

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WG2XAF

(Call Sign)

0099-EX-CR-2020

(File Number)

NAME Lockheed Martin Corporaiton

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) MOBILE: Fort Worth, TX, within 100 km, centered around NL 32-46-09; WL 97-26-30
- (2) MOBILE: Possum Kingdom Lake, TX, within 100 km, centered around NL 32-49-27; WL 98-32-38
- (3) MOBILE: Fort Sill, Lawton, OK, within 100 km, centered around NL 34-38-59; WL 98-24-08

Frequency Information

MOBILE: Fort Worth, TX, within 100 km, centered around NL 32-46-09; WL 97-26-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1782 MHz	MO		1 W (ERP)	
		1M23F1D		
		1M56F1D		
		2M40G1D		
		4M79G1D		
		720KF1D		
		972KF1D		
		1M62F1D		
		470KF1D		
		520KF1D		
		810KF1D		
		9M58G1D		

This authorization effective March 01, 2020 and
will expire 3:00 A.M. EST March 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Fort Worth, TX, within 100 km, centered around NL 32-46-09; WL 97-26-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1782 MHz	MO	1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
1800.5 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
1825.5 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D	1 W (ERP)	

Frequency Information

MOBILE: Fort Worth, TX, within 100 km, centered around NL 32-46-09; WL 97-26-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1825.5 MHz	MO	4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
1849 MHz	MO	1M23F1D 1M56F1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 1M94F1D	1 W (ERP)	
2201 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
2225.5 MHz	MO	1M23F1D 1M56F1D	1 W (ERP)	

Frequency Information

MOBILE: Fort Worth, TX, within 100 km, centered around NL 32-46-09; WL 97-26-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2225.5 MHz	MO	2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
2250 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
2275.5 MHz	MO	1M23F1D 1M56F1D 2M40G1D	1 W (ERP)	

Frequency Information

MOBILE: Fort Worth, TX, within 100 km, centered around NL 32-46-09; WL 97-26-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2275.5 MHz	MO	4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
4410 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4410 MHz	MO	18M5F9W	239.88 W (ERP)	
4430 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4430 MHz	MO	18M5F9W	239.88 W (ERP)	
4450 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	

Frequency Information

MOBILE: Fort Worth, TX, within 100 km, centered around NL 32-46-09; WL 97-26-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4450 MHz	MO	18M5F9W	239.88 W (ERP)	
4510 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4510 MHz	MO	18M5F9W	239.88 W (ERP)	
4590 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4590 MHz	MO	18M5F9W	239.88 W (ERP)	
4650 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4650 MHz	MO	18M5F9W	239.88 W (ERP)	
4670 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4670 MHz	MO	18M5F9W	239.88 W (ERP)	
4690 MHz	MO	17M0F9W	60.255 W (ERP)	

Frequency Information

MOBILE: Fort Worth, TX, within 100 km, centered around NL 32-46-09; WL 97-26-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4690 MHz	MO	1M62F1D	60.255 W (ERP)	
4690 MHz	MO	18M5F9W	239.88 W (ERP)	
4750 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4750 MHz	MO	18M5F9W	239.88 W (ERP)	
4790 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4790 MHz	MO	18M5F9W	239.88 W (ERP)	
4850 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4850 MHz	MO	18M5F9W	239.88 W (ERP)	
4930 MHz	MO	18M5F9W	239.88 W (ERP)	
4930 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	

Frequency Information

MOBILE: Fort Worth, TX, within 100 km, centered around NL 32-46-09; WL 97-26-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4930 MHz	MO	1M62F1D	60.255 W (ERP)	

MOBILE: Possum Kingdom Lake, TX, within 100 km, centered around NL 32-49-27; WL 98-32-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1782 MHz	MO	1M23F1D	1 W (ERP)	
		1M56F1D		
		2M40G1D		
		4M79G1D		
		720KF1D		
		972KF1D		
		1M62F1D		
		470KF1D		
		520KF1D		
		810KF1D		
		9M58G1D		
		1M94F1D		
		4M05F1D		
		6M48F1D		
		8M10F1D		
1800.5 MHz	MO	1M23F1D	1 W (ERP)	
		1M56F1D		
		2M40G1D		
		4M79G1D		
		720KF1D		
		972KF1D		
		1M62F1D		
		470KF1D		
		520KF1D		
		810KF1D		

Frequency Information

MOBILE: Possum Kingdom Lake, TX, within 100 km, centered around NL 32-49-27; WL 98-32-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1800.5 MHz	MO	9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
1825.5 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
1849 MHz	MO	1M23F1D 1M56F1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 1M94F1D	1 W (ERP)	

Frequency Information

MOBILE: Possum Kingdom Lake, TX, within 100 km, centered around NL 32-49-27; WL 98-32-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2201 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
2225.5 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
2250 MHz	MO	1M23F1D	1 W (ERP)	

Frequency Information

MOBILE: Possum Kingdom Lake, TX, within 100 km, centered around NL 32-49-27; WL 98-32-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2250 MHz	MO	1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
2275.5 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
4410 MHz	MO	17M0F9W	60.255 W (ERP)	

Frequency Information

MOBILE: Possum Kingdom Lake, TX, within 100 km, centered around NL 32-49-27; WL 98-32-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4410 MHz	MO	1M62F1D	60.255 W (ERP)	
4410 MHz	MO	18M5F9W	239.88 W (ERP)	
4430 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4430 MHz	MO	18M5F9W	239.88 W (ERP)	
4450 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4450 MHz	MO	18M5F9W	239.88 W (ERP)	
4510 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4510 MHz	MO	18M5F9W	239.88 W (ERP)	
4590 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	

Frequency Information

MOBILE: Possum Kingdom Lake, TX, within 100 km, centered around NL 32-49-27; WL 98-32-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4590 MHz	MO	18M5F9W	239.88 W (ERP)	
4650 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4650 MHz	MO	18M5F9W	239.88 W (ERP)	
4670 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4670 MHz	MO	18M5F9W	239.88 W (ERP)	
4690 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4690 MHz	MO	18M5F9W	239.88 W (ERP)	
4750 MHz	MO	18M5F9W	239.88 W (ERP)	
4750 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	

Frequency Information

MOBILE: Possum Kingdom Lake, TX, within 100 km, centered around NL 32-49-27; WL 98-32-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4790 MHz	MO	18M5F9W	239.88 W (ERP)	
4790 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4850 MHz	MO	18M5F9W	239.88 W (ERP)	
4850 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4930 MHz	MO	18M5F9W	239.88 W (ERP)	
4930 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	

MOBILE: Fort Sill, Lawton, OK, within 100 km, centered around NL 34-38-59; WL 98-24-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1782 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D	1 W (ERP)	

Frequency Information

MOBILE: Fort Sill, Lawton, OK, within 100 km, centered around NL 34-38-59; WL 98-24-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1782 MHz	MO	470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
1800.5 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
1825.5 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D	1 W (ERP)	

Frequency Information

MOBILE: Fort Sill, Lawton, OK, within 100 km, centered around NL 34-38-59; WL 98-24-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1825.5 MHz	MO	520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
1849 MHz	MO	1M23F1D 1M56F1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 1M94F1D	1 W (ERP)	
2201 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D	1 W (ERP)	

Frequency Information

MOBILE: Fort Sill, Lawton, OK, within 100 km, centered around NL 34-38-59; WL 98-24-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2201 MHz	MO	8M10F1D	1 W (ERP)	
2225.5 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
2250 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D	1 W (ERP)	

Frequency Information

MOBILE: Fort Sill, Lawton, OK, within 100 km, centered around NL 34-38-59; WL 98-24-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2250 MHz	MO	8M10F1D	1 W (ERP)	
2275.5 MHz	MO	1M23F1D 1M56F1D 2M40G1D 4M79G1D 720KF1D 972KF1D 1M62F1D 470KF1D 520KF1D 810KF1D 9M58G1D 1M94F1D 4M05F1D 6M48F1D 8M10F1D	1 W (ERP)	
4410 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4410 MHz	MO	18M5F9W	239.88 W (ERP)	
4430 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4430 MHz	MO	18M5F9W	239.88 W (ERP)	

Frequency Information

MOBILE: Fort Sill, Lawton, OK, within 100 km, centered around NL 34-38-59; WL 98-24-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4450 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4450 MHz	MO	18M5F9W	239.88 W (ERP)	
4510 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4510 MHz	MO	18M5F9W	239.88 W (ERP)	
4590 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4590 MHz	MO	18M5F9W	239.88 W (ERP)	
4650 MHz	MO	18M5F9W	239.88 W (ERP)	
4650 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4670 MHz	MO	18M5F9W	239.88 W (ERP)	
4670 MHz	MO	17M0F9W	60.255 W (ERP)	

Frequency Information

MOBILE: Fort Sill, Lawton, OK, within 100 km, centered around NL 34-38-59; WL 98-24-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4670 MHz	MO	1M62F1D	60.255 W (ERP)	
4690 MHz	MO	18M5F9W	239.88 W (ERP)	
4690 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4750 MHz	MO	18M5F9W	239.88 W (ERP)	
4750 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4790 MHz	MO	18M5F9W	239.88 W (ERP)	
4790 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	
4850 MHz	MO	18M5F9W	239.88 W (ERP)	
4850 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	

Frequency Information

MOBILE: Fort Sill, Lawton, OK, within 100 km, centered around NL 34-38-59; WL 98-24-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4930 MHz	MO	18M5F9W	239.88 W (ERP)	
4930 MHz	MO	17M0F9W 1M62F1D	60.255 W (ERP)	

Special Conditions:

- (1) 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.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) 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.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.