

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

EXPERIMENTAL

(Nature of Service)

WS9XHY

(Call Sign)

XT FX

(Class of Station)

0916-EX-ST-2021

(File Number)

NAME Space Exploration Technologies Corp.

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 tests requested are designed to demonstrate and characterize transmittal and receipt of information utilizing the tested user terminal and the previously approved SpaceX infrastructure.

Station Locations

- (1) Redmond (KING), WA - NL 47-41-00; WL 122-01-00
- (2) San Diego (SAN DIEGO), CA - NL 32-59-00; WL 117-05-00
- (3) Westminster (JEFFERSON), CO - NL 39-53-00; WL 105-06-00
- (4) Salt Lake City (SALT LAKE), UT - NL 40-46-00; WL 111-56-00
- (5) Fort Worth (TARRANT), TX - NL 32-46-00; WL 97-28-00

Frequency Information

Redmond (KING), WA - NL 47-41-00; WL 122-01-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	62M5D7W	4.06 W (Output Power)	0.001 %
14-14.5 GHz	FX	62M5D7W	5.1 kW (ERP)	0.001 %

This authorization effective July 10, 2021 and will expire 3:00 A.M. EST January 10, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

San Diego (SAN DIEGO), CA - NL 32-59-00; WL 117-05-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	62M5D7W	4.06 W (Output Power)	0.001 %
14-14.5 GHz	FX	62M5D7W	5.1 kW (ERP)	0.001 %

Westminster (JEFFERSON), CO - NL 39-53-00; WL 105-06-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	62M5D7W	4.06 W (Output Power)	0.001 %
14-14.5 GHz	FX	62M5D7W	5.1 kW (ERP)	0.001 %

Salt Lake City (SALT LAKE), UT - NL 40-46-00; WL 111-56-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	62M5D7W	4.06 W (Output Power)	0.001 %
14-14.5 GHz	FX	62M5D7W	5.1 kW (ERP)	0.001 %

Frequency Information

Fort Worth (TARRANT), TX - NL 32-46-00; WL 97-28-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	62M5D7W	4.06 W (Output Power)	0.001 %
14-14.5 GHz	FX	62M5D7W	5.1 kW (ERP)	0.001 %

Special Conditions:

- (1) Licensee is authorized to conduct tests on one (1) fixed ground-based user terminal (12.2" X 12.2" square antenna) in the 14.0-14.5 GHz frequency band via SpaceX's NGSO satellites.
- (2) POINT OF COMMUNICATION: Space Exploration Technologies Corp. ("SpaceX")'s Ku-band non-geostationary orbit (NGSO) satellites (S2983/S3018).

Special Conditions:

- (3) Prior to commencing any operations in the 14-14.5 GHz frequency band, experimental licensee must notify licensees of earth stations. The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test. Please notify the following licensees:

For testing at Redmond, KING, WA- NL 47-41-00; WL 122-01-00

VSAT Call Sign: E000349
Frequency bands: 14-14.5 GHz
Licensee: The Boeing Company
ATTN: MR. RONALD E. CENTER
Phone: 866-248-1493 Fax: 206-662-0701 E-Mail: ronald.e.center@boeing.com
Site Contact: ALLEN S. LINDSAY 206-544-6053

For testing at San Diego, SAN DIEGO, CA- NL 32-59-00; WL 117-05-00

Call Sign: E100010
Frequency bands: 14-14.5 GHz
Licensee: UCSD Scripps Institution of Oceanography
ATTN: Mr. Jonathan Berger
Phone: 858-534-2889 Fax: E-Mail: jberger@ucsd.edu
Site Contact: Steve Foley 858-534-5090

For testing at Westminster, JEFFERSON, CO- NL 39-53-00; WL 105-06-00

Call Sign: E070244
Frequency bands: 14-14.5 GHz
Licensee: Tri State Generation & Transmission Assoc., Inc.
ATTN: Travis Phifer
Phone: 303-452-6111 Fax: 303-254-3566 E-Mail: TSGTTelecom@tristategt.org
Site Contact: LEOPOLDO BARRIOS 303-254-3432

Call Sign: E950149
Frequency bands: 14-14.5 GHz
Licensee: RigNet SatCom, Inc.
ATTN: Mr. Raul Magallanes
Phone: 281-674-0150 Fax: 281-674-0101 E-Mail: raul.magallanes@rig.net
Site Contact: RANDY AKROYD 303-397-7531

Call Sign: E900015
Frequency bands: 14-14.5 GHz
Licensee: Vyvx, LLC
ATTN: Mr. Cary McDaniel
Phone: 404-325-2272 Fax: 404-929-1365 E-Mail: cary.mcdaniel@level3.com

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For testing at Fort Worth, TARRANT, TX- NL 32-46-00; WL 97-28-00

Call Sign: E020284

Frequency bands: 14-14.5 GHz

Licensee: Lockheed Martin Corporation

ATTN: Ms Jennifer Warren

Phone: 703-413-5970 Fax: 703-413-5908 E-Mail: Jennifer.Warren@lmco.com

Site Contact: MARCUS HAPONSTALL 817-777-3915