

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

EXPERIMENTAL

(Nature of Service)

WM2XBU

(Call Sign)

XC MO

(Class of Station)

0735-EX-CN-2021

(File Number)

NAME Raytheon Company (Missiles and Defense - M)

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(c) of the Commission's Rules

Station Locations

- (1) MOBILE: Airborne at White Sands Missile Range, within 115 km, centered around NL 33-21-50; WL 106-25-34

Frequency Information

MOBILE: Airborne at White Sands Missile Range, within 115 km, centered around NL 33-21-50; WL 106-25-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2210 MHz	MO	20M8F7D	0.5 W (ERP)	
2235 MHz	MO	20M8F7D	0.5 W (ERP)	
2260 MHz	MO	20M8F7D	0.5 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.

This authorization effective September 30, 2021 and
will expire 3:00 A.M. EST October 01, 2023

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Special Conditions:

- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) Raytheon Company (Missiles and Defense - M) operations must be scheduled as a White Sands Missile Range (WSMR) mission, through their WSMR Range sponsor. Final authority to radiate is contingent upon successful scheduling, and de-confliction, of both spectrum, and airspace, with other regional operations.
- (5) Due to the operating area's proximity to the Very Large Array (VLA) and the proposed frequency band of operation, NSF requests that the applicant (Raytheon Company (Missiles and Defense - M)) coordinate prior to operation with the VLA point of contact: Dan "Mert" Mertely, nrao-rfi@nrao.edu, phone: (575) 835-7128.
- (6) Raytheon Company (Missiles and Defense - M) coordinates with the Naval Surface Warfare Center, Dahlgren Division (NSWCDD) a minimum of sixty (60) days prior to the flight test, to mitigate harmful interference to Navy/Marine Corps/DoD operations. The primary contacts for frequency coordination: Mr. James Moneyhon, (540) 653-3477- james.moneyhon@navy.mil, Mr. A. Jason Verdugo, (540) 653-9590 – Anthony.J.Verdugo@navy.mil, and/or Mr. Phillip B. Scyphers, (540) 653-6071 – Phillip.scyphers@navy.mil.
- (7) The designated point-of-contact to terminate transmissions if interference occurs are Jim Ortega at (520) 794-0227, and Joshua Salmon at Joshua.salmon@raytheon.com
- (8) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (9) Notification shall be provided to the NASA GSFC SM office at NASA-DL-GSFC-SPECTRUM- SPECTRUM-MANAGEMENT(AT)MAIL.NASA.GOV, at least 3 days prior to operation.
- (10) No airborne operation in 2290-2300 MHz band.