

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

EXPERIMENTAL

(Nature of Service)

WO9XCJ

(Call Sign)

XT FX MO

(Class of Station)

0171-EX-ST-2019

(File Number)

NAME Viasat, 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:

To demonstrate antenna performance to customer per contract.

Station Locations

- (1) Greenville (HUNT), TX - NL 33-07-00; WL 96-08-00
- (2) Carlsbad (SAN DIEGO), CA - NL 33-07-30; WL 117-16-00
- (3) Duluth (GWINNETT), GA - NL 33-57-44; WL 84-05-49
- (4) Germantown (MONTGOMERY), MD - NL 39-11-44; WL 77-15-27
- (5) Carlsbad (SAN DIEGO), CA - NL 33-07-30; WL 117-16-00
- (6) MOBILE: United States and Possessions

Frequency Information

Greenville (HUNT), TX - NL 33-07-00; WL 96-08-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30324.7-30375.3 MHz	FX	50M6M1D 10M1M1D	48434.6 W (ERP)	1.0E-6 %

This authorization effective March 14, 2019 and
will expire 3:00 A.M. EST September 15, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Carlsbad (SAN DIEGO), CA - NL 33-07-30; WL 117-16-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30069.7-30120.3 MHz	FX	50M6M1D 10M1M1D	48434.6 W (ERP)	1.0E-6 %

Duluth (GWINNETT), GA - NL 33-57-44; WL 84-05-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30324.7-30375.3 MHz	FX	50M6M1D 10M1M1D	48434.6 W (ERP)	1.0E-6 %

Germantown (MONTGOMERY), MD - NL 39-11-44; WL 77-15-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30324.7-30375.3 MHz	FX	50M6M1D 10M1M1D	48434.6 W (ERP)	1.0E-6 %

Carlsbad (SAN DIEGO), CA - NL 33-07-30; WL 117-16-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30324.7-30375.3 MHz	FX	50M6M1D 10M1M1D	48434.6 W (ERP)	1.0E-6 %

Frequency Information

MOBILE: United States and Possessions

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30070.7-30121.3 MHz	MO	50M6M1D	61126 W (ERP)	1.0E-6 %
30324.7-30375.3 MHz	MO	50M6M1D	61126 W (ERP)	1.0E-6 %

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) All Viasat, Inc. testing/operations shall be conducted IAW the configuration and RF parameters (e.g., orbital slot/s, specific frequencies, emission designators, etc.) that Viasat, Inc. coordinated with Air Force (Jimmy Nguyen) and ARSTRAT (Travis Inghram) for this specific STA.
- (4) Emissions from any station, fixed or mobile, to I5-F3 satellite at 180E Longitude restricted to 30.000-30.125 MHz in the LHCP and downlink emissions from I5-F3 satellite at 180E Longitude to any station, fixed or mobile, restricted to 20.200-20.325 MHz RHCP.
- (5) The emissions designators listed in this grant are approved for the stated occupied bandwidth only. Occupied bandwidths that are less than the above emissions are not authorized.
- (6) Viasat, Inc. requires to resubmit the pre-coordination document, that has the correct patterns for the mobile terminal that Viasat Inc. recently provided to Air Force (Jimmy Nguyen), to the FCC for this STA.
- (7) As soon as possible but no later than 3 business days prior to any planned testing/operations, ViaSat, Inc. is required to provide Jimmy Nguyen (Email: jimmy.nguyen@us.af.mil, AFSMO) and Travis J. Inghram (Email: travis.j.ingram.civ@mail.mil, ARSTRAT) with the planned testing/operations date/duration and the stop buzzer POC for the operation/testing. If planned testing/operations conflicts with DoD operations, additional evaluations and/or restrictions will be required.
- (8) Due to high power levels, ViaSat, Inc. is requested to contact Mr. Dan Mertely, dmertely@nrao.edu, to coordinate operations. Also, ViaSat, Inc. should, if at all possible, avoid flight plans within 25 km of NL 34-04-44 WL 107-37-06 and NL 34-18-04 WL 108-07-09.

Special Conditions:

- (9) ViaSat, Inc. should be aware that NTIA adjusted the end date of the application to be 14 September 2019 since the original end date was beyond the 6-month limitation.

- (10) Stop Buzzers: Mike Mester 760-893-1980/ 760-585-5076; Alton Earle 678-924-2653/ 678-409-4356 and Robert Ruggieri 301-266-0924.