

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

EXPERIMENTAL

(Nature of Service)

WN9XOE

(Call Sign)

XC MO

(Class of Station)

1695-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:

The proposed operation – comprised of both ground-based and airborne transmissions – will be used to test the mobile aircraft mounted communications suite for system reliability and

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: 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: 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 (+/-)
27-33.1 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	

This authorization effective November 05, 2018 and
will expire 3:00 A.M. EST May 06, 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 (+/-)
45-51.55 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	
84-90.9 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	
147-148 MHz	MO	25K0F3E	20 W (ERP)	
158-159 MHz	MO	25K0F3E	20 W (ERP)	
174-175.2 MHz	MO	25K0F3E	20 W (ERP)	
223-225 MHz	MO	25K0F1D 1M20G1D 25K0F3E	20 W (ERP)	
400-402.7 MHz	MO	25K0F1D 1M20G1D 25K0F3E	20 W (ERP)	
437-443 MHz	MO	25K0F3E	20 W (ERP)	
507-513 MHz	MO	25K0F3E	20 W (ERP)	

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 (+/-)
528-534 MHz	MO	25K0F3E	20 W (ERP)	
726-732 MHz	MO	25K0F3E	20 W (ERP)	
946-952 MHz	MO	25K0F3E	20 W (ERP)	

MOBILE: 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 (+/-)
27-33.1 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	
45-51.55 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	
84-90.9 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	
147-148 MHz	MO	25K0F3E	20 W (ERP)	
158-159 MHz	MO	25K0F3E	20 W (ERP)	

Frequency Information

MOBILE: 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 (+/-)
174-175.2 MHz	MO	25K0F3E	20 W (ERP)	
223-225 MHz	MO	25K0F1D 1M20G1D 25K0F3E	20 W (ERP)	
400-402.7 MHz	MO	25K0F1D 1M20G1D 25K0F3E	20 W (ERP)	
437-443 MHz	MO	25K0F3E	20 W (ERP)	
507-513 MHz	MO	25K0F3E	20 W (ERP)	
528-534 MHz	MO	25K0F3E	20 W (ERP)	
726-732 MHz	MO	25K0F3E	20 W (ERP)	
946-952 MHz	MO	25K0F3E	20 W (ERP)	

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 (+/-)
27-33.1 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	
45-51.55 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	
84-90.9 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	
147-148 MHz	MO	25K0F3E	20 W (ERP)	
158-159 MHz	MO	25K0F3E	20 W (ERP)	
174-175.2 MHz	MO	25K0F3E	20 W (ERP)	
223-225 MHz	MO	25K0F1D 1M20G1D 25K0F3E	20 W (ERP)	
400-402.7 MHz	MO	25K0F1D 1M20G1D 25K0F3E	20 W (ERP)	

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 (+/-)
437-443 MHz	MO	25K0F3E	20 W (ERP)	
507-513 MHz	MO	25K0F3E	20 W (ERP)	
528-534 MHz	MO	25K0F3E	20 W (ERP)	
726-732 MHz	MO	25K0F3E	20 W (ERP)	
946-952 MHz	MO	25K0F3E	20 W (ERP)	

MOBILE: 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 (+/-)
27-33.1 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	
45-51.55 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	
84-90.9 MHz	MO	16K0F3E 25K0F3E	20 W (ERP)	

Frequency Information

MOBILE: 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 (+/-)
147-148 MHz	MO	25K0F3E	20 W (ERP)	
158-159 MHz	MO	25K0F3E	20 W (ERP)	
174-175.2 MHz	MO	25K0F3E	20 W (ERP)	
223-225 MHz	MO	25K0F1D 1M20G1D 25K0F3E	20 W (ERP)	
400-402.7 MHz	MO	25K0F1D 1M20G1D 25K0F3E	20 W (ERP)	
437-443 MHz	MO	25K0F3E	20 W (ERP)	
507-513 MHz	MO	25K0F3E	20 W (ERP)	
528-534 MHz	MO	25K0F3E	20 W (ERP)	
726-732 MHz	MO	25K0F3E	20 W (ERP)	

Frequency Information

MOBILE: 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 (+/-)
946-952 MHz	MO	25K0F3E	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) Coordinate with the Fixed Microwave Service licensees in accordance with 47 CFR. Part 101.103 (d) prior to operation in 946-952 MHz band.
- (4) Coordinate with the local SBE frequency coordinator prior to operation in 84-90.9 MHz, 147-153.5 MHz, 153-159 MHz, 169-175.2 MHz, 507-513 MHz, 528-534 MHz and 946-952 MHz bands.
- (5) Prior to commencing any operations, the licensee must obtain consent from the following within 190 miles of the contours of the testing area:
 - 700 MHz Lower Band "A" Block licensees (698-704 MHz/728-734 MHz);
 - 700 MHz Lower Band "E" Block licensees (722-728 MHz)
- (6) Leidos, Inc. may not operate in the 148 – 158 MHz, 162 – 174 MHz, and the 225 – 400 MHz bands due to these bands being extremely congested in the requested areas.
- (7) Leidos, Inc. may not operate in the 115 – 141 MHz band due to 25 kHz emissions being unacceptable, no discrete frequencies available, and the 115 – 118 MHz band is for aeronautical radionavigation not aeronautical mobile communications.
- (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.