

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

EXPERIMENTAL

(Nature of Service)

WM9XDM

(Call Sign)

XT MO

(Class of Station)

1714-EX-ST-2017

(File Number)

NAME IMSAR LLC

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:

Demonstrate the capabilities and benefits of small synthetic aperture radars, in a variety of terrain, vegetation, and atmospheric conditions. Operations will be on a manned platform.

Station Locations

- (1) MOBILE: Hunstville, AL. On aircraft at 14,000 feet MSL or below, within 3.5 km, centered around NL 34-38-30; WL 86-46-46
- (2) MOBILE: Athens, AL. On aircraft at 14,000 feet MSL or below, within 3.5 km, centered around NL 34-43-50; WL 86-55-24

Frequency Information

MOBILE: Hunstville, AL. On aircraft at 14,000 feet MSL or below, within 3.5 km, centered around NL 34-38-30; WL 86-46-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-17.2 GHz	MO	1G80F0N	484 W (ERP)	
16.3-17.2 GHz	MO	900MF0N	484 W (ERP)	

This authorization effective December 20, 2017 and
will expire 3:00 A.M. EST February 01, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Athens, AL. On aircraft at 14,000 feet MSL or below, within 3.5 km, centered around NL 34-43-50; WL 86-55-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-17.2 GHz	MO	1G80F0N	484 W (ERP)	
16.3-17.2 GHz	MO	900MF0N	484 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.
- (3) No portion of the radiated emissions shall extend below 15.4 GHz in order to protect NASA passive sensors (Footnote US246).
- (4) Technical information substantiating the levels of radiation produced below 15.4 GHz and any filtering techniques employed shall be provided to the NASA GSFC Spectrum Manager, Scott Galbraith at 301.286.5089 or vincent.s.galbraith@nasa.gov.
- (5) The stop buzzer point of contact is Josh Snook at (801) 798-8440.