

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WG2XGA

(Call Sign)

0197-EX-RR-2016

(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(c) of the Commission's Rules

Station Locations

- (1) Fort Worth (TARRANT), TX - NL 32-46-38; WL 97-26-58
- (2) Fort Worth (TARRANT), TX - NL 32-46-34; WL 97-26-58
- (3) Fort Worth (TARRANT), TX - NL 32-46-40; WL 97-26-46

Frequency Information

Fort Worth (TARRANT), TX - NL 32-46-38; WL 97-26-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	39.8 pW (ERP)	
1575.42 MHz	FX	20M4W7D	39.8 pW (ERP)	

This authorization effective June 01, 2016 and
will expire 3:00 A.M. EST June 01, 2018

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Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
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Fort Worth (TARRANT), TX - NL 32-46-40; WL 97-26-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	39.8 pW (ERP)	
1575.42 MHz	FX	20M4W7D	39.8 pW (ERP)	

Special Conditions:

- (1) GPS re-radiators are limited to a maximum ERP value that will result in power levels not to exceed a power spectral density of -140 dBm/24 MHz measured at a distance of 100 ft outside the building of operation. Any malfunction, misalignment, or tampering of the equipment or its location which results in an increased power spectral density outside the building could cause harmful radio frequency interference to GPS receivers, including those in aircraft and/or ground based facilities.
- (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.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

Special Conditions:

- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number(s): N00019-09-C-0010, N00019-10-C-0002, N00019-11-C-0083, N00019-02-C-0004, N00019-13-C-0008, and N00019-02-C-3002. 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.
- (6) Operation is limited to activity for the purpose of testing radionavigation satellite service (RNSS) equipment and systems.
- (7) The test equipment shall only be used indoors and shall be under the control of Lockheed Martin Corporation.
- (8) Lockheed Martin Corporation 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."
- (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 designated point-of-contacts to terminate transmissions if interference occurs are ROGER BLACKBURN (817) 777-8387 , and JOHN VAN METER (817) 734-5987, and DON BARNETT (817) 692-0575.