

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

EXPERIMENTAL

(Nature of Service)

WI9XTI

(Call Sign)

XT    FX MO

(Class of Station)

1161-EX-ST-2016

(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:**

Experimental first-stage recovery operation. Transmitting stations located on Port San Pedro, Vandenberg AFB and offshore.

Station Locations

- (1) Vandenberg AFB, CA - NL 34-37-58; WL 120-36-55
- (2) MOBILE: BOAT, within 10 nautical miles, within 18.52 km, centered around NL 28-08-52; WL 73-49-48
- (3) MOBILE: Autonomous Drone Ship, within 10 nautical miles, within 18.52 km, centered around NL 31-17-45; WL 120-30-46
- (4) Vandenberg AFB, CA - NL 34-43-09; WL 120-31-52
- (5) MOBILE: Autonomous Drone Ship, port testing, within 10 km, centered around NL 33-43-17; WL 118-16-29
- (6) MOBILE: BOAT, port testing, within 18.52 km, centered around NL 28-08-52; WL 73-49-48

**Frequency Information**

Vandenberg AFB, CA - NL 34-37-58; WL 120-36-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2090 MHz	FX	800KG1D	6 W (ERP)	0.00025 %

This authorization effective September 01, 2016 and will expire 3:00 A.M. EST March 01, 2017

**FEDERAL  
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## Frequency Information

MOBILE: BOAT, within 10 nautical miles, within 18.52 km, centered around NL 28-08-52; WL 73-49-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2090 MHz	MO	800KG1D	6 W (ERP)	0.00025 %

MOBILE: Autonomous Drone Ship, within 10 nautical miles, within 18.52 km, centered around NL 31-17-45; WL 120-30-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2090 MHz	MO	800KG1D	1 W (ERP)	0.00025 %

Vandenberg AFB, CA - NL 34-43-09; WL 120-31-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2090 MHz	FX	810KG1D	6.1 kW (ERP)	0.00025 %

MOBILE: Autonomous Drone Ship, port testing, within 10 km, centered around NL 33-43-17; WL 118-16-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2090 MHz	MO	800KG1D	1 W (ERP)	0.00025 %

## Frequency Information

MOBILE: BOAT, port testing, within 18.52 km, centered around NL 28-08-52; WL 73-49-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2090 MHz	MO	800KG1D	6 W (ERP)	0.00025 %

## Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at [http://freq.sbe.org/pdf\\_files/coordinators.pdf](http://freq.sbe.org/pdf_files/coordinators.pdf) to find the appropriate coordinator.
- (2) All SpaceX operations granted on an experimental basis shall be on an unprotected, noninterference basis to authorized AF stations.
- (3) This STA is limited to the experimental first-stage recovery operation, following a Falcon 9 launch (F9-30) from Vandenberg AFB.
- (4) Prior to operating at Vandenberg Air Force Base, CA in California, SpaceX shall ensure proper UDS documentation is established to support operations and send a letter to 2 ROPS/DOS officially appointing schedulers to interface with the Western Range Scheduling Office. After this documentation is in place, SpaceX schedulers can coordinate and schedule operations by contacting the Western Range Scheduling Office, 2 ROPS/DOS, at 2ROPS.DOS@us.af.mil or (805) 606-8825