

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WJ2XMC

(Call Sign)

0363-EX-CN-2018

(File Number)

NAME IMSAR LLC

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) MOBILE: On aircraft at 10,000 feet MSL or below, within 55 km, centered around NL 31-53-51; WL 112-28-50
- (2) MOBILE: On aircraft at 10,000 feet MSL or below, within 75 km, centered around NL 31-46-22; WL 111-18-47

Frequency Information

MOBILE: On aircraft at 10,000 feet MSL or below, within 55 km, centered around NL 31-53-51; WL 112-28-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2500 MHz	MO	20M0D7W	97 W (ERP)	
24.4-26.2 GHz	MO	1G80F0N	484 W (ERP)	

This authorization effective June 06, 2018 and
will expire 3:00 A.M. EST June 01, 2020

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Special Conditions:

- (1) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (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) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (7) The operations of 1.2 meter stations must be in compliance with EIRP density as defined by §25.208(v) of the Commission's Rules.
- (8) The 1.2 meter stations must be monitored and controlled by a ground-based network control and monitoring center. Such stations must be able to receive "enable transmission" and "disable transmission" commands from the network control center and must cease transmission immediately after receiving a "parameter change" command until receiving an "enable transmission" command from the network control center. The network control center must monitor operation of each earth station to determine if it is malfunctioning, and each earth station must self-monitor and automatically cease transmission on detecting an operational fault that could cause harmful interference to a satellite service network.
- (9) ESAAs must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (10) Stop buzzer POC is Josh Snook at (801) 598-2843, josh.snook@imsar.com