

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

EXPERIMENTAL

(Nature of Service)

WK9XSC

(Call Sign)

XC MO

(Class of Station)

1755-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:

Leidos wishes to test functionality and evaluate the performance of the ViaSat VR-18 SATCOM terminal that is installed on Leidos' de Havilland dash-8 aircraft.

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: Bridgewater, VA Airborne Operations, within 200 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 (+/-)
14-14.393 GHz	MO	10M0G1W	20 W (ERP)	

This authorization effective January 25, 2017 and
will expire 3:00 A.M. EST July 26, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Bridgewater, VA Airborne Operations, within 200 km, centered around NL 38-22-00; WL 78-57-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.393 GHz	MO	10M0G1W	20 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) Operation not permitted in the band 14.393-14.50 GHz to protect the Air Force operations.
- (4) 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 number W15P7T-10-D-D420/0007. 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.
- (5) No fixed operations permitted.
- (6) 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.
- (7) Stop Buzzers are Joe Waddell – (540) 831-0261 and Richard Anderson – (540) 849-9955.
- (8) 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.
- (9) Airborne uplink operations must comply with the requirements in 47 C.F.R. 25.227.
- (10) Operation pursuant to this authorization must be in compliance with the terms of Leidos, Inc.'s coordination agreements with the National Science Foundation and the National Aeronautics and Space Administration pertaining to operation of earth stations aboard aircraft (ESAA) in the Ku-Band.
- (11) Point of communication: SES-2 satellite network at 87 degrees West longitude

Special Conditions:

- (12) Leidos, Inc., must take all necessary measures to ensure that the operation authorized does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers. The licensee shall ensure installation of terminals on aircraft by qualified installers who have an understanding of the antenna's radiation environment and the measures best suited to maximize protection of the general public and persons operating the aircraft and equipment. A terminal exhibiting radiation exposure levels exceeding 1.0 mW/cm² in accessible areas, such as at the exterior surface of the radome, shall have a label attached to the surface of the terminal warning about the radiation hazard and shall include thereon a diagram showing the regions around the terminal where the radiation levels could exceed 1.0 mW/cm².
- (13) This license SUPERSEDES the previously issued license with the same call sign and file number: adding special conditions 9 through 12.