

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

EXPERIMENTAL

(Nature of Service)

WE2XJZ

(Call Sign)

XD FX MO

(Class of Station)

0220-EX-RR-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(i) of the Commission's Rules

Station Locations

- (1) Sunnyvale (SANTA CLARA), CA - NL 37-24-55; WL 122-02-07; MOBILE: Temporary fixed location, Sunnyvale (SANTA CLARA), CA, within 2 km, centered around NL 37-24-55; WL 122-02-07
- (2) Gaithersburg, MD - NL 39-09-11; WL 77-12-58; MOBILE: Temporary fixed location, Gaithersburg, MD, within 1 km, centered around NL 39-09-11; WL 77-12-58
- (3) Clarksburg, MD - NL 39-13-09; WL 77-16-29; MOBILE: Temporary fixed location, Clarksburg, MD, within 2 km, centered around NL 39-13-09; WL 77-16-29
- (4) Suffolk, VA - NL 36-53-37; WL 76-26-09; MOBILE: Temporary fixed location, Suffolk, VA, within 1 km, centered around NL 36-53-37; WL 76-26-09
- (5) Fort Worth, TX - NL 32-45-30; WL 97-29-17; MOBILE: Temporary fixed location, Fort Worth, TX, within 5 km, centered around NL 32-45-30; WL 97-29-17

Frequency Information

Sunnyvale (SANTA CLARA), CA - NL 37-24-55; WL 122-02-07; MOBILE: Temporary fixed location, Sunnyvale (SANTA CLARA), CA, within 2 km, centered around NL 37-24-55; WL 122-02-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	5M73G1D	49.65 W (ERP)	
14-14.5 GHz	FX	5M73G1D	49.65 W (ERP)	

This authorization effective November 01, 2009 and
will expire 3:00 A.M. EST November 01, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Gaithersburg, MD - NL 39-09-11; WL 77-12-58; MOBILE: Temporary fixed location, Gaithersburg, MD, within 1 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	5M73G1D	49.65 W (ERP)	
14-14.5 GHz	FX	5M73G1D	49.65 W (ERP)	

Clarksburg, MD - NL 39-13-09; WL 77-16-29; MOBILE: Temporary fixed location, Clarkburg, MD, within 2 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	5M70G1D	49.65 W (ERP)	
14-14.5 GHz	MO	5M70G1D	49.65 W (ERP)	

Suffolk, VA - NL 36-53-37; WL 76-26-09; MOBILE: Temporary fixed location, Suffolk, VA, within 1 km, centered around NL 36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	5M73G1D	49.65 W (ERP)	
14-14.5 GHz	MO	5M73G1D	49.65 W (ERP)	

Frequency Information

Fort Worth, TX - NL 32-45-30; WL 97-29-17; MOBILE: Temporary fixed location, Fort Worth, TX, within 5 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	5M73G1D	49.65 W (ERP)	
14-14.5 GHz	MO	5M73G1D	49.65 W (ERP)	

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) POINTS OF COMMUNICATION: SES Americom AMC-6 and SES Americom AMC-9 Satellites.
- (4) No transmissions are permitted between 14.0 GHz and 14.2 GHz within 125 km of White Sands, NM (latitude: 32° 20' 59" N, longitude 106° 36' 31" W and latitude: 32° 32' 40" N, longitude 106° 36' 48" W).
- (5) No transmissions are permitted between 14.0 GHz and 14.2 GHz within 125 km of Blossom Point, MD (latitude: 38° 25' 44" N, longitude 77° 05' 20" W).
- (6) Licensee shall comply with the Minimum Angle of Antenna Elevation criteria set forth in Part 25.205 of the FCC's rules.
- (7) Note that if, during the term of this authorization, NASA seeks to provide protection to a future TDRSS site that has been coordinated through the National Telecommunications and Information Administration (NTIA) Interdepartment Radio Advisory Committee (IRAC) Frequency Assignment Subcommittee process, NTIA will notify the Commission that the site is nearing operational status. Upon notice from the Commission, licensee must cease operations in the 14.0-14.2 GHz band within 125 km of the new TDRSS site until Lockheed Martin Corp. has coordinated with the new site. After coordination, operations will then again be permitted in the 14.0-14.2 GHz band within 125 km of the new TDRSS site, subject to any operational constraints developed in the coordination process.
- (8) In accordance with Article 4.4 of the ITU Radio Regulations, the operations authorized herein shall not cause harmful interference to, and shall not claim protection from harmful interference caused by, a station operating in accordance with the provisions of the ITU Constitution, the ITU Convention, and the ITU Radio Regulations.