

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

EXPERIMENTAL

(Nature of Service)

WK9XJS

(Call Sign)

XT MO

(Class of Station)

1226-EX-ST-2016

(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:

To investigate 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: Fort Polk, LA On aircraft at 6,000 feet AGL or below, within 20 km, centered around NL 31-04-25; WL 93-12-09

Frequency Information

MOBILE: Fort Polk, LA On aircraft at 6,000 feet AGL or below, within 20 km, centered around NL 31-04-25; WL 93-12-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1850 MHz	MO	28M7G1D	2 W (ERP)	

Special Conditions:

- (1) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

This authorization effective September 19, 2016 and
will expire 3:00 A.M. EST November 17, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) 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.
- (4) The FAA non-concurs with 400-1600 MHz due to tabling at the SPS (SPS-21135/3). Multiple issues regarding notching bands –especially L-band radars and GPS L1 – must addressed thru the certification process before the FAA will consider approval in those bands for IMSAR.
- (5) The FAA non-concurs with 15.7-17.2 GHz due to noncompliance with the current SPS certification (SPS-21612/1). The emissions and location does not match. Also the SPS has issued a data adequacy notice for this system (SPS-20258/1) which needs to be addressed prior to any operation of this system.
- (6) The following conditions, as previously coordinated with IMSAR, Mr. Riley Hansen, of the IMSAR Demonstration Team, in August 2016 and the Ft. Polk Spectrum Manger must be adhered to:
 - a. Prior to the start of operations, IMSAR must provide a stop buzzer point of contact to the Ft Polk Spectrum Manager and to Lori Poppenhager, 301-225-3778, lori.a.poppenhager.civ@mail.mil or Melvin Ford, 301-225-3761, Melvin.r.ford.civ@mail.mil .
 - b. In the band 1710-1850 MHz, the Downlink must operate on M1840 and EMS is limited to 18M5F9W
 - c. Army does not concur with the use of the 2365-2455 MHz band as portions of the band are allocated exclusively for federal use under Footnote G2.