

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

EXPERIMENTAL

(Nature of Service)

WF2XLZ

(Call Sign)

XD FX MO

(Class of Station)

0317-EX-CR-2018

(File Number)

NAME Raytheon Missile Systems

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 32-06-41; WL 110-57-19
- (2) MOBILE: Tuscon, AZ, within 25 km, centered around NL 32-06-41; WL 110-57-19
- (3) Whetstone (COCHISE), AZ - NL 31-43-30; WL 110-17-48
- (4) MOBILE: Whetstone, AZ, within 25 km, centered around NL 31-43-30; WL 110-17-48

Frequency Information

Tucson (PIMA), AZ - NL 32-06-41; WL 110-57-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
225.792 MHz	FX	230KF1D	4.8 W (ERP)	
226.2528 MHz	FX	230KF1D	4.8 W (ERP)	
226.944 MHz	FX	230KF1D	4.8 W (ERP)	

This authorization effective July 01, 2018 and
will expire 3:00 A.M. EST June 11, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Tucson (PIMA), AZ - NL 32-06-41; WL 110-57-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
227.8656 MHz	FX	230KF1D	4.8 W (ERP)	
228.096 MHz	FX	230KF1D	4.8 W (ERP)	
228.3264 MHz	FX	230KF1D	4.8 W (ERP)	
233.1648 MHz	FX	230KF1D	4.8 W (ERP)	
234.5472 MHz	FX	230KF1D	4.8 W (ERP)	
236.3904 MHz	FX	230KF1D	4.8 W (ERP)	
236.6208 MHz	FX	230KF1D	4.8 W (ERP)	
237.0816 MHz	FX	230KF1D	4.8 W (ERP)	
237.312 MHz	FX	230KF1D	4.8 W (ERP)	
237.5424 MHz	FX	230KF1D	4.8 W (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-06-41; WL 110-57-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
237.7728 MHz	FX	230KF1D	4.8 W (ERP)	
238.2336 MHz	FX	230KF1D	4.8 W (ERP)	
239.616 MHz	FX	230KF1D	4.8 W (ERP)	
240.9984 MHz	FX	230KF1D	4.8 W (ERP)	
241.4592 MHz	FX	230KF1D	4.8 W (ERP)	
246.2976 MHz	FX	230KF1D	4.8 W (ERP)	
251.5968 MHz	FX	230KF1D	4.8 W (ERP)	
262.1952 MHz	FX	230KF1D	4.8 W (ERP)	
902-928 MHz	FX	350KF1D	5.2 W (ERP)	
2204.5 MHz	FX	1M12F3D	1 W (ERP)	

Frequency Information

Tucson (PIMA), AZ - NL 32-06-41; WL 110-57-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2550 MHz	FX	8M60D7W	5 W (ERP)	

MOBILE: Tuscon, AZ, within 25 km, centered around NL 32-06-41; WL 110-57-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
225.792 MHz	MO	230KF1D	4.8 W (ERP)	
226.2528 MHz	MO	230KF1D	4.8 W (ERP)	
226.944 MHz	MO	230KF1D	4.8 W (ERP)	
227.8656 MHz	MO	230KF1D	4.8 W (ERP)	
228.096 MHz	MO	230KF1D	4.8 W (ERP)	
228.3264 MHz	MO	230KF1D	4.8 W (ERP)	
233.1648 MHz	MO	230KF1D	4.8 W (ERP)	
234.5472 MHz	MO	230KF1D	4.8 W (ERP)	

Frequency Information

MOBILE: Tuscon, AZ, within 25 km, centered around NL 32-06-41; WL 110-57-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
236.3904 MHz	MO	230KF1D	4.8 W (ERP)	
236.6208 MHz	MO	230KF1D	4.8 W (ERP)	
237.0816 MHz	MO	230KF1D	4.8 W (ERP)	
237.312 MHz	MO	230KF1D	4.8 W (ERP)	
237.5424 MHz	MO	230KF1D	4.8 W (ERP)	
237.7728 MHz	MO	230KF1D	4.8 W (ERP)	
238.2336 MHz	MO	230KF1D	4.8 W (ERP)	
239.616 MHz	MO	230KF1D	4.8 W (ERP)	
240.9984 MHz	MO	230KF1D	4.8 W (ERP)	
241.4592 MHz	MO	230KF1D	4.8 W (ERP)	

Frequency Information

MOBILE: Tuscon, AZ, within 25 km, centered around NL 32-06-41; WL 110-57-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
246.2976 MHz	MO	230KF1D	4.8 W (ERP)	
251.5968 MHz	MO	230KF1D	4.8 W (ERP)	
262.1952 MHz	MO	230KF1D	4.8 W (ERP)	
902-928 MHz	MO	350KF1D	1.585 W (ERP)	
2204.5 MHz	MO	1M12F3D	1 W (ERP)	
2400-2550 MHz	MO	8M60D7W	5 W (ERP)	

Whetstone (COCHISE), AZ - NL 31-43-30; WL 110-17-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
225.792 MHz	FX	230KF1D	4.8 W (ERP)	
226.2528 MHz	FX	230KF1D	4.8 W (ERP)	
226.944 MHz	FX	230KF1D	4.8 W (ERP)	

Frequency Information

Whetstone (COCHISE), AZ - NL 31-43-30; WL 110-17-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
227.8656 MHz	FX	230KF1D	4.8 W (ERP)	
228.096 MHz	FX	230KF1D	4.8 W (ERP)	
228.3264 MHz	FX	230KF1D	4.8 W (ERP)	
233.1648 MHz	FX	230KF1D	4.8 W (ERP)	
234.5472 MHz	FX	230KF1D	4.8 W (ERP)	
236.3904 MHz	FX	230KF1D	4.8 W (ERP)	
236.6208 MHz	FX	230KF1D	4.8 W (ERP)	
237.0816 MHz	FX	230KF1D	4.8 W (ERP)	
237.312 MHz	FX	230KF1D	4.8 W (ERP)	
237.5424 MHz	FX	230KF1D	4.8 W (ERP)	

Frequency Information

Whetstone (COCHISE), AZ - NL 31-43-30; WL 110-17-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
237.7728 MHz	FX	230KF1D	4.8 W (ERP)	
238.2336 MHz	FX	230KF1D	4.8 W (ERP)	
239.616 MHz	FX	230KF1D	4.8 W (ERP)	
240.9984 MHz	FX	230KF1D	4.8 W (ERP)	
241.4592 MHz	FX	230KF1D	4.8 W (ERP)	
246.2976 MHz	FX	230KF1D	4.8 W (ERP)	
251.5968 MHz	FX	230KF1D	4.8 W (ERP)	
262.1952 MHz	FX	230KF1D	4.8 W (ERP)	
902-928 MHz	FX	350KF1D	5.2 W (ERP)	
2204.5 MHz	FX	1M12F3D	1 W (ERP)	

Frequency Information

Whetstone (COCHISE), AZ - NL 31-43-30; WL 110-17-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2550 MHz	FX	8M60D7W	5 W (ERP)	

MOBILE: Whetstone, AZ, within 25 km, centered around NL 31-43-30; WL 110-17-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
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226.944 MHz	MO	230KF1D	4.8 W (ERP)	
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236.6208 MHz	MO	230KF1D	4.8 W (ERP)	
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237.312 MHz	MO	230KF1D	4.8 W (ERP)	
237.5424 MHz	MO	230KF1D	4.8 W (ERP)	
237.7728 MHz	MO	230KF1D	4.8 W (ERP)	
238.2336 MHz	MO	230KF1D	4.8 W (ERP)	
239.616 MHz	MO	230KF1D	4.8 W (ERP)	
240.9984 MHz	MO	230KF1D	4.8 W (ERP)	
241.4592 MHz	MO	230KF1D	4.8 W (ERP)	

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MOBILE: Whetstone, AZ, within 25 km, centered around NL 31-43-30; WL 110-17-48

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902-928 MHz	MO	350KF1D	1.585 W (ERP)	
2204.5 MHz	MO	1M12F3D	1 W (ERP)	
2400-2550 MHz	MO	8M60D7W	5 W (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.
- (5) Operation is subject to prior coordination with local Fixed Microwave Service licensees.
- (6) Operation in the band 2400-2550 MHz requires secure consent from Broadband Radio Service/Educational Broadband Service (BRS/EBS) licensees.
- (7) STOP BUZZERS: Bart Turner at (520) 794-0227.

Special Conditions:

- (8) Renewal of frequency bands beyond this one year extension will require verification, freq was used at assigned locations and coordination with DOD AFC AZ was initiated as required prior to any use of these frequencies.
- (9) Raytheon will coordinate with AFC DOD Arizona at (520) 538-6423 prior to test.
- (10) Operation is subject to notification of Location & Monitoring Service licensees (902-928 MHz) within 50 miles of the test area.