

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

EXPERIMENTAL

(Nature of Service)

WK2XCH

(Call Sign)

XD MO

(Class of Station)

0505-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) MOBILE: Tewksbury , MA, within 200 km, centered around NL 42-38-11; WL 71-14-43

Frequency Information

MOBILE: Tewksbury , MA, within 200 km, centered around NL 42-38-11; WL 71-14-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
142.025 MHz	MO	12K5F3E 25K0F3E	10 W (ERP)	
146.075 MHz	MO	12K5F3E 25K0F3E	10 W (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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.

This authorization effective January 23, 2020 and
will expire 3:00 A.M. EST April 01, 2021

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Special Conditions:

- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Licensee must ensure that the transmitting antenna(s) main beam do not point above the horizon in order to protect satellite space stations operating in overlapping frequency bands.
- (5) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (6) Raytheon IDS must limit operations to only the ground operations.