

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

EXPERIMENTAL

(Nature of Service)

WL9XYF

(Call Sign)

XT MO

(Class of Station)

1656-EX-ST-2017

(File Number)

NAME Raytheon SAS

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 purpose of the operation is to demonstrate, confirm and document the radar performance.

Station Locations

- (1) MOBILE: Fitch Beach Airport, MI, within 4 km, centered around NL 42-34-20; WL 84-48-44
- (2) MOBILE: Southern WI Reginal, within 5 km, centered around NL 42-37-06; WL 89-02-30
- (3) MOBILE: Wahoo DQ, NE, within 111 km, centered around NL 42-15-28; WL 97-12-07
- (4) MOBILE: Des Moines Airport, IA, within 3 km, centered around NL 41-31-56; WL 93-39-27
- (5) MOBILE: La Junta Stockyard, CO, within 70 km, centered around NL 37-59-14; WL 103-31-11
- (6) MOBILE: 4 Corners, AZ, within 54 km, centered around NL 36-59-56; WL 109-02-42
- (7) MOBILE: Hoover Dam, NV, within 3 km, centered around NL 36-00-58; WL 114-44-14
- (8) MOBILE: Sedona Airport, AZ, within 92 km, centered around NL 34-51-00; WL 111-47-14
- (9) MOBILE: Phantom Ranch, AZ, within 16 km, centered around NL 36-05-55; WL 112-05-39

This authorization effective December 11, 2017 and
will expire 3:00 A.M. EST December 23, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Fitch Beach Airport, MI, within 4 km, centered around NL 42-34-20; WL 84-48-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-9 GHz	MO	25M0Q3N 78M2Q3N 161MQ3N 238MQ3N 353MQ3N 478MQ3N	20 MW (ERP)	

MOBILE: Southern WI Reginal, within 5 km, centered around NL 42-37-06; WL 89-02-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-9 GHz	MO	25M0Q3N 78M2Q3N 161MQ3N 238MQ3N 353MQ3N 478MQ3N	20 MW (ERP)	

MOBILE: Wahoo DQ, NE, within 111 km, centered around NL 42-15-28; WL 97-12-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-9 GHz	MO	25M0Q3N 78M2Q3N 161MQ3N 238MQ3N 353MQ3N 478MQ3N	20 MW (ERP)	

Frequency Information

MOBILE: Des Moines Airport, IA, within 3 km, centered around NL 41-31-56; WL 93-39-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-9 GHz	MO	25M0Q3N 78M2Q3N 161MQ3N 238MQ3N 353MQ3N 478MQ3N	20 MW (ERP)	

MOBILE: La Junta Stockyard, CO, within 70 km, centered around NL 37-59-14; WL 103-31-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-9 GHz	MO	25M0Q3N 78M2Q3N 161MQ3N 238MQ3N 353MQ3N 478MQ3N	20 MW (ERP)	

MOBILE: 4 Corners, AZ, within 54 km, centered around NL 36-59-56; WL 109-02-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-9 GHz	MO	25M0Q3N 78M2Q3N 161MQ3N 238MQ3N 353MQ3N 478MQ3N	20 MW (ERP)	

Frequency Information

MOBILE: Hoover Dam, NV, within 3 km, centered around NL 36-00-58; WL 114-44-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-9 GHz	MO	25M0Q3N 78M2Q3N 161MQ3N 238MQ3N 353MQ3N 478MQ3N	20 MW (ERP)	

MOBILE: Sedona Airport, AZ, within 92 km, centered around NL 34-51-00; WL 111-47-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-9 GHz	MO	25M0Q3N 78M2Q3N 161MQ3N 238MQ3N 353MQ3N 478MQ3N	20 MW (ERP)	

MOBILE: Phantom Ranch, AZ, within 16 km, centered around NL 36-05-55; WL 112-05-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.5-9 GHz	MO	25M0Q3N 78M2Q3N 161MQ3N 238MQ3N 353MQ3N 478MQ3N	20 MW (ERP)	

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 SAS shall coordinate all transmissions with the NASA JPL Spectrum Management Office POC Feiming Morgan at 818.354.9251, Feiming.morgan@jpl.nasa.gov, in order to prevent mutual interference and potential equipment damage resulting from the requested operations and the operations of the NASA Goldstone Solar System Radar (GSSR) in Pasadena, CA.
- (4) Raytheon must not operate in the Las Vegas And Downers Grove area; due to possible interference with critical federal communications operations
- (5) Stop buzzer is Clarence Banks at (310) 616-9242.