

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

EXPERIMENTAL

(Nature of Service)

W12XUB

(Call Sign)

XT FX MO

(Class of Station)

0266-EX-ST-2019

(File Number)

NAME Space Explorations Technologies

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:
Spacecraft communication

Station Locations

- (1) Cape Canaveral (BREVARD), FL - NL 28-36-30; WL 80-36-15
- (2) Cape Canaveral (BREVARD), FL - NL 28-36-30; WL 80-36-17
- (3) Cape Canaveral (BREVARD), FL - NL 28-37-27; WL 80-41-12
- (4) Vandenberg AFB (SANTA BARBARA), CA - NL 34-43-09; WL 120-31-52
- (5) Cape Canaveral (BREVARD), FL - NL 28-32-37; WL 80-35-24
- (6) Kodiak (Kodiak Island), AK - NL 57-27-18; WL 152-22-25
- (7) Cape Canaveral (BREVARD), FL - NL 28-37-27; WL 80-41-12
- (8) Cape Canaveral, AFS (BREVARD), FL - NL 28-24-47; WL 80-37-13; MOBILE: Port Canaveral - Barge, within 10 km
- (9) Cape Canaveral, AFS (BREVARD), FL - NL 30-41-20; WL 76-45-00; MOBILE: Port Canaveral - Barge, within 10 km
- (10) Cape Canaveral, AFS (BREVARD), FL - NL 30-41-20; WL 76-45-00; MOBILE: Port Canaveral - Ship, within 10 km

This authorization effective March 02, 2019 and
will expire 3:00 A.M. EST September 02, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Cape Canaveral (BREVARD), FL - NL 28-36-30; WL 80-36-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	FX	4M31G1D	3 W (ERP)	0.00003 %

Cape Canaveral (BREVARD), FL - NL 28-36-30; WL 80-36-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	FX	4M31G1D	3 W (ERP)	0.00003 %

Cape Canaveral (BREVARD), FL - NL 28-37-27; WL 80-41-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	FX	4M31G1D	5400 W (ERP)	0.00003 %

Vandenberg AFB (SANTA BARBARA), CA - NL 34-43-09; WL 120-31-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	FX	4M31G1D	3 W (ERP)	0.00003 %

Frequency Information

Cape Canaveral (BREVARD), FL - NL 28-32-37; WL 80-35-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	FX	4M31G1D	5400 W (ERP)	0.00003 %

Kodiak (Kodiak Island), AK - NL 57-27-18; WL 152-22-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	FX	4M31G1D	5400 W (ERP)	0.00003 %

Cape Canaveral (BREVARD), FL - NL 28-37-27; WL 80-41-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	FX	4M31G1D	5400 W (ERP)	0.00003 %

Cape Canaveral, AFS (BREVARD), FL - NL 28-24-47; WL 80-37-13; MOBILE: Port Canaveral - Barge, within 10 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	5400 W (ERP)	3.0E-6 %

Frequency Information

Cape Canaveral, AFS (BREVARD), FL - NL 30-41-20; WL 76-45-00; MOBILE: Port Canaveral - Barge, within 10 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	5400 W (ERP)	3.0E-6 %

Cape Canaveral, AFS (BREVARD), FL - NL 30-41-20; WL 76-45-00; MOBILE: Port Canaveral - Ship, within 10 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	3.0E-6 %

Special Conditions:

- (1) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) All uplink operations are contingent upon a non-recoverable loss of the TDRS forward link signal to the Dragon 2 spacecraft.
- (4) All operations are limited to launch/ascent and departure/re-entry only. Operations shall not occur while the Dragon 2 spacecraft is docked to the International Space Station (ISS).
- (5) Immediate notification shall be provided to the NASA GSFC Spectrum Manager, Scott Galbraith at 301.286.5089 or vincent.s.galbraith@nasa.gov, and the NASA JSC Spectrum Manager, Cathy Sham at 281.483.0124 or Catherine.c.sham@nasa.gov, in the event that a contingency event requires activation of the uplink stations.
- (6) Prior to transmitting at Cape Canaveral AFS, FL, SpaceX shall coordinate and schedule their operations with Range Scheduling, COMM: (321)-853-5941, email: 1ropschd@us.af.mil