

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

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WA2XSX

(Call Sign)

0424-EX-CR-2017

(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) MOBILE: West Palm Beach, FL, within 81 km, centered around NL 26-45-00; WL 80-00-00
- (2) MOBILE: Cazenovia, NY, within 50 km, centered around NL 42-52-36; WL 75-55-27

Frequency Information

MOBILE: West Palm Beach, FL, within 81 km, centered around NL 26-45-00; WL 80-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-32.5 MHz	MO	25K0G1D 25K0F1D	630 W (ERP)	
32.5-37.5 MHz	MO	25K0G1D 25K0F1D	630 W (ERP)	
37.5-40 MHz	MO	25K0G1D 25K0F1D	630 W (ERP)	

This authorization effective October 01, 2017 and
will expire 3:00 A.M. EST October 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: West Palm Beach, FL, within 81 km, centered around NL 26-45-00; WL 80-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
47.5-50 MHz	MO	25K0G1D 25K0F1D	630 W (ERP)	
1708 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1716 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1724 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1732 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1740 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1748 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	

Frequency Information

MOBILE: West Palm Beach, FL, within 81 km, centered around NL 26-45-00; WL 80-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1756 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1764 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1772 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1780 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1788 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1789 MHz	MO	16M0G1D	700 W (ERP)	
1789 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	

Frequency Information

MOBILE: West Palm Beach, FL, within 81 km, centered around NL 26-45-00; WL 80-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1796 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1804 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1809 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1812 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1820 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1828 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1836 MHz	MO	16M0G1D 25K0G1D	700 W (ERP)	

Frequency Information

MOBILE: West Palm Beach, FL, within 81 km, centered around NL 26-45-00; WL 80-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1836 MHz	MO	25K0F1D	700 W (ERP)	
1844 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1852 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1860 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1868 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1876 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1884 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	

Frequency Information

MOBILE: West Palm Beach, FL, within 81 km, centered around NL 26-45-00; WL 80-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1892 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1900 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1908 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1916 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1924 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1932 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1940 MHz	MO	16M0G1D 25K0G1D	700 W (ERP)	

Frequency Information

MOBILE: West Palm Beach, FL, within 81 km, centered around NL 26-45-00; WL 80-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1940 MHz	MO	25K0F1D	700 W (ERP)	
1948 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1956 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1964 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1972 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1980 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
2450-2483 MHz	MO	6M00A3F	20 W (ERP)	

Frequency Information

MOBILE: Cazenovia, NY, within 50 km, centered around NL 42-52-36; WL 75-55-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-32.5 MHz	MO	25K0F1D 25K0G1D	630 W (ERP)	
32.5-37.5 MHz	MO	25K0G1D 25K0F1D	630 W (ERP)	
37.5-40 MHz	MO	25K0F1D 25K0G1D	630 W (ERP)	
47.5-50 MHz	MO	25K0F1D 25K0G1D	630 W (ERP)	
1708 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1716 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1724 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1732 MHz	MO	16M0G1D 25K0G1D	700 W (ERP)	

Frequency Information

MOBILE: Cazenovia, NY, within 50 km, centered around NL 42-52-36; WL 75-55-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1732 MHz	MO	25K0F1D	700 W (ERP)	
1740 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1748 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1756 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1764 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1772 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1780 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	

Frequency Information

MOBILE: Cazenovia, NY, within 50 km, centered around NL 42-52-36; WL 75-55-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1788 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1789 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1796 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1804 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1809 MHz	MO	16M0G1D	700 W (ERP)	
1812 MHz	MO	16M0G1D	700 W (ERP)	
1820 MHz	MO	16M0G1D	700 W (ERP)	
1828 MHz	MO	16M0G1D 25K0G1D	700 W (ERP)	

Frequency Information

MOBILE: Cazenovia, NY, within 50 km, centered around NL 42-52-36; WL 75-55-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1828 MHz	MO	25K0F1D	700 W (ERP)	
1836 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1844 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1852 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1860 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1868 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1876 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	

Frequency Information

MOBILE: Cazenovia, NY, within 50 km, centered around NL 42-52-36; WL 75-55-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1884 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1892 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1900 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1908 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1916 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1924 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1932 MHz	MO	16M0G1D 25K0G1D	700 W (ERP)	

Frequency Information

MOBILE: Cazenovia, NY, within 50 km, centered around NL 42-52-36; WL 75-55-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1932 MHz	MO	25K0F1D	700 W (ERP)	
1940 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1948 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1956 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1964 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1972 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	
1980 MHz	MO	16M0G1D 25K0G1D 25K0F1D	700 W (ERP)	

Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.
- (2) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (3) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) 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.
- (6) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (7) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the US Government contract numbers: N00178-04-D-4016, subcontract number 223134, and N00024-10-G-6306, N00024-C-10-6266, N00024-15-G-6315, and 223192/DO HR18. 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.
- (8) All operations on frequencies in the 1850-1990 MHz and 2450-2483.5 MHz bands must be prior coordinated with existing fixed microwave stations in accordance with 47 CFR, Part 101.103(d).