Locations

- (1) MOBILE: Area southeast of St. Louis, MO, within 150 km, centered around NL 37-51-56; WL 89-33-30
- (2) MOBILE: Area east of Temple, TX, within 100 km, centered around NL 31-19-58; WL 96-37-01

Frequency Information

MOBILE: Area southeast of St. Louis, MO, within 150 km, centered around NL 37-51-56; WL 89-33-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4210-4650 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
5005-5450 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %

This authorization effective September 27, 2021 and
will expire 3:00 A.M. EST December 02, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Area southeast of St. Louis, MO, within 150 km, centered around NL 37-51-56; WL 89-33-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5680-5900 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
6320-6525 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
6685-7200 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
7450-8200 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
8970-9400 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
10100-11275 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
11400-11600 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
13870-14990 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %

Frequency Information

MOBILE: Area southeast of St. Louis, MO, within 150 km, centered around NL 37-51-56; WL 89-33-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15010-15100 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
15800-16000 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %

MOBILE: Area east of Temple, TX, within 100 km, centered around NL 31-19-58; WL 96-37-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4210-4650 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
5005-5450 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
5680-5900 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
6320-6525 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
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Frequency Information

MOBILE: Area east of Temple, TX, within 100 km, centered around NL 31-19-58; WL 96-37-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7450-8200 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
8970-9400 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
10100-11275 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
11400-11600 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
13870-14990 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
15010-15100 kHz	MO	3K00J1D 6K00J1D	200 W (ERP)	0.001 %
15800-16000 kHz	MO	6K00J1D 3K00J1D	200 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) The MITRE Corporation must notch out the following:
- a. (+/- 1.4 kHz) 4572.5 kHz, 4576.4 kHz, 4902 kHz, 4965 kHz, 5107 kHz, 5108 kHz, 5108.5 kHz, 5110 kHz, 5215.5 kHz, 5217 kHz, 5221.5 kHz, 5223 kHz, 5224.5 kHz, 5264.5 kHz, 5266 kHz, 5267.5 kHz, 5270.5 kHz, 5272 kHz, 5418 kHz, 5419.5 kHz, 5421 kHz, 5681.4 kHz, 5694.4 kHz, 5697.4 kHz, 5700.4 kHz, 5885 kHz, 5941 kHz, 5942.5 kHz, 6502.4 kHz, 6517.4 kHz, 6710.4 kHz, 6743.4 kHz, 6961 kHz, 7577 kHz, 7617 kHz, 7626 kHz, 7630.5 kHz, 7669.5 kHz, 7736 kHz, 7743 kHz, 7747 kHz, 7754.5 kHz, 7775 kHz, 7793 kHz, 7821 kHz, 7845 kHz, 7884 kHz, 7909 kHz, 8981.4 kHz, 8984.4 kHz, 9035.4 kHz, 9038.4 kHz, 9110 kHz, 9169 kHz, 9291 kHz, 9332 kHz, 10297.5 kHz, 10338.5 kHz, 10354.5 kHz, 10378 kHz, 10540 kHz, 10675 kHz, 10759 kHz, 10774 kHz, 10788 kHz, 10810 kHz, 10891 kHz, 10918 kHz, 10929.5 kHz, 10935.5 kHz, 11024 kHz, 11045 kHz, 11157.5 kHz, 11197.4 kHz, 11200.4 kHz, 11203.4 kHz, 14428.5 kHz, 14548.4 kHz, 14461 kHz, 15083.4 kHz, 15086.4 kHz, 15089.4 kHz
- b. (+/- 1.5 kHz) 4592.5 kHz, 4605.5 kHz, 5007.5 kHz, 5447.5 kHz, 6777.4 kHz, 6777.5 kHz, 7603.5 kHz, 7631.5 kHz, 9048.5 kHz, 10505.5 kHz, 11156.4 kHz, 11156.5 kHz, 11403.5 kHz, 14439.5 kHz
- (4) The designated point-of-contact to terminate transmissions if interference occurs is Eliot Lebsack at 781-271-5830.