

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

EXPERIMENTAL

(Nature of Service)

WG9XHP

(Call Sign)

XT MO

(Class of Station)

1312-EX-ST-2015

(File Number)

NAME Space Exploration Technologies Corp. (SpaceX)

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:

Launch vehicle communications, for F9-25 commercial GTO mission, from Cape Canaveral.

Station Locations

- (1) MOBILE: Complex 40, Cape Canaveral AFS: Launch vehicle 1st stage, sub-orbital
- (2) MOBILE: Launch vehicle 2nd stage, orbital

Frequency Information

MOBILE: Complex 40, Cape Canaveral AFS: Launch vehicle 1st stage, sub-orbital

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2221.5 MHz	MO	3M27F1D	33.9 W (ERP)	
2273.5 MHz	MO	3M27F1D	33.9 W (ERP)	

This authorization effective March 01, 2016 and will expire 3:00 A.M. EST September 01, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Launch vehicle 2nd stage, orbital

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2213.5 MHz	MO	3M27F1D 1M00F1D	32.4 W (ERP)	
2251.5 MHz	MO	3M27F1D 2M00F1D	33.9 W (ERP)	
5765 MHz	MO	2M00LXN	193 W (ERP)	

Special Conditions:

- (1) This STA is limited to the single Falcon 9 launch scheduled for no earlier than March 1, 2016, to support the launch vehicle communications for F9-25 commercial GTO mission. This STA will expire as soon as the launch has been completed or by September 1, 2016, whichever occurs first. Any future launches will need to submit applications to the FCC to be re-coordinated with NTIA.
- (2) SpaceX shall be aware that future non-federal launches will be considered on a case-by-case basis, especially for requests in the band 2200-2290 MHz, and SpaceX shall have no expectations that future launches will be approved.
- (3) As soon as possible, but no later than 14 days prior to the planned launch, SpaceX is required to provide Rich Rood (richard.l.rood@nasa.gov, 661-276-2138, NASA Armstrong SMO), Farzin Manshadi (farzin.manshadi@jpl.nasa.gov, 818-354-0068, NASA JPL/DSN SMO), Scott Galbraith (vincent.s.galbraith@nasa.gov, 301-286-5089, NASA GSFC SMO), Cathy Sham (catherine.c.sham@nasa.gov, 281-483-0124, NASA JSC SMO), with a minimum of the following information: planned launch date/time/window and RF transmission cessation timeline for both 1st and 2nd stages of the launch vehicle. In the event of last minute changes, 48 hour notice is required.
- (4) Prior to transmitting at Cape Canaveral AFS, Florida, SpaceX shall coordinate and schedule their operations through the Eastern Range Scheduling Office, Mr. Steve Parish, COMM:321-853-2012, Stephen.Parish.1@us.af.mil, Steven Schindler (steven.f.schindler@nasa.gov, 321-867-2520, NASA KSC SMO), and Scott Galbraith (vincent.s.galbraith@nasa.gov, 301-286-5089, NASA GSFC SMO).
- (5) The STOP BUZZER POC information, for launch operations shall be provided to Brandon Mitchell at bmitchell@ntia.doc.gov. This phone shall be manned 24/7.

Special Conditions:

- (6) SpaceX shall keep a log of all transmissions in the band 2200-2290 MHz that shall be provided to NTIA after the mission. This log should include, at a minimum, the date, time, frequency, EIRP density, and pointing direction of the antennae. The log must be provided to the following no later than 30 days after completion of the mission:
Brandon Mitchell at bmitchell@ntia.doc.gov
Edward Drocella at edrocella@ntia.doc.gov
- (7) Space X shall be aware that due to potential harmful interference to Naval activities, SpaceX F9-25 RF operations plan shall be submitted, at least 30-days prior to planned launch date, to the Naval Surface Warfare Center, Dahlgren Division (NSWCDD), Mr. James Moneyhon (540)653-3477, or james.moneyhon@navy.mil, for assessment, identification of potential conflicts with Navy and Marine Corps operations, and requirements that may be required to mitigate harmful interference. SpaceX must also comply with any and all restrictions, including blackout zones, that may be levied by the NSWCDD.
- (8) All SpaceX operations granted on an experimental basis shall be on an unprotected, non-interference basis to authorized federal stations.
- (9) As soon as possible, but no later than seven days prior to the planned launch, SpaceX is required to provide Jimmy Nguyen (Email: jimmy.nguyen@us.af.mil, Phone: 301-225- 3729), Air Force Spectrum Management Office (AFSMO) with the planned launch date/time/window and any changes in the launch trajectory data. In the event of last minute changes, a 48 hour notice is requested.
- (10) Prior to transmitting at Cape Canaveral AFS, Florida, Space X shall coordinate and schedule their operations with Range Scheduling (Phone: 321-853-5941, Email: 1ropschd@us.af.mil).