

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WF2XVU

(Call Sign)

0236-EX-RR-2013

(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) Redstone Arsenal (MADISON), AL - NL 34-37-38; WL 86-35-43
- (2) Redstone Arsenal (MADISON), AL - NL 34-37-42; WL 86-35-46
- (3) Redstone Arsenal (MADISON), AL - NL 34-37-43; WL 86-35-43
- (4) Redstone Arsenal (MADISON), AL - NL 34-37-42; WL 86-35-39
- (5) Redstone Arsenal (MADISON), AL - NL 34-37-40; WL 86-35-37
- (6) Redstone Arsenal (MADISON), AL - NL 34-37-37; WL 86-35-37
- (7) Redstone Arsenal (MADISON), AL - NL 34-37-35; WL 86-35-39

Frequency Information

Redstone Arsenal (MADISON), AL - NL 34-37-38; WL 86-35-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	0.000124 pW (ERP)	
1575.42 MHz	FX	24M0G1D	0.000078 pW (ERP)	

This authorization effective August 29, 2013 and
will expire 3:00 A.M. EST September 01, 2015

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Redstone Arsenal (MADISON), AL - NL 34-37-42; WL 86-35-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	0.000124 pW (ERP)	
1575.42 MHz	FX	24M0G1D	0.000078 pW (ERP)	

Redstone Arsenal (MADISON), AL - NL 34-37-43; WL 86-35-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	0.000124 pW (ERP)	
1575.42 MHz	FX	24M0G1D	0.000078 pW (ERP)	

Redstone Arsenal (MADISON), AL - NL 34-37-42; WL 86-35-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	0.000124 pW (ERP)	
1575.42 MHz	FX	24M0G1D	0.000078 pW (ERP)	

Frequency Information

Redstone Arsenal (MADISON), AL - NL 34-37-40; WL 86-35-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	0.000124 pW (ERP)	
1575.42 MHz	FX	24M0G1D	0.000078 pW (ERP)	

Redstone Arsenal (MADISON), AL - NL 34-37-37; WL 86-35-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	0.000124 pW (ERP)	
1575.42 MHz	FX	24M0G1D	0.000078 pW (ERP)	

Redstone Arsenal (MADISON), AL - NL 34-37-35; WL 86-35-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	0.000124 pW (ERP)	
1575.42 MHz	FX	24M0G1D	0.000078 pW (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) 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.

Special Conditions:

- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Thomas J. Fagan at 520-465-7087 (cell) or 520-794-0227 (office).
- (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.