

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WF2XGF

(Call Sign)

0069-EX-RR-2012

(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(i) of the Commission's Rules

Station Locations

- (1) MOBILE: China Lake, CA, within 16 km, centered around NL 35-40-21; WL 117-41-22
- (2) MOBILE: Ft. Huachuca, AZ, within 16 km, centered around NL 31-34-51; WL 110-17-45
- (3) MOBILE: Edwards AFB, CA, within 16 km, centered around NL 34-55-14; WL 117-53-19
- (4) MOBILE: Eglin AFB, FL, within 16 km, centered around NL 30-28-59; WL 86-33-19
- (5) MOBILE: White Sands Missile Range, NM, within 16 km, centered around NL 32-22-38; WL 106-28-45
- (6) MOBILE: Point Mugu, CA, within 16 km, centered around NL 34-06-40; WL 119-06-31
- (7) MOBILE: Yuma, AZ, within 16 km, centered around NL 32-39-40; WL 114-35-07
- (8) MOBILE: Hill AFB, UT, within 16 km, centered around NL 41-06-41; WL 111-58-25
- (9) MOBILE: Tucson, AZ, within 16 km, centered around NL 32-08-14; WL 110-55-13

Frequency Information

MOBILE: China Lake, CA, within 16 km, centered around NL 35-40-21; WL 117-41-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	MO	24M0G1D	0.019 pW (ERP)	

This authorization effective April 12, 2012 and
will expire 3:00 A.M. EST April 12, 2014

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: China Lake, CA, within 16 km, centered around NL 35-40-21; WL 117-41-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1575.42 MHz	MO	24M0G1D	0.019 pW (ERP)	

MOBILE: Ft. Huachuca, AZ, within 16 km, centered around NL 31-34-51; WL 110-17-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	MO	24M0G1D	0.019 pW (ERP)	
1575.42 MHz	MO	24M0G1D	0.019 pW (ERP)	

MOBILE: Edwards AFB, CA, within 16 km, centered around NL 34-55-14; WL 117-53-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	MO	24M0G1D	0.019 pW (ERP)	
1575.42 MHz	MO	24M0G1D	0.019 pW (ERP)	

MOBILE: Eglin AFB, FL, within 16 km, centered around NL 30-28-59; WL 86-33-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	MO	24M0G1D	0.019 pW (ERP)	

Frequency Information

MOBILE: Eglin AFB, FL, within 16 km, centered around NL 30-28-59; WL 86-33-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1575.42 MHz	MO	24M0G1D	0.019 pW (ERP)	

MOBILE: White Sands Missile Range, NM, within 16 km, centered around NL 32-22-38; WL 106-28-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	MO	24M0G1D	0.019 pW (ERP)	
1575.42 MHz	MO	24M0G1D	0.019 pW (ERP)	

MOBILE: Point Mugu, CA, within 16 km, centered around NL 34-06-40; WL 119-06-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	MO	24M0G1D	0.019 pW (ERP)	
1575.42 MHz	MO	24M0G1D	0.019 pW (ERP)	

MOBILE: Yuma, AZ, within 16 km, centered around NL 32-39-40; WL 114-35-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	MO	24M0G1D	0.019 pW (ERP)	

Frequency Information

MOBILE: Yuma, AZ, within 16 km, centered around NL 32-39-40; WL 114-35-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1575.42 MHz	MO	24M0G1D	0.019 pW (ERP)	

MOBILE: Hill AFB, UT, within 16 km, centered around NL 41-06-41; WL 111-58-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	MO	24M0G1D	0.019 pW (ERP)	
1575.42 MHz	MO	24M0G1D	0.019 pW (ERP)	

MOBILE: Tucson, AZ, within 16 km, centered around NL 32-08-14; WL 110-55-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	MO	24M0G1D	0.019 pW (ERP)	
1575.42 MHz	MO	24M0G1D	0.019 pW (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) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Thomas J. Fagan, at 520-794-0227,

Special Conditions:

- (5) Operation is limited to activity for the purpose of testing radionavigation satellite service (RNSS) equipment and systems.
- (6) The test equipment shall only be used indoors and shall be under the control of the Raytheon Missile Systems.
- (7) The Raytheon Missile Systems shall post signs on doors to the test area notifying that, "GPS re-radiator is in use and the GPS information you receive may be in error."
- (8) GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.
- (9) EIRP is no greater than -140 dbm/24 MHz at 100 feet.
- (10) Operation is subject to coordination prior to activation and, as appropriate, possible scheduling with the WAFC at (760) 939-6948 when used within interference range of such activity (ies) or station(s).