

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WK2XUC

(Call Sign)

0224-EX-CM-2020

(File Number)

NAME Raytheon Missile Systems

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(c) of the Commission's Rules

Station Locations

- (1) MOBILE: Tucson, AZ, within 1 km, centered around NL 32-08-13; WL 110-55-20
- (2) MOBILE: Tucson, AZ, within 1 km, centered around NL 32-06-15; WL 110-57-11
- (3) MOBILE: Tucson, AZ, within 1 km, centered around NL 32-05-39; WL 110-48-27

Frequency Information

MOBILE: Tucson, AZ, within 1 km, centered around NL 32-08-13; WL 110-55-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
430-450 MHz	MO	40K0F1D	48.4 W (ERP)	
1370-1390 MHz	MO	4M06D1D 8M22D1D 16M4D1D	10.6 W (ERP)	
2300-2315 MHz	MO	4M06D1D 8M22D1D	8.2 W (ERP)	

This authorization effective April 05, 2021 and
will expire 3:00 A.M. EST May 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Tucson, AZ, within 1 km, centered around NL 32-08-13; WL 110-55-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2300-2315 MHz	MO	15M0D1D	8.2 W (ERP)	
2350-2472 MHz	MO	4M06D1D 8M22D1D 16M4D1D	8.2 W (ERP)	
4435-4640 MHz	MO	4M06D1D 8M22D1D 16M4D1D	20 W (ERP)	
4900-4940 MHz	MO	16M4D1D 8M22D1D 4M06D1D	20 W (ERP)	
4950-4990 MHz	MO	4M06D1D 8M22D1D 16M4D1D	20 W (ERP)	
6750-8000 MHz	MO	600MF3N	76.4 W (ERP)	

Frequency Information

MOBILE: Tucson, AZ, within 1 km, centered around NL 32-06-15; WL 110-57-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
430-449.75 MHz	MO	40K0F1D	48.4 W (ERP)	
1370-1387.5 MHz	MO	4M06D1D 8M22D1D 16M4D1D	10.6 W (ERP)	
2307.5 MHz	MO	4M06D1D 8M22D1D 15M0D1D	8.2 W (ERP)	
2350-2472 MHz	MO	4M06D1D 8M22D1D 16M4D1D	8.2 W (ERP)	
4435-4640 MHz	MO	4M06D1D 8M22D1D 16M4D1D	20 W (ERP)	
4900-4940 MHz	MO	16M4D1D 8M22D1D 4M06D1D	20 W (ERP)	
4950-4990 MHz	MO	4M06D1D 8M22D1D 16M4D1D	20 W (ERP)	

Frequency Information

MOBILE: Tucson, AZ, within 1 km, centered around NL 32-06-15; WL 110-57-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6750-8000 MHz	MO	600MF3N	76.4 W (ERP)	

MOBILE: Tucson, AZ, within 1 km, centered around NL 32-05-39; WL 110-48-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
430-450 MHz	MO	40K0F1D	48.4 W (ERP)	
1370-1390 MHz	MO	4M06D1D 8M22D1D 16M4D1D	10.6 W (ERP)	
2300-2315 MHz	MO	4M06D1D 8M22D1D 15M0D1D	8.2 W (ERP)	
2350-2472 MHz	MO	4M06D1D 8M22D1D 16M4D1D	8.2 W (ERP)	
4435-4640 MHz	MO	4M06D1D 8M22D1D 16M4D1D	20 W (ERP)	
4900-4940 MHz	MO	16M4D1D 8M22D1D	20 W (ERP)	

Frequency Information

MOBILE: Tucson, AZ, within 1 km, centered around NL 32-05-39; WL 110-48-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4900-4940 MHz	MO	4M06D1D	20 W (ERP)	
4950-4990 MHz	MO	4M06D1D 8M22D1D 16M4D1D	20 W (ERP)	
6750-8000 MHz	MO	600MF3N	76.4 W (ERP)	

Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the Area Frequency Coordinator, Ft. Huachuca, AZ, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the AFC, Ft. Huachuca, as necessary to ensure compatibility with existing uses.
- (2) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (3) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (6) 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.
- (7) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (8) Operations in the WCS bands (2305-2320 MHz and 2345-2360 MHz) must comply with the emission limits applicable to those bands. See 47 C.F.R. § 27.53(a).
- (9) Raytheon Missile Systems must notch out the following (+/- 15 MHz) 7165 MHz, 7195 MHz, 7345 MHz, 7375 MHz, 7465 MHz, 7495 MHz, 7645 MHz, and 7675 MHz in order to protect ongoing operations in the requested area.
- (10) Stop Buzzer Point of Contact is Jim Ortega at (520) 794-0227.

Special Conditions:

- (11) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 78 miles of the contours of the testing area:
 - WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T)
- (12) Airborne operation in 2305-2310 MHz band is prohibited.
- (13) Flight not to exceed 3000 FT AGL.
- (14) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number HQ 0727-18-F-1632. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.