

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WM9XMI

(Call Sign)

1179-EX-ST-2018

(File Number)

NAME Raytheon Missile Systems

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:

Test the command and control and telemetry of UAS operations.

Station Locations

- (1) 29 Palms (SAN BERNARDINO), CA - NL 34-22-26; WL 115-56-04; MOBILE: 29 Palms, CA, within 6 km, centered around NL 34-22-26; WL 115-56-04

Frequency Information

29 Palms (SAN BERNARDINO), CA - NL 34-22-26; WL 115-56-04; MOBILE: 29 Palms, CA, within 6 km, centered around NL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2312-2507 MHz			17.23 W (ERP)	
		3M85G1D		
		7M70G1D		
		4M06D1D		
		8M13D1D		
		15M4G1D		
		16M3D1D		
		32M5D1D		

This authorization effective September 05, 2018 and
will expire 3:00 A.M. EST January 19, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the Area Frequency Coordinator, Ft. Huachuca, AZ, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the AFC, Ft. Huachuca, as necessary to ensure compatibility with existing uses.
- (2) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.
- (6) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (8) Stop buzzer point of contact is Bart Turner at (520) 794-0227.
- (9) Operations in the 2320-2345 MHz band must be in compliance with the coordination agreements reached between the Licensee and Sirius/XM.
- (10) Operations in the band 2312-2320 MHz and 2345-2360 MHz must comply with the emission limits applicable to these band. See 47 C.F.R. § 27.53(a).
- (11) UASs authorized herein must not be used for air traffic control communications.
- (12) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.
- (13) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (14) Raytheon Missile Systems must ensure that the UAS operations are limited to the Twenty-nine Palms range complex as outlined in the application's attachment.