

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

EXPERIMENTAL

(Nature of Service)

WF2XQR

(Call Sign)

XD FX MO

(Class of Station)

0434-EX-CR-2020

(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 32-06-23; WL 110-56-17

(2) MOBILE: airborne, within 100 km, centered around NL 32-06-23; WL 110-56-17

Frequency Information

Tucson (PIMA), AZ - NL 32-06-23; WL 110-56-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4445 MHz	FX	30M0Q1D 30M0G1D 30M0F1D	40 W (ERP)	
4475 MHz	FX	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4505 MHz	FX	30M0F1D 30M0G1D	40 W (ERP)	

This authorization effective August 01, 2020 and
will expire 3:00 A.M. EST August 01, 2022

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Frequency Information

Tucson (PIMA), AZ - NL 32-06-23; WL 110-56-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4505 MHz	FX	30M0Q1D	40 W (ERP)	
4535 MHz	FX	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4565 MHz	FX	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4595 MHz	FX	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4625 MHz	FX	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4655 MHz	FX	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4685 MHz	FX	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-06-23; WL 110-56-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4715 MHz	FX	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4745 MHz	FX	30M0Q1D 30M0F1D 30M0G1D	40 W (ERP)	
4815 MHz	FX	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
5091-5150 MHz	FX	24M0F1D 24M0G1D 24M0Q1D	40 W (ERP)	
5925-6700 MHz	FX	24M0F1D 24M0G1D 24M0Q1D	40 W (ERP)	

MOBILE: airborne, within 100 km, centered around NL 32-06-23; WL 110-56-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4445 MHz	MO	30M0F1D 30M0G1D	40 W (ERP)	

Frequency Information

MOBILE: airborne, within 100 km, centered around NL 32-06-23; WL 110-56-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4445 MHz	MO	30M0Q1D	40 W (ERP)	
4475 MHz	MO	30M0G1D 30M0Q1D 30M0F1D	40 W (ERP)	
4505 MHz	MO	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4535 MHz	MO	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4565 MHz	MO	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4595 MHz	MO	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4625 MHz	MO	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	

Frequency Information

MOBILE: airborne, within 100 km, centered around NL 32-06-23; WL 110-56-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4655 MHz	MO	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4685 MHz	MO	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4715 MHz	MO	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4745 MHz	MO	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
4815 MHz	MO	30M0F1D 30M0G1D 30M0Q1D	40 W (ERP)	
5091-5150 MHz	MO	24M0F1D 24M0G1D 24M0Q1D	40 W (ERP)	
5925-6700 MHz	MO	24M0F1D 24M0G1D	40 W (ERP)	

Frequency Information

MOBILE: airborne, within 100 km, centered around NL 32-06-23; WL 110-56-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5925-6700 MHz	MO	24M0Q1D	40 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.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Operation is subject to prior coordination with existing and future Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d).