

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

EXPERIMENTAL

(Nature of Service)

WQ9XYF

(Call Sign)

XT MO

(Class of Station)

1207-EX-ST-2020

(File Number)

NAME Raytheon Company (Missiles and 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 of radar system

Station Locations

- (1) MOBILE: Tucson, AZ. four paths shown in exhibit, within 12 km, centered around NL 32-05-30; WL 110-56-48

Frequency Information

MOBILE: Tucson, AZ. four paths shown in exhibit, within 12 km, centered around NL 32-05-30; WL 110-56-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
31.8-33.9 GHz	MO	2G10Q0N	1528 W (ERP)	
34.8-36 GHz	MO	1G20Q0N	1528 W (ERP)	
38-41 GHz	MO	3G00Q0N	1528 W (ERP)	

This authorization effective August 25, 2020 and
will expire 3:00 A.M. EST January 20, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



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.
- (3) The stop buzzer point of contact is Jim Ortega at (520) 794-0227.
- (4) Prior to commencing any operations in the 40-41 GHz frequency band, the licensee must notify the earth station licensee listed below of its test dates and provide a stop buzzer in case of interference:
Call Sign: E170162, File Number: SES-LIC-20170807-00887
Licensee: HNS License Sub, LLC
ATTN: Jennifer A. Manner
Phone: 301-428-5893, E-Mail: jennifer.manner@echostar.com
Counsel: Hughes Network Systems, LLC
Phone: 301-428-5893
- (5) Operation is subject to prior coordination with the Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d).
- (6) All operations shall be pre-coordinated with the National Science Foundation, 4201 Wilson Boulevard, Room 1030, Arlington, VA 22230, Telephone: 703-292-4896, at least 7 days in advance of operation in order to protect Radio Astronomy operations at Kitt Peak, AZ.
- (7) The band 33.9 - 34.8 GHz shall be excluded from operations.
- (8) The band 37 - 38 GHz shall be excluded from operations, as aeronautical mobile operations are prohibited in this frequency band.