

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WF9XDC

(Call Sign)

0504-EX-ST-2011

(File Number)

NAME Raytheon Missile Systems

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

This request is URGENT. The program will be shut down without the requested authorization, because it has no other means of controlling the UAV in flight.

Station Locations

- (1) Whetstone (COCHISE), AZ - NL 31-43-30; WL 110-17-48; MOBILE: UAV will operate within a 25 km radius of the coordinates below, within 25 km
- (2) Tucson (PIMA), AZ - NL 32-06-41; WL 110-57-19; MOBILE: , within 25 km

Frequency Information

Whetstone (COCHISE), AZ - NL 31-43-30; WL 110-17-48; MOBILE: UAV will operate within a 25 km radius of the coordinate

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
225.5616 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
225.5616 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %

This authorization effective August 29, 2011 and
will expire 3:00 A.M. EST February 14, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Whetstone (COCHISE), AZ - NL 31-43-30; WL 110-17-48; MOBILE: UAV will operate within a 25 km radius of the coordinate

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
225.792 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
225.792 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
226.0224 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
226.0224 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
226.2528 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
226.2528 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
226.4832 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
226.4832 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
226.7136 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
226.7136 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %

Frequency Information

Whetstone (COCHISE), AZ - NL 31-43-30; WL 110-17-48; MOBILE: UAV will operate within a 25 km radius of the coordinate

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
226.944 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
226.944 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
227.1744 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
227.1744 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
227.4048 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
227.4048 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
227.6352 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
227.6352 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
227.8656 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
227.8656 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %

Frequency Information

Whetstone (COCHISE), AZ - NL 31-43-30; WL 110-17-48; MOBILE: UAV will operate within a 25 km radius of the coordinate

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
228.096 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
228.096 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
228.3264 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
228.3264 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
228.5568 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
228.5568 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
228.7872 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
228.7872 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
229.0176 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
229.0176 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %

Frequency Information

Whetstone (COCHISE), AZ - NL 31-43-30; WL 110-17-48; MOBILE: UAV will operate within a 25 km radius of the coordinate

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
229.248 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
229.248 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
229.4784 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
229.4784 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
229.7088 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
229.7088 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
229.9392 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
229.9392 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
230.1696 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
230.1696 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %

Frequency Information

Tucson (PIMA), AZ - NL 32-06-41; WL 110-57-19; MOBILE: , within 25 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
225.792 kHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
225.5616 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
225.5616 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
225.792 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
226.0224 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
226.0224 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
226.2528 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
226.2528 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
226.4832 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
226.4832 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %

Frequency Information

Tucson (PIMA), AZ - NL 32-06-41; WL 110-57-19; MOBILE: , within 25 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
226.7136 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
226.7136 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
226.944 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
226.944 MHz	MO	230KD1D	4.8 W (ERP)	1.5E-6 %
227.1744 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
227.1744 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
227.4048 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
227.4048 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
227.6352 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
227.6352 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %

Frequency Information

Tucson (PIMA), AZ - NL 32-06-41; WL 110-57-19; MOBILE: , within 25 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
227.8656 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
227.8656 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
228.096 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
228.096 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
228.3264 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
228.3264 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
228.5568 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
228.5568 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
228.7872 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
228.7872 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %

Frequency Information

Tucson (PIMA), AZ - NL 32-06-41; WL 110-57-19; MOBILE: , within 25 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
229.0176 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
229.0176 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
229.248 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
229.248 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
229.4784 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
229.4784 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
229.7088 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
229.7088 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %
229.9392 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
229.9392 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %

Frequency Information

Tucson (PIMA), AZ - NL 32-06-41; WL 110-57-19; MOBILE: , within 25 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
230.1696 MHz	FX	230KF1D	4.8 W (ERP)	1.5E-6 %
230.1696 MHz	MO	230KF1D	4.8 W (ERP)	1.5E-6 %

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.