

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

EXPERIMENTAL

(Nature of Service)

WF2XKL

(Call Sign)

XD FX MO

(Class of Station)

0291-EX-CR-2018

(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) Syracuse (ONONDAGA), NY - NL 43-06-43; WL 76-11-18; MOBILE: Syracuse [ONONDAGA], NY, within 2 km, centered around NL 43-06-43; WL 76-11-18

Frequency Information

Syracuse (ONONDAGA), NY - NL 43-06-43; WL 76-11-18; MOBILE: Syracuse [ONONDAGA], NY, within 2 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	FX	10M3M1D	407.4 kW (ERP)	
1030 MHz	MO	10M3M1D	407.4 kW (ERP)	
1090 MHz	FX	10M3M1D	1 W (ERP)	

This authorization effective July 01, 2018 and
will expire 3:00 A.M. EST July 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) Assignment on 1030 MHz or in one of the bands 1215-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Eastern Coordinator, New York, NY. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Eastern Coordinator, New York, NY, as necessary to ensure compatibility with existing uses.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) Operations on 1030 MHz will be in accordance with the following restrictions:
 - a) PRR = 175 pps
 - b) Pulse Duration = FX 0.8 usec
 - c) Radius of operation = 2 kilometers
 - d) Only modes 1,2,3A and C are allowed to transmit
 - e) Blanking is required in azimuth direction 45-55, 63-85, 175-190 AND 230-255 degrees referenced to true north
 - f) Equipment is restricted to operating only the average interrogation rate.
- (6) Operations on 1090 MHz will be in accordance with the following restrictions:
 - a) ERP = 1 W peak
 - b) PRR = 175 pps
 - c) Pulse Duration = FX 0.45 usec
 - d) Only modes 1,2,3A and C are allowed
 - e) Unit must be operated under a hood with dummy load, or directly connected via cable to the aircraft receiver to reduce free space radiation
 - f) Altitude setting for mode C response must be below sea level or above 90K feet to avoid TCAS alert.