

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

EXPERIMENTAL

(Nature of Service)

WS9XOR

(Call Sign)

XT MO

(Class of Station)

1296-EX-ST-2021

(File Number)

NAME Raytheon Company (Missiles & Defense - M)

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 radios for proof of concept UAS operations

Station Locations

- (1) MOBILE: Waimea, HI, within 15 km, centered around NL 22-03-20; WL 159-46-58
- (2) MOBILE: Waimea, HI. Airborne operations 15 km radius, within 15 km, centered around NL 22-03-20; WL 159-46-58

Frequency Information

MOBILE: Waimea, HI, within 15 km, centered around NL 22-03-20; WL 159-46-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4700-4740 MHz	MO	10M0D1D	40 W (ERP)	

This authorization effective August 30, 2021 and
will expire 3:00 A.M. EST November 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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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.
- (3) Raytheon Company coordinate prior to operations with the VGOS point of contact: Lawrence Hilliard lawrence.m.hilliard@nasa.gov
- (4) Since 4430-4900 MHz is shared with other fixed and mobile users, the proponent and any third-party Federal agency sponsor must coordinate with other Federal agencies and non-Federal experimental licensees to de-conflict proper discrete frequency channels for usage at this location. FAA concurrence with this frequency band is for experimental purposes only and is not an endorsement of further development of this band for aeronautical usage. The operation of Unmanned Aircraft Systems must comply with all applicable parts of 14 CFR, including but not limited to Parts 21, 45, 47, 61, and 91.