

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WM9XLO

(Call Sign)

XT MO

(Class of Station)

0256-EX-ST-2018

(File Number)

NAME Raytheon SAS

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Raytheons purpose is to flight test and demonstrate the capture of phenomenology data.

Station Locations

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

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3-3.1 GHz	MO	2M12P0N	11585.377 W (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

This authorization effective March 18, 2018 and
will expire 3:00 A.M. EST September 18, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (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.
- (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.