

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WL9XBJ

(Call Sign)

0229-EX-ST-2017

(File Number)

NAME The Boeing Company

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 requirement supports the development of the Viasat KuKarray antenna system ground and flight over the air test communicating with Inmarsat-5 F2.

Station Locations

- (1) Greenville (HUNT), TX - NL 33-07-00; WL 96-08-00; MOBILE: Ground test, Greenville, TX, within 5 km, centered around NL 33-07-00; WL 96-08-00
- (2) CONUS, US; MOBILE: 30000 Ft flight level, CONUS, US

Frequency Information

Greenville (HUNT), TX - NL 33-07-00; WL 96-08-00; MOBILE: Ground test, Greenville, TX, within 5 km, centered around NL 33-07-00; WL 96-08-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20.2-21.2 GHz	FX	37M5M1D	575440 W (ERP)	
30-31 GHz	MO	37M5M1D	53703 W (ERP)	

This authorization effective May 22, 2017 and
will expire 3:00 A.M. EST November 23, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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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) POINT-OF-COMMUNICATION: INMARSAT 5F2.
- (4) Authorization of this STA does not constitute U.S. Market access authorization for Inmarsat-5 F2 in the 20.2-21.2 GHz (space-to-Earth) or the 30.0-31.0 GHz (Earth-to-space) frequency bands.
- (5) All testing/demonstration under this authorization will be conducted on NIB to DoD Operations.
- (6) Boeing is required to notify Travis Ingham (Email: travis.j.ingham.civ@mail.mil) and Jimmy Nguyen (Email: jimmy.nguyen@us.af.mil) prior to and at the end of each testing/demonstration.
- (7) Boeing is required to notify Travis Ingham (Email: travis.j.ingham.civ@mail.mil) and Jimmy Nguyen (Email: jimmy.nguyen@us.af.mil) of changes to/new frequencies issued by Inmarsat during the duration of this authorization.
- (8) KuKarray terminal location is fixed station operation and is confined to Greenville, TX.
- (9) KuKarray terminal will not operate with radome during any testing/demonstration.
- (10) The Stop Buzzer POC, Samir Patel (310) 227-7178 or Boeing 24 hour NOC hotline: (855) 556-1001 must be available during any testing or demonstration under this authorization.
- (11) DoD is not responsible for coordinating or obtaining INMARSAT access agreements required for any testing/ demonstration under this authorization
- (12) Operation is subject to prior coordination with Fixed Microwave licensees.
- (13) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station.
- (14) Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future satellite applications.

Special Conditions:

- (15) Boeing's air operations under this STA must avoid the National Radio Quiet Zone to protect radio astronomy operations. This the area bounded by 391500N 0803000W, 391500N 0783000W, 373000N 0803000W and 373000N 0783000W.