Ryan N. Terry, 2121 Crystal Drive, Suite 100, Arlington, VA 22202,

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

EXPERIMENTAL	WI2XSE
(Nature of Service)	(Call Sign)
XC MO	0134-EX-CN-2016
(Class of Station)	(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: Yuma, AZ. Within 30 nm of coordinates Max alt 15000 ft, within 55.5 km, centered around NL 33-20-19; WL 114-17-34

(2) MOBILE: Hawthorne, NV. Within 30 nm of coordinates Max alt 15000 ft, within 55.5 km, centered around NL 38-15-00; WL 118-37-05

Frequency Information

MOBILE: Yuma, AZ. Within 30 nm of coordinates Max alt 15000 ft, within 55.5 km, centered around NL 33-20-19; WL 114-17-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1700 MHz	MO	280KF1D	1 W (ERP)	
1673.5-1755 MHz	MO	4M79G1D	2 W (ERP)	
2206 MHz	MO	9M58G1D	10 W (ERP)	

This authorization effective April 20, 2017 and
will expire 3:00 A.M. EST May 01, 2019

FEDERAL COMMUNICATIONS COMMISSION

Frequency Information

MOBILE: Yuma, AZ. Within 30 nm of coordinates Max alt 15000 ft, within 55.5 km, centered around NL 33-20-19; WL 114-17-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2224 MHz	MO	9M58G1D	10 W (ERP)	
2246 MHz	MO	9M58G1D	10 W (ERP)	
2283 MHz	MO	9M58G1D	10 W (ERP)	
2365-2375 MHz	MO	9M58G1D	10 W (ERP)	

MOBILE: Hawthorne, NV. Within 30 nm of coordinates Max alt 15000 ft, within 55.5 km, centered around NL 38-15-00; WL 118-37-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-1700 MHz	MO	280KF1D	1 W (ERP)	
1673.5-1755 MHz	MO	4M79G1D	2 W (ERP)	
2206 MHz	MO	9M58G1D	10 W (ERP)	
2224 MHz	MO	9M58G1D	10 W (ERP)	
2246 MHz	MO	9M58G1D	10 W (ERP)	

Frequency Information

MOBILE: Hawthorne, NV. Within 30 nm of coordinates Max alt 15000 ft, within 55.5 km, centered around NL 38-15-00; WL 118-37-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2283 MHz	MO	9M58G1D	10 W (ERP)	
2365-2375 MHz	MO	9M58G1D	10 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.

(3) 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.

(4) 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 USSOCOM-SORDAC-ST-14-01. 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.

(5) Operation is subject to notification of the 1670-1675 MHz Band licensee (Crown Castle International,) and the lessee (Ligado Networks.)

(6) Coordinate with DOD Area Frequency Coordinator. In AZ location, coordination must be initiated no less than 5 business days prior to intended testing and testing for any time period is not assured due to scheduled and ongoing test and training activates within the Yuma, AZ and Yuma Proving Ground, AZ. All operations must be registered with YPG spectrum management office through YPG test officer no less than 2 weeks prior to operation start date.

(7) All operations must be scheduled, coordinated through YPG UAS test office, in RTSS and YPG SMO SharePoint system page.

(8) 24/7 cease buzzer POC must be provided to YPG SMO and YPG Range control prior to operation.