

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

EXPERIMENTAL

(Nature of Service)

WS9XHV

(Call Sign)

XT MO

(Class of Station)

0901-EX-ST-2021

(File Number)

NAME Terrafugia, Inc.

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:

Testing of UAS device communications system for product development purposes at six discrete locations in Nevada and Massachusetts.

Station Locations

- (1) MOBILE: Jean Dry Lake Bed, Jean, Nevada, within 16 km, centered around NL 35-47-14; WL 115-15-24
- (2) MOBILE: Pahrump Valley, Nevada, within 16 km, centered around NL 36-04-17; WL 115-46-10
- (3) MOBILE: Sandy Valley Dry Lake Bed, Nevada, within 16 km, centered around NL 35-43-17; WL 115-35-04
- (4) MOBILE: Crow Island, MA, within 16 km, centered around NL 42-25-01; WL 71-29-40
- (5) MOBILE: Brookline, NH, within 16 km, centered around NL 42-44-39; WL 71-42-27
- (6) MOBILE: Pepperell, MA, within 16 km, centered around NL 42-41-45; WL 71-33-05

Frequency Information

MOBILE: Jean Dry Lake Bed, Jean, Nevada, within 16 km, centered around NL 35-47-14; WL 115-15-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1390-1435 MHz	MO	10M0G1W	3 W (ERP)	

This authorization effective July 19, 2021 and
will expire 3:00 A.M. EST January 05, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Pahrump Valley, Nevada, within 16 km, centered around NL 36-04-17; WL 115-46-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1395-1432 MHz	MO	10M0G1W	3 W (ERP)	

MOBILE: Sandy Valley Dry Lake Bed, Nevada, within 16 km, centered around NL 35-43-17; WL 115-35-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1395-1432 MHz	MO	10M0G1W	3 W (ERP)	

MOBILE: Crow Island, MA, within 16 km, centered around NL 42-25-01; WL 71-29-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1395-1432 MHz	MO	10M0G1W	3 W (ERP)	

MOBILE: Brookline, NH, within 16 km, centered around NL 42-44-39; WL 71-42-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1395-1432 MHz	MO	10M0G1W	3 W (ERP)	

Frequency Information

MOBILE: Pepperell, MA, within 16 km, centered around NL 42-41-45; WL 71-33-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1395-1432 MHz	MO	10M0G1W	3 W (ERP)	

Special Conditions:

- (1) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (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.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Terrafugia, Inc. must avoid all operations and emissions into the 1400-1427 MHz band in order to protect Radio Astronomy operations IAW Footnote US246 and US342.
- (5) Terrafugia, Inc. must coordinate prior to operation in the Crow Island, MA, Brooklinet, NH, and Pepperell, MA locations with the VLBA PoC: Dan "Mert" Mertely, nrao-rfi@nrao.edu, phone: (575) 835-7128.
- (6) Terrafugia, Inc. must schedule de-confliction in IFDS prior to transmitting.
- (7) Terrafugia, Inc. should be aware that footnote US79 does not allow aeronautical mobile operations within 1390-1400 MHz and 1425-1427 MHz, the grant is for proof-of-concept and is not the final band of operation. Also, it is acknowledged that the maximum altitude is below 400 feet which is consistent with FAA Part 107 operations.
- (8) Operation is not permitted using the frequency band 1390-1395 MHz and 1432-1435 MHz.
- (9) Stop buzzer, Sean Tierney at 781-404-6201.