

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

EXPERIMENTAL

(Nature of Service)

KA2XAG

(Call Sign)

XC FX MO

(Class of Station)

0021-EX-ML-2007

(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(b) of the Commission's Rules

Station Locations

- (1) Tucson (PIMA), AZ - NL 32-06-06; WL 110-56-48; MOBILE:within 120 km, centered around NL 32-06-06; WL 110-56-48

Frequency Information

Tucson (PIMA), AZ - NL 32-06-06; WL 110-56-48; MOBILE:within 120 km, centered around NL 32-06-06; WL 110-56-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
155 MHz	FX	10M0P0N	50 kW (ERP)	
815 MHz	FX	10M0P0N	50 kW (ERP)	
1300 MHz	FX	10M0P0N	50 kW (ERP)	
2000-2290 MHz	FX	10M0P0N	250 kW (ERP)	

This authorization effective January 15, 2008 and
will expire 3:00 A.M. EST November 01, 2009

**FEDERAL
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Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2300-2360 MHz	FX	10M0P0N	100 kW (ERP)	
2390-2690 MHz	FX	10M0P0N	250 kW (ERP)	
2900-3700 MHz	FX	10M0P0N	250 kW (ERP)	
4400-4990 MHz	FX	10M0P0N	350 kW (ERP)	
5250-5600 MHz	FX	10M0P0N	350 kW (ERP)	
5650-5925 MHz	FX	10M0P0N	350 kW (ERP)	
8500-9000 MHz	FX	10M0P0N	300 kW (ERP)	
9200-10000 MHz	FX	10M0P0N	300 kW (ERP)	
13400-14000 MHz	FX	10M0P0N	300 kW (ERP)	
15700-17700 MHz	FX	10M0P0N	300 kW (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-06-06; WL 110-56-48; MOBILE:within 120 km, centered around NL 32-06-06; WL 110-56-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
32000-39000 MHz	FX	10M0P0N	1 MW (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by . The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) Licensee is authorized to use various modes of modulation, bandwidth, and data rates. None of these modes of transmission shall extend beyond the band limits set forth above. Power and emission for the 902-928, 2400-2483.5 and 5725-5850 MHz bands must conform to Part 15 FCC Rules.
- (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) Any operation in the 1850-1990 and 2130-2200 MHz band must be coordinated with the existing and future users to avoid interference. Emission types may vary under the experiment.
- (7) Subject to coordination with the Area Frequency Coordinator, located at the Army Electronic Proving Ground, Ft. Huachuca, Arizona, prior to use within the State of Arizona. Phone: 602-538-6423.
- (8) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (9) Assignment in frequency bands 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Western Coordinator, Los Angeles, CA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Western Coordinator, Los Angeles, CA, as necessary to ensure compatibility with existing uses.
- (10) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by U.S. Navy Contract number N00019-87-C-3102. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.

Special Conditions:

- (11) Renewal of this License is subject to prior coordination with AFTRCC Frequency Advisory Committee, PO Box 200547, Cartersville, GA 30120-9010, Telephone (770) 494-2893.
- (12) The designated point-of-contact to terminate transmissions if interference occurs is Steve Cox at (520) 663-6884.