

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

EXPERIMENTAL

(Nature of Service)

WF9XDK

(Call Sign)

XD MO

(Class of Station)

0334-EX-ST-2012

(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:

No change from previous approval. The purpose of the operation (the Demo C2 mission) is to demonstrate the capability to launch a capsule that can dock with the International Space Station.

Station Locations

- (1) MOBILE: Launch Complex 40, Cape Canaveral Air Force Station, and down-range during flight, within 250 km, centered around NL 28-34-00; WL 80-34-00
- (2) MOBILE: Launch Complex 40, Cape Canaveral AFS, FL, and down-range, within 250 km, centered around NL 28-34-00; WL 28-34-00

Frequency Information

MOBILE: Launch Complex 40, Cape Canaveral Air Force Station, and down-range during flight, within 250 km, centered around NL 28-34-00; WL 80-34-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2221.5 MHz	MO	3M66F1D 1M76G1D	20 W (ERP)	
2273.5 MHz	MO	9M80F3F	10 W (ERP)	

This authorization effective May 04, 2012 and will expire 3:00 A.M. EST November 19, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Launch Complex 40, Cape Canaveral AFS, FL, and down-range, within 250 km, centered around NL 28-34-00; WL 28-34-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2213.5 MHz	MO	3M35F1D 1M61G1D	20 W (ERP)	
2251.5 MHz	MO	9M80F3F	10 W (ERP)	
5765 MHz	MO	12M0LXN	8 W (ERP)	

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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) All SpaceX operations granted on an experimental basis shall be on an unprotected, non-interference basis to authorized federal stations.
- (4) Use of this STA is for a single demonstration of a low-cost, commercial capability to transport cargo to the International Space Station (ISS) and return it safely to the Earth mission only. This STA is limited to the single Falcon 9 launch scheduled, as of 1 May 2012, for 7 May 2012. This STA will expire as soon as the launch has been completed. Any future launches will need to submit applications to the FCC to be re-coordinated with NTIA.
- (5) 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.
- (6) This STA will expire as soon as the launch has been completed. Any future launches will need to submit applications to the FCC to be re-coordinated with NTIA.

Special Conditions:

- (7) Prior to transmitting, SpaceX shall coordinate and schedule their operations through:
 - a) at KSC, the KSC spectrum manager (Steve Schindler, steven.f.schindler@nasa.gov) to receive a KSC local RFA that will detail specific local operational requirements; and
 - b) at KSC and Cape Canaveral Air Force Station (CCAFS), the Eastern Range Scheduling office.
- (8) Prior to FCC granting this STA, SpaceX shall provide STOP BUZZER POC information, both for ground testing and for launch/on-orbit/reentry operations, to skotler@ntia.doc.gov, edavison@ntia.doc.gov, Jimmy.Nguyen@pentagon.af.mil (Comm 301-225-3729), steven.f.schindler@nasa.gov, vincent.s.galbraith@nasa.gov, mbielucki@mail.wsc.nasa.gov, and catherine.c.sham@nasa.gov.
- (9) All transmissions in the band 2200-2290 MHz will comply with national and international power flux-density limits.
- (10) SpaceX shall keep a log of all transmissions in the band 2200-2290 MHz that would be provided to NTIA after the mission. This log should include at least date, time, frequency, EIRP density, and pointing direction of the antenna. The log should be provided to the following people at NTIA: skotler@ntia.doc.gov and edavison@ntia.doc.gov.