

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

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WK2XCP

(Call Sign)

0226-EX-TC-2019

(File Number)

NAME Raytheon Company

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(j) of the Commission's Rules

Station Locations

- (1) 29 Palms (SAN BERNARDINO), CA - NL 34-22-26; WL 115-56-04; MOBILE: 29 Palms, CA, within 6 km, centered around NL 34-22-26; WL 115-56-04

Frequency Information

29 Palms (SAN BERNARDINO), CA - NL 34-22-26; WL 115-56-04; MOBILE: 29 Palms, CA, within 6 km, centered around NL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2312-2320 MHz	MO	3M85G1D 7M70G1D 4M06D1D	17.23 W (ERP)	
2345-2507 MHz	MO	3M85G1D 7M70G1D 15M4G1D 4M06D1D 8M13D1D 16M3D1D 32M5D1D	17.23 W (ERP)	

This authorization effective January 22, 2020 and
will expire 3:00 A.M. EST March 06, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the Western Area Frequency Coordinator (WAFC) 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 WAFC as necessary to ensure compatibility with existing uses.
- (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) 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.
- (6) 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.
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (8) Stop buzzer point of contact is Ernest Gossmann at (520) 794-0227.
- (9) Operations in the WCS bands (2312-2320 MHz and 2345-2507 MHz) must comply with the emission limits applicable to those bands. See 47 C.F.R. § 27.53(a).
- (10) UASs authorized herein must not be used for air traffic control communications.
- (11) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.
- (12) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (13) Raytheon Missile Systems must ensure that the UAS operations are limited to the Twenty-nine Palms range complex as outlined in the application's attachment.
- (14) Prior to commencing any operations in WCS (2305-2320 MHz/2345-2360 MHz) frequencies, the applicant must obtain consent from the WCS licensee (AT&T).