

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

EXPERIMENTAL

(Nature of Service)

WH2XLJ

(Call Sign)

XD FX MO

(Class of Station)

0560-EX-PL-2014

(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(j) of the Commission's Rules

Station Locations

- (1) Moorestown, NJ - NL 39-58-56; WL 74-54-28; MOBILE: Moorestown, NJ, within 1.85 km, centered around NL 39-58-56; WL 74-54-28

Frequency Information

Moorestown, NJ - NL 39-58-56; WL 74-54-28; MOBILE: Moorestown, NJ, within 1.85 km, centered around NL 39-58-56; WL 7

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4-4.1 MHz	MO	5K00W9W	30 W (ERP)	
4.3-4.4 MHz	MO	5K00W9W	30 W (ERP)	
4.6-4.7 MHz	MO	5K00W9W	30 W (ERP)	
5.2-5.6 MHz	MO	5K00W9W	30 W (ERP)	

This authorization effective December 04, 2014 and
will expire 3:00 A.M. EST December 01, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Moorestown, NJ - NL 39-58-56; WL 74-54-28; MOBILE: Moorestown, NJ, within 1.85 km, centered around NL 39-58-56; WL 7

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.2-6.8 MHz	MO	5K00W9W	30 W (ERP)	
7.4-7.8 MHz	MO	5K00W9W	30 W (ERP)	
8-8.8 MHz	MO	5K00W9W	30 W (ERP)	
31-31.5 MHz	MO	25K0W9W	30 W (ERP)	
32-32.5 MHz	MO	25K0W9W	30 W (ERP)	
33-35 MHz	MO	25K0W9W	30 W (ERP)	
44-47 MHz	MO	25K0W9W	30 W (ERP)	
57-57.5 MHz	MO	25K0W9W	30 W (ERP)	
58-61 MHz	MO	25K0W9W	30 W (ERP)	
69-69.5 MHz	MO	25K0W9W	30 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
70-74.6 MHz	MO	25K0W9W	30 W (ERP)	
138-139.5 MHz	MO	25K0W9W	30 W (ERP)	
141-142.9 MHz	MO	25K0W9W	30 W (ERP)	
145-146.5 MHz	MO	25K0W9W	30 W (ERP)	
147-149.9 MHz	MO	25K0W9W	30 W (ERP)	
152-153.5 MHz	MO	25K0W9W	30 W (ERP)	
154-156.9 MHz	MO	25K0W9W	30 W (ERP)	
159-160.5 MHz	MO	25K0W9W	30 W (ERP)	
161-163 MHz	MO	25K0W9W	30 W (ERP)	
166-167.5 MHz	MO	25K0W9W	30 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
168-170 MHz	MO	25K0W9W	30 W (ERP)	
910-932 MHz	MO	20M0W9W	30 W (ERP)	
2120-2200 MHz	MO	40M0W9W	1000 W (ERP)	
2410-2500 MHz	MO	40M0W9W	1000 W (ERP)	
3280-3400 MHz	MO	40M0W9W	1000 W (ERP)	
3660 MHz	MO	50M0W9W	1000 W (ERP)	
5600-7000 MHz	MO	200MW9W	1000 W (ERP)	
8000-8600 MHz	MO	400MW9W	1000 W (ERP)	
9600-12000 MHz	MO	400MW9W	1000 W (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) 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) Maintain separation from the grandfathered earth stations as defined in Part 90 subpart Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3650-3700 MHz.
- (4) Ensure that the operations will not cause harmful interference to any existing registered stations in the 3650-3700 MHz, and notify the registered users in the area.
- (5) Secure consents from the AWS licensees prior to accessing to 2120-2200 MHz.
- (6) Coordinate with the local SBE frequency coordinator and with the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d) prior to operation in the rest of the requested frequency bands.
- (7) No operation permitted in frequency bands 6.0-6.2 MHz and 7.3-7.4 MHz.
- (8) The following frequency bands must be notched out:
 - 162.2625-162.3125 MHz
 - 162.3375-162.3625 MHz
 - 162.4625-162.4875 MHz