

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

EXPERIMENTAL

(Nature of Service)

WK9XRX

(Call Sign)

XC MO

(Class of Station)

1708-EX-ST-2016

(File Number)

NAME Leidos, Inc.

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:

This STA will support Leidos' integration, testing and fielding various radio systems into multiple aircraft that are directly supporting the warfighter in combat zones worldwide.

Station Locations

- (1) MOBILE: Temporary Fixed Ground Operations Bridgewater VA, within 1 km, centered around NL 38-22-00; WL 78-57-37
- (2) MOBILE: Mobile Airborne Operations, within 128 km, centered around NL 38-22-00; WL 78-57-37

Frequency Information

MOBILE: Temporary Fixed Ground Operations Bridgewater VA, within 1 km, centered around NL 38-22-00; WL 78-57-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150-174 MHz	MO	12K5K3E 12K5F3E	50 W (ERP)	
421-512 MHz	MO	16K0F3E 16K0K3E	50 W (ERP)	

This authorization effective January 17, 2017 and
will expire 3:00 A.M. EST July 18, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Mobile Airborne Operations, within 128 km, centered around NL 38-22-00; WL 78-57-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150-174 MHz	MO	12K5F3E 12K5K3E	50 W (ERP)	
421-512 MHz	MO	16K0F3E 16K0K3E	50 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) 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.
- (4) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (5) Leidos must not utilize 156.6500 MHz (Maritime Marine Channel 13) as it is designated for Bridge to Bridge Communications between ships/vessels on navigable waters and at sea. Interference could interfere with the safe navigation of vessels transiting inside the test area.
- (6) The following frequencies are protected by ITU Radio Regulations from any possible interference due to Distress or Search and Rescue designations:

M156.8000 Channel 16 Intl Calling and Distress
M156.5250 Channel 70 Digital Select Calling (DSC)
M161.9750 AIS I
M162.0250 AIS II

- (7) Leidos must not utilize the following frequencies +/- 12.5 kHz due to possible interference with Coast Guard operations or Coast Guard to public communications on Maritime Marine Band channels:

M156.3000 , M156.6000 , M157.0500 , M157.0750 , M157.1000 , M157.1500 ,
M157.1750

Special Conditions:

- (8) Leidos must not utilize the following frequencies +/- 6.26 kHz due to possible interference to Coast Guard Law Enforcement and other Command and Control operations:
- M162.3250 , M163.0500 , M164.3000 , M164.9000 , M165.3125 , M165.3375 , M171.3375
- (9) Leidos must notch the following frequencies +/- 6.25 kHz to protect Department of Interior operations that fall within the Radio Line Of Sight (RLOS) radius (approx.. 300 km) of the airborne component of this STA based on an altitude of 4527 Meters (15000 feet) AGL:

M162.1625	M162.2375	M162.5937	M163.1250
M163.1500	M163.1750	M163.3375	M163.5750
M163.7125	M164.0875	M164.1625	M164.4250
M164.4750	M164.5250	M164.5750	M164.6250
M164.7250	M164.7750	M164.8375	M165.4500
M165.9750	M166.0875	M166.2750	M166.3000
M166.3125	M166.3250	M166.3375	M166.3500
M166.3625	M166.8500	M166.9000	M166.9125
M166.9250	M166.9375	M166.9500	M167.1375
M167.1500	M167.9875	M168.3250	M168.4250
M168.5000	M168.6125	M168.6375	M169.1250
M169.3625	M169.4375	M169.5500	M169.6250
M169.6500	M169.6875	M169.7000	M169.7125
M169.7750	M169.7875	M169.8125	M169.8250
M169.9875	M170.0250	M170.0500	M170.1000
M170.3625	M170.3875	M170.5125	M171.6500
M171.6750	M171.7000	M171.7250	M171.7750
M171.8625	M172.1375	M172.4000	M172.4250
M172.4375	M172.4500	M172.4625	M172.4750
M172.5000	M172.5250	M172.6500	M172.6750
M172.7250	M172.7500	M172.8125	M173.6250
M173.6750	M173.7625	M173.825	

- (10) Operation is subject to notification of the following within 200 miles of the test area:
- Paging Service licensees in 152 MHz, 158 MHz, and 152 MHz/158 MHz and 454 MHz/459 MHz
 - General Aviation Air-Ground Service in 454 MHz/459 MHz
- (11) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract numbers W911QX-16-C-0012, W15P7T-10-D-D420/0007, and CRN315177W909MY-15-C-0031. 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.
- (12) Stop Buzzers are Joe Waddell – (540) 831-0261 and Richard Anderson – (540) 849-9955.
- (13) No fixed operations permitted.

Special Conditions:

- (14) Operations in the band 420-470 MHz under the authority of this license are subject to immediate adjustment, including cessation, if they result in harmful interference to the NASA Firefly satellite system.
- (15) Operation is subject to coordination prior to activation and, as appropriate, possible scheduling with Paulette Woody, pwoody@nrao.edu, (304) 456-2107, when used within 20 nautical miles of the National Radio Quiet Zone.