

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

KI2XDD

(Call Sign)

0156-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 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 120 km, centered around NL 32-06-27; WL 110-56-19
- (2) Tucson (PIMA), AZ - NL 32-05-46; WL 110-56-47
- (3) Tucson (PIMA), AZ - NL 32-06-16; WL 110-57-13
- (4) Tucson (PIMA), AZ - NL 32-05-46; WL 110-57-07
- (5) Tucson (PIMA), AZ - NL 32-05-30; WL 110-56-47

Frequency Information

Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 120 km, centered around NL 32-06-27; WL 110-56-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8500-10500 MHz	MO	75M0G1N 75M0N0N 75M0P0N	35 MW (ERP)	
8500-9000 MHz	MO	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	

This authorization effective June 01, 2020 and
will expire 3:00 A.M. EST October 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 120 km, centered around NL 32-06-27; WL 110

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8500-9000 MHz	FX	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	
9200-10500 MHz	MO	75M0G1N 75M0N0N 75M0P0N	35 MW (ERP)	
9200-10500 MHz	FX	75M0G1N 75M0N0N 75M0P0N	35 MW (ERP)	
10.55-12.2 GHz	MO	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	
10.55-10.68 GHz	FX	75M0G1N 75M0N0N 75M0P0N	35 MW (ERP)	
10.55-10.68 GHz	MO	75M0G1N 75M0N0N 75M0P0N	35 MW (ERP)	
10.7-12.2 GHz	MO	75M0G1N 75M0N0N	35 MW (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 120 km, centered around NL 32-06-27; WL 110

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.7-12.2 GHz	MO	75M0P0N	35 MW (ERP)	
10.7-12.2 GHz	FX	75M0G1N 75M0N0N 75M0P0N	35 MW (ERP)	
31-31.3 GHz	MO	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	
31-31.3 GHz	FX	40M0G1N 40M0P0N 40M0N0N	10 MW (ERP)	
31.8-32 GHz	MO	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	
31.8-32 GHz	FX	40M0G1N 40M0P0N 40M0N0N	10 MW (ERP)	
32-36 GHz	MO	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19; MOBILE: Tucson, AZ, within 120 km, centered around NL 32-06-27; WL 110-56-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
32-36 GHz	FX	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	

Tucson (PIMA), AZ - NL 32-05-46; WL 110-56-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8500-9000 MHz	FX	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	
9200-10500 MHz	FX	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	
10.55-10.68 GHz	FX	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	
10.7-12.2 GHz	FX	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	
31-31.3 GHz	FX	40M0N0N 40M0P0N	10 MW (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-05-46; WL 110-56-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
31-31.3 GHz	FX	40M0G1N	10 MW (ERP)	
31.8-32 GHz	FX	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	
32-36 GHz	FX	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	

Tucson (PIMA), AZ - NL 32-06-16; WL 110-57-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8500-9000 MHz	FX	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	
9200-10500 MHz	FX	75M0G1N 75M0N0N 75M0P0N	35 MW (ERP)	
10.55-10.68 GHz	FX	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-06-16; WL 110-57-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.7-12.2 GHz	FX	75M0G1N 75M0N0N 75M0P0N	35 MW (ERP)	
31-31.3 GHz	FX	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	
31.8-32 GHz	FX	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	
32-36 GHz	FX	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	

Tucson (PIMA), AZ - NL 32-05-46; WL 110-57-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8500-9000 MHz	FX	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	
9200-10500 MHz	FX	75M0P0N 75M0N0N	35 MW (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-05-46; WL 110-57-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9200-10500 MHz	FX	75M0G1N	35 MW (ERP)	
10.55-10.68 GHz	FX	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	
10.7-12.2 GHz	FX	75M0G1N 75M0N0N 75M0P0N	35 MW (ERP)	
31-31.3 GHz	FX	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	
31.8-32 GHz	FX	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	
32-36 GHz	FX	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-05-30; WL 110-56-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8500-9000 MHz	FX	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	
9200-10500 MHz	FX	75M0G1N 75M0N0N 75M0P0N	35 MW (ERP)	
10.55-10.68 GHz	FX	75M0P0N 75M0N0N 75M0G1N	35 MW (ERP)	
10.7-12.2 GHz	FX	75M0G1N 75M0N0N 75M0P0N	35 MW (ERP)	
31-31.3 GHz	FX	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	
31.8-32 GHz	FX	40M0N0N 40M0P0N 40M0G1N	10 MW (ERP)	
32-36 GHz	FX	40M0N0N 40M0P0N	10 MW (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-05-30; WL 110-56-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
32-36 GHz	FX	40M0G1N	10 MW (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) Operation not permitted in the bands 9000-9200 MHz and 10.68-10.7 GHz.
- (5) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Jim Ortega at (520) 794-0227.
- (6) Operation for the aircraft is limited to maximum above ground level (AGL) 10000 ft.