

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

EXPERIMENTAL

(Nature of Service)

XC FX MO

(Class of Station)

WF2XFM

(Call Sign)

0418-EX-PL-2009

(File Number)

NAME Lockheed Martin Corporation

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) Baltimore (BALTIMORE), MD - NL 39-19-46; WL 76-25-49; MOBILE: Baltimore (BALTIMORE), MD, within 1 km
- (2) Huntsville (MADISON), AL - NL 34-41-37; WL 86-42-38; MOBILE: Huntsville (MADISON), AL, within 1 km

Frequency Information

Baltimore (BALTIMORE), MD - NL 39-19-46; WL 76-25-49; MOBILE: Baltimore (BALTIMORE), MD, within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-74.6 MHz	MO	25K0F2D 25K0F3E 25K0F3D	4 W (ERP)	
75.4-87.975 MHz	MO	25K0F2D 25K0F3E 25K0F3D	4 W (ERP)	

This authorization effective December 29, 2009 and
will expire 3:00 A.M. EST January 01, 2012

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Frequency Information

Baltimore (BALTIMORE), MD - NL 39-19-46; WL 76-25-49; MOBILE: Baltimore (BALTIMORE), MD, within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	MO	24M0G1D	1 pW (ERP)	
1575.42 MHz	MO	24M0G1D	1 pW (ERP)	

Huntsville (MADISON), AL - NL 34-41-37; WL 86-42-38; MOBILE: Huntsville (MADISON), AL, within 1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-74.6 MHz	MO	25K0F2D 25K0F3D 25K0F3E	4 W (ERP)	
75.4-87.975 MHz	MO	25K0F2D 25K0F3E 25K0F3D	4 W (ERP)	
1227.6 MHz	MO	24M0G1D	1 pW (ERP)	
1575.42 MHz	MO	24M0G1D	1 pW (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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.

Special Conditions:

- (4) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 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) The designated point-of-contact to terminate transmissions if interference occurs is Brian Kraemer (410) 682-0442 and (410) 491-5278.
- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the US Army contract number W31P4Q-04-C-0059. 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.
- (7) Area of potential interference to GPS reception is under the control of licensee.
- (8) EIRP is no greater than -140 dbm/24 MHz at 100 feet.
- (9) GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.
- (10) The test equipment shall only be used indoors and shall be under the control of Lockheed Martin Corp.
- (11) Lockheed Martin Corp. 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."