

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

EXPERIMENTAL

(Nature of Service)

WL2XMV

(Call Sign)

XD FX MO

(Class of Station)

0212-EX-CM-2021

(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 k) of the Commission's Rules

Station Locations

- (1) Oxford (SUMTER), FL - NL 28-55-09; WL 82-02-06
- (2) Oxford (SUMTER), FL - NL 28-56-38; WL 82-02-00; MOBILE: Oxford, FL, within 3 km, centered around NL 28-56-38; WL 82-02-00

Frequency Information

Oxford (SUMTER), FL - NL 28-55-09; WL 82-02-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9010 MHz	FX	12M0Q3N 12M0Q3N	953.4 kW (ERP)	
9190 MHz	FX	12M0Q3N 12M0Q3N	953.4 kW (ERP)	
9550-9650 MHz	FX	12M0Q3N 12M0Q3N	953.4 kW (ERP)	

This authorization effective October 22, 2021 and
will expire 3:00 A.M. EST March 01, 2023

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Frequency Information

Oxford (SUMTER), FL - NL 28-55-09; WL 82-02-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9550-9650 MHz	FX	12M0Q3N 12M0Q3N	953.4 kW (ERP)	

Oxford (SUMTER), FL - NL 28-56-38; WL 82-02-00; MOBILE: Oxford, FL, within 3 km, centered around NL 28-56-38; WL 82-0

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9010 MHz	FX	12M0Q3N 12M0Q3N	953.4 kW (ERP)	
9010 MHz	MO	12M0Q3N 12M0Q3N	953.4 kW (ERP)	
9190 MHz	MO	12M0Q3N 12M0Q3N	953.4 kW (ERP)	
9190 MHz	FX	12M0Q3N 12M0Q3N	953.4 kW (ERP)	
9550-9650 MHz	FX	12M0Q3N 12M0Q3N	953.4 kW (ERP)	
9550-9650 MHz	MO	12M0Q3N 12M0Q3N	953.4 kW (ERP)	

Special Conditions:

- (1) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (2) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (5) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.
- (6) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (7) 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.
- (8) The stop buzzer POCs are Ed Peltier at (774) 329-1031, and Michael Dubois at (508) 353-6317.
- (9) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (10) The direction of antenna boresight must be set 70-80 deg such that azimuth coverage must contains between 20 and 130 deg reference to true north only.
- (11) This authorization SUPERSEDES the previously issued authorization with the same call sign and file number: adding special conditions 1, 4 , 5 and station class (k).