

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

EXPERIMENTAL

(Nature of Service)

WY9XJZ

(Call Sign)

XT FX MO

(Class of Station)

1270-EX-ST-2026

(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:

Dragon 2 capsule communications for upcoming SpaceX missions.

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 80-36-13
- (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 80-35-25
- (6) Kodiak (Kodiak Island), AK - NL 57-27-18; WL 152-22-25
- (7) Inarajan, GU - NL 13-16-56; EL 144-45-19
- (8) Boca Chica (CAMERON), TX - NL 25-59-27; WL 97-10-55
- (9) MOBILE: Space Dragon S-Band Directional Array LC39A, Cape Canaveral, FL, centered around NL 28-36-30; WL 80-36-15
- (10) MOBILE: Space: Dragon S-Band Directional Array - LC-40, Cape Canaveral, FL, centered around NL 28-33-43; WL 80-34-38
- (11) MOBILE: Recovery Vessel, Dry Tortuga, FL/Gulf of America (US waters), within 75 km, centered around NL 25-08-06; WL 83-00-00
- (12) MOBILE: Recovery Vessel, Pensacola, FL/Gulf of America (US Waters), within 75 km, centered around NL 29-48-00; WL 87-30-00
- (13) MOBILE: Recovery Vessel, Pensacola Dock, FL/Gulf of America (US Waters), within 10 km, centered around NL 30-20-45; WL 87-16-01
- (14) MOBILE: Recovery Vessel Panama City, FL/ Gulf of America (US Waters), within 75 km, centered around NL 29-42-58; WL 86-10-59

This authorization effective July 22, 2026 and
will expire 3:00 A.M. EST January 23, 2027

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (15) MOBILE: Recovery Vessel, Tallahassee, FL/Gulf of America (US Waters), within 75 km, centered around NL 29-16-59; WL 84-12-00
- (16) MOBILE: Recovery Vessel, Tampa, FL/Gulf of America (US Waters), within 75 km, centered around NL 28-06-00; WL 83-54-00
- (17) MOBILE: Recovery Vessel, Port Tampa Dock, FL/Gulf of America (US Waters), within 10 km, centered around NL 27-55-46; WL 82-26-00
- (18) MOBILE: Recovery Vessel, Port Canaveral, FL/Atlantic (US Waters), within 75 km, centered around NL 28-51-00; WL 80-13-48
- (19) MOBILE: Recovery Vessel, Port Canaveral Dock, FL/Atlantic (US Waters), within 10 km, centered around NL 28-24-47; WL 80-37-13
- (20) MOBILE: Recovery Vessel, Jacksonville, FL/Atlantic (US Waters), within 75 km, centered around NL 30-55-00; WL 80-15-00
- (21) MOBILE: Recovery Vessel, Daytona, FL/Atlantic (US Waters), within 75 km, centered around NL 29-48-00; WL 80-36-00
- (22) MOBILE: Recovery Vessel, Port of Long Beach, CA/Pacific (US Waters), within 10 km, centered around NL 33-44-38; WL 118-13-30
- (23) MOBILE: Recovery Vessel, Los Angeles, CA/Pacific (US Waters), within 75 km, centered around NL 33-40-43; WL 119-09-09
- (24) MOBILE: Recovery Vessel, Oceanside, CA/Pacific (US Waters), within 75 km, centered around NL 33-00-43; WL 117-44-53
- (25) MOBILE: Recovery Vessel, San Diego, CA/Pacific (US Waters), within 75 km, centered around NL 32-36-10; WL 117-42-16

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 80-36-13

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 28-37-27; WL 80-41-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	FX	4M31G1D	609 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	609 W (ERP)	0.00003 %

Cape Canaveral (BREVARD), FL - NL 28-32-37; WL 80-35-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	FX	4M31G1D	609 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	609 W (ERP)	0.00003 %

Frequency Information

Inarajan, GU - NL 13-16-56; EL 144-45-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	FX	4M31G1D	609 W (ERP)	0.00003 %

Boca Chica (CAMERON), TX - NL 25-59-27; WL 97-10-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	FX	4M31G1D	609 W (ERP)	0.00003 %

MOBILE: Space_Dragon S-Band Directional Array LC39A, Cape Canaveral, FL, centered around NL 28-36-30; WL 80-36-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2203.2 MHz	MO	4M15G1D 4M20G1D	39 W (ERP)	0.001 %
2216 MHz	MO	4M60G1D 2M69G1D	77 W (ERP)	0.001 %
2287.5 MHz	MO	4M80G1D	77 W (ERP)	0.001 %

MOBILE: Space: Dragon S-Band Directional Array - LC-40, Cape Canaveral, FL, centered around NL 28-33-43; WL 80-34-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2203.2 MHz	MO	4M15G1D	39 W (ERP)	0.001 %

Frequency Information

MOBILE: Space: Dragon S-Band Directional Array - LC-40, Cape Canaveral, FL, centered around NL 28-33-43; WL 80-34-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2203.2 MHz	MO	4M20G1D	39 W (ERP)	0.001 %
2216 MHz	MO	4M60G1D 2M69G1D	77 W (ERP)	0.001 %
2287.5 MHz	MO	4M80G1D	77 W (ERP)	0.001 %

MOBILE: Recovery Vessel, Dry Tortuga, FL/Gulf of America (US waters), within 75 km, centered around NL 25-08-06; WL 83-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

MOBILE: Recovery Vessel, Pensacola, FL/Gulf of America (US Waters), within 75 km, centered around NL 29-48-00; WL 87-30-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

Frequency Information

MOBILE: Recovery Vessel, Pensacola Dock, FL/Gulf of America (US Waters), within 10 km, centered around NL 30-20-45; WL 87-16-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

MOBILE: Recovery Vessel Panama City, FL/ Gulf of America (US Waters), within 75 km, centered around NL 29-42-58; WL 86-10-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

MOBILE: Recovery Vessel, Tallahassee, FL/Gulf of America (US Waters), within 75 km, centered around NL 29-16-59; WL 84-12-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

Frequency Information

MOBILE: Recovery Vessel, Tampa, FL/Gulf of America (US Waters), within 75 km, centered around NL 28-06-00; WL 83-54-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

MOBILE: Recovery Vessel, Port Tampa Dock, FL/Gulf of America (US Waters), within 10 km, centered around NL 27-55-46; WL 82-26-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

MOBILE: Recovery Vessel, Port Canaveral, FL/Atlantic (US Waters), within 75 km, centered around NL 28-51-00; WL 80-13-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

Frequency Information

MOBILE: Recovery Vessel, Port Canaveral Dock, FL/Atlantic (US Waters), within 10 km, centered around NL 28-24-47; WL 80-37-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

MOBILE: Recovery Vessel, Jacksonville, FL/Atlantic (US Waters), within 75 km, centered around NL 30-55-00; WL 80-15-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

MOBILE: Recovery Vessel, Daytona, FL/Atlantic (US Waters), within 75 km, centered around NL 29-48-00; WL 80-36-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

Frequency Information

MOBILE: Recovery Vessel, Port of Long Beach, CA/Pacific (US Waters), within 10 km, centered around NL 33-44-38; WL 118-13-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

MOBILE: Recovery Vessel, Los Angeles, CA/Pacific (US Waters), within 75 km, centered around NL 33-40-43; WL 119-09-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

MOBILE: Recovery Vessel, Oceanside, CA/Pacific (US Waters), within 75 km, centered around NL 33-00-43; WL 117-44-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

Frequency Information

MOBILE: Recovery Vessel, San Diego, CA/Pacific (US Waters), within 75 km, centered around NL 32-36-10; WL 117-42-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	609 W (ERP)	0.00003 %
2106.40625 MHz	MO	4M31G1D	3 W (ERP)	0.00003 %

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) Space Explorations Technologies must coordinate with the local Society of Broadcast Engineers Frequency Coordinator in each proposed area prior to accessing to 2106.40625 MHz.
- (3) The STOP BUZZER POC information, for launch operations shall be provided to NTIA (ravery@ntia.doc.gov). This phone shall be manned 24/7.
- (4) All operations shall be limited to launch vehicle communication for SpaceX Dragon missions to the International Space Station and recovery operations.
- (5) As soon as possible, but no later than sixty (60) business days prior to the planned launch, SpaceX is required to provide, as a minimum, launch date/time/window and planned first- and second-stage trajectory, transmission frequencies with associated duration/cut-off time to David Stringham (david.stringham.2@spaceforce.mil, USSF SSC 2 ROPS/DOPS), Dave Everett (david.everett.16@spaceforce.mil, USSF SSC 2 ROPS/DOPS), James Davis (james.davis.144.ctr@spaceforce.mil, USSF WLTRS/RGNext), Sigfredo antiago (sigfre.santiagohernandez.1@spaceforce.mil, USSF SSC SLD 45), DoD Eastern AFC (45sw.dodeafc@us.af.mil), SLD 45 SMO (45sw.erfmo@us.af.mil), Shaobei Xu (shaobei.xu.1@us.af.mil, AFSMO), Felipe Arroyo (felipe.arroyo-1@nasa.gov, NASA WFF), NASA GSFC Spectrum Office (NASA-DL-GSFC-Spectrum-Management@mail.nasa.gov), Michael Ferens (michael.t.ferens@nasa.gov, NASA LaRC), NOAA Satellite Operations Control Center (Matt.G.Sullivan@noaa.gov), and NASA JSC Spectrum Office (JSC-DLSpectrum-Management@mail.nasa.gov). SpaceX shall also provide any additional technical or operational information that may be requested by frequency coordination contacts to facilitate successful coordination. In the event of last-minute changes to any data provided for the purpose of coordination; 48-hour notice is required.
- (6) Prior to the planned operations at VSBF, CA, SpaceX shall coordinate and schedule their operations with 2 ROPS/DOS Range Scheduling (805) 606-8825, 2 ROPS/DOS Section (2ROPS.DOS@us.af.mil) and provide a copy of FCC license, any changes to the launch mission trajectory/telemetry data and Stop Buzzer POC to SLD 30 Spectrum Management Office (805) 606-6695, email: 30scs.scorf@us.af.mil

Special Conditions:

- (7) Prior to the planned operating at CCSFS and other recovery locations in FL, SpaceX shall coordinate and schedule their operations with Range Scheduling, (321)-853-5941, email: 1ropschd@us.af.mil and provide a copy of FCC license, any changes to the launch mission trajectory/telemetry data and Stop Buzzer POC to the 45th Space Wing Spectrum Management Office, (321)-853-8408, email: 45sw.erfmo@us.af.mil with Cc'ing DoD EAFC (321)-853-8426, email: 45sw.dodeafc@us.af.mil
- (8) The conditions provided in the approved grant for 1805-EX-ST-2025 as applied now to 1270-EX-ST-2026 in conjunction have the following updates to the special conditions:

(3) SpaceX shall provide the initial disclosure for potential crew or cargo missions to occur under this authorization to the FCC, NTIA, and federal agencies as soon as practicable, but no later than 60 days prior to launch. SpaceX shall successfully complete per-mission coordination with the federal agencies prior to initiating each crew or cargo mission. This STA will expire on 22 January 2027.

(22) No later than 60 days prior to launch (or as soon as possible if within the 60-day window), NSWCDD requires concepts of operations, frequencies, modulation types, data rates, transmitters' powers (EIRP), and trajectories. Blackout zones (BOZs) MAY be imposed, including but not limited to any of the following:

- (1) 1500 nautical mile radius centered at 22.00N 160.00W;
- (2) 1500 nautical mile radius centered at 33.25N 119.57W;
- (3) 1500 nautical mile radius centered at 8.72N 167.73E;
- (4) 1500 nautical mile radius centered at 57.46N 152.38W;
- (5) 1500 nautical mile radius centered at 32.37N 106.47W;
- (6) 1500 nautical mile radius centered at 57.34N 7.35W;
- (7) Any radius and center coordinate dependent on DoD operations.

The final launch schedule for each launch will ultimately determine which BOZs will be implemented.

The imposed BOZs SHALL be implemented by the licensee for the dates, times, and frequencies indicated in accordance with the conditions of the requester's license.

As a user of these frequencies, the requester is responsible for deconflicting Launches, on-orbit operations, and entry/splashdown operations inside of any applicable BOZ windows, as these frequencies are granted on a not-to-interfere basis (NIB). In addition, the requester MUST also comply with any and all other restrictions that may be levied by NSWCDD. When missions involve NASA and/or transit to/from the ISS, BOZs and other restrictions will be coordinated through Cathy Sham (catherine.c.sham@nasa.gov, NASA JSC SMO).

The primary contacts for frequency coordination:

Group email inbox: nswcdd.b51.ftma.spaceops@us.navy.mil

Mr. James Moneyhon, (540) 653-3477, james.m.moneyhon.civ@us.navy.mil

Mr. Matthew Dempsey, (540) 718-9212, matthew.c.dempsey3.civ@us.navy.mil

Mr. Kenton Young, (540) 613-3300, kenton.d.young2.civ@us.navy.mil

Mr. Michael Dewell, (540) 653-9512, michael.t.dewell.civ@us.navy.mil