

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

EXPERIMENTAL

(Nature of Service)

WJ2XPM

(Call Sign)

XD FX MO

(Class of Station)

0441-EX-TC-2019

(File Number)

NAME Raytheon Company

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) Muscatatuck MUTC (JENNINGS), IN - NL 39-02-58; WL 85-31-43; MOBILE:
Muscatatuck MUTC, IN, within 100 km, centered around NL 39-02-58; WL 85-31-43

Frequency Information

Muscatatuck MUTC (JENNINGS), IN - NL 39-02-58; WL 85-31-43; MOBILE: Muscatatuck MUTC, IN, within 100 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3-3.1 GHz	MO	2M12P0N	11585.377 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) 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) Raytheon SAS be aware that the radar may not be used for UAS Detect and Avoid purposes. These purposes include, maintaining well clear separation; providing collision avoidance between UAS or between UAS and other aircraft; providing situational awareness information to UAS pilots; and replacing FAA required visual observers.

This authorization effective January 23, 2020 and
will expire 3:00 A.M. EST March 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (5) Raytheon SAS be aware that UAS Detect and Avoid systems will need to operate in frequency bands allocated to the Aeronautical Radionavigation Service.
- (6) Raytheon SAS shall limit all operations to altitudes below 400 feet above ground level.
- (7) Raytheon SAS shall limit all operations using unmanned aircraft to a maximum of 55 pounds, including the radar system.
- (8) Raytheon SAS shall limit all operations to visual line-of-sight of the UAS pilot.
- (9) Stop Buzzer is Hooman Kazemi at (909) 294-9543.