

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

EXPERIMENTAL

(Nature of Service)

WN9XLO

(Call Sign)

XC MO

(Class of Station)

1582-EX-ST-2018

(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 L-3 Directional Tactical Common Data Link (D-TCDL) using the Extended Network Terminal.

Station Locations

- (1) MOBILE: Airborne Operations Around Bridgewater VA, within 64.5 km, centered around NL 38-22-00; WL 78-57-37
- (2) MOBILE: Temporary Fixed Ground Operations Bridgewater VA, within 1 km, centered around NL 38-22-00; WL 78-57-37
- (3) MOBILE: Airborne Operations Around Manassas VA, within 370 km, centered around NL 38-43-15; WL 77-30-54
- (4) MOBILE: Temporary Fixed Ground Operations Manassas VA, within 1 km, centered around NL 38-43-15; WL 77-30-54

Frequency Information

MOBILE: Airborne Operations Around Bridgewater VA, within 64.5 km, centered around NL 38-22-00; WL 78-57-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1790 MHz	MO	9M58G1D	20 W (ERP)	0.5 %

This authorization effective October 15, 2018 and
will expire 3:00 A.M. EST April 16, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Airborne Operations Around Bridgewater VA, within 64.5 km, centered around NL 38-22-00; WL 78-57-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
4400-4460 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
5250-5850 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
9.75-9.95 GHz	MO	42M8G1D 64M0G1D	316 W (ERP)	0.5 %
10.15-10.45 GHz	MO	42M8G1D 64M0G1D	316 W (ERP)	0.5 %
14.4-14.83 GHz	MO	42M8G1D 8M00G1D	20 W (ERP)	0.5 %
15.15-15.35 GHz	MO	64M0G1D	20 W (ERP)	0.5 %

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 (+/-)
1710-1790 MHz	MO	9M58G1D	20 W (ERP)	0.5 %

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 (+/-)
2400-2483.5 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
2483.5-2500 MHz	MO	9M58G1D	0.5 W (ERP)	0.5 %
4400-4460 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
5250-5850 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
9.75-9.95 GHz	MO	42M8G1D 64M0G1D	316 W (ERP)	0.5 %
10.15-10.45 GHz	MO	42M8G1D 64M0G1D	316 W (ERP)	0.5 %
14.4-14.83 GHz	MO	42M8G1D 8M00G1D	20 W (ERP)	0.5 %
15.15-15.35 GHz	MO	64M0G1D	20 W (ERP)	0.5 %

Frequency Information

MOBILE: Airborne Operations Around Manassas VA, within 370 km, centered around NL 38-43-15; WL 77-30-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1775 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
2400-2483.5 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
4900-4940 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
5250-5600 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
5650-5850 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
9.75-9.95 GHz	MO	42M8G1D 64M0G1D	316 W (ERP)	0.5 %
10.15-10.45 GHz	MO	42M8G1D 64M0G1D	316 W (ERP)	0.5 %
14.75-14.83 GHz	MO	42M8G1D 8M00G1D	20 W (ERP)	0.5 %

Frequency Information

MOBILE: Temporary Fixed Ground Operations Manassas VA, within 1 km, centered around NL 38-43-15; WL 77-30-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1775 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
2400-2483.5 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
2483.5-2500 MHz	MO	9M58G1D	0.5 W (ERP)	0.5 %
4900-4940 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
5250-5600 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
5650-5850 MHz	MO	9M58G1D	20 W (ERP)	0.5 %
9.75-9.95 GHz	MO	42M8G1D 64M0G1D	316 W (ERP)	0.5 %
10.15-10.45 GHz	MO	42M8G1D 64M0G1D	316 W (ERP)	0.5 %
14.75-14.83 GHz	MO	42M8G1D 8M00G1D	20 W (ERP)	0.5 %

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.
- (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) Coordinate with the local Society of Broadcast Engineers frequency coordinator and the affected Fixed Microwave Service licensees prior to operation in 2400-2483.5 MHz band.
- (5) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (6) The authorized station herein must not be used for air traffic control communications.
- (7) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (8) NTIA advises Leidos, Inc. to be cautious of the Dedicated Short Range Communication System (DSRC) being fielded across the country and out of band emissions should be limited in order to not interfere with this system. The system is operational along I-66 in northern VA as well as other roadways.
- (9) Leidos, Inc. must schedule at least 10-working days in advance, airborne operations at/around Manassas, VA, through RTPS PES to protect Navy and Marine Corps 2200-2290 MHz/4400-4940 MHz telemetry assignments. Real Time Telemetry Processing System (RTPS) Project Engineer Stations (PES) at NAS Patuxent River 301-342-1542.
- (10) At the Bridgewater, VA location:
Leidos, Inc. must not operate in the 1790 – 1850 MHz, 2200 – 2300 MHz, and the 4460 – 4940 MHz bands due to potential interference with operations in the area
- (11) At the Manassas, VA location:
Leidos, Inc. must not operate in the 1775 – 1850 MHz, 2200 – 2300 MHz, 4400 – 4900 MHz, 5600 – 5650 MHz, 14.4 – 14.75 GHz, and the 15.15 – 15.35 GHz bands due to potential interference with operations in the area.
- (12) 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.
- (13) 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 W56KGY-16-D-0001. 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.

Special Conditions:

(14) Stop buzzer contacts:

DONALD PETTIT -703-785-2194

JORDAN FETTIG- 815-915-3311