

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WG2XKN

(Call Sign)

0181-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) Tucson (PIMA), AZ - NL 32-06-32; WL 110-57-19

Frequency Information

Tucson (PIMA), AZ - NL 32-06-32; WL 110-57-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2-40 GHz	FX	200KN0N	100 mW (ERP)	
2-2.7 GHz	FX	200KN0N	100 mW (ERP)	
2.78-40 GHz	FX	200KN0N	100 mW (ERP)	

Special Conditions:

- (1) Operation requires consent of affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) Operation in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.

This authorization effective January 22, 2020 and
will expire 3:00 A.M. EST September 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) 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.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (6) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (7) 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.
- (8) 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.
- (9) Raytheon must maintain separation from the grandfathered satellite earth stations as defined in Part 90 Subpart Z and notify the registered stations in the 3650-3700 MHz band.
- (10) All testing will occur in a laboratory/anechoic chamber environment.
- (11) Use of this frequency band is subject to prior coordination with the FAA Western Pacific Regional Office, Honolulu ARTCC, P.O. BOX 50109, Honolulu, HAWAII 96850-4983, ATTN: FREQUENCY MANAGEMENT OFFICE: PH (808) 541-1241.
- (12) Use of this frequency band is subject to further coordination with the AFC, FT. HUACHUCA, ARIZONA, as necessary to ensure compatibility with the existing uses.
- (13) Operation is prohibited in 2.7-2.78 GHz band.
- (14) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Jim Ortega at (520) 794-0227.
- (15) Operation in 2320-2345 MHz band must be consented by SDARS licensee(s).