

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

EXPERIMENTAL

(Nature of Service)

WJ9XHP

(Call Sign)

XT FX

(Class of Station)

0448-EX-ST-2017

(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:

Pre-launch checkout of TTC links for commercial payload mission, including operation of the fairing re-rad system, prior to flight.

Station Locations

- (1) Kennedy Space Center (BREVARD), FL - NL 28-36-29; WL 80-36-14
- (2) Cape Canaveral AFS (BREVARD), FL - NL 28-32-37; WL 80-35-24
- (3) Kennedy Space Center (BREVARD), FL - NL 28-36-29; WL 80-36-14

Frequency Information

Kennedy Space Center (BREVARD), FL - NL 28-36-29; WL 80-36-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
17.303 GHz	FX	1M20F2D	402.7 kW (ERP)	
18.0974 GHz	FX	1M20F2D	402.7 kW (ERP)	

This authorization effective May 09, 2017 and will expire 3:00 A.M. EST October 31, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
11.7055 GHz	FX	800KG2D	600 uW (ERP)	
12.4965 GHz	FX	800KG2D	600 uW (ERP)	
17.3026 GHz	FX	1M20F2D	600 uW (ERP)	
18.0974 GHz	FX	1M20F2D	600 uW (ERP)	

Kennedy Space Center (BREVARD), FL - NL 28-36-29; WL 80-36-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
11.7055 GHz	FX	800KG2D	600 uW (ERP)	
12.4965 GHz	FX	800KG2D	600 uW (ERP)	

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 to find the appropriate coordinator.
- (2) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (3) Prior the start of transmitting at Complex 39a, Kennedy Space Center, FL, SpaceX shall coordinate and schedule their operations with Range Scheduling: COMM: (321)-853-5941, email: 1ropschd@us.af.mil
- (4) This experimental STA was obtained based on the written consent of EchoStar, DISH Network and DirecTV/AT&T, FCC licensees of the 12.2 - 12.7 GHz band.

Special Conditions:

- (5) Operations in 12.4965 GHz, the test will be performed in accordance with the transmission parameters detailed in the file number 0448-EX-ST-2017 application including adherence to the transmit ERP power levels.
- (6) The experiment test duration will be for a period of 6 months only starting from May 9, 2017.
- (7) In the unlikely event that interference is experienced by a Direct Broadcast Satellite customer(s) receiving transmissions around the 12.4965 GHz center frequency from EchoStar and/or DISH Network satellites, Space Exploration Technologies Corp. (SpaceX), will immediately cease all transmission tests upon notification by EchoStar and/or DISH Network. SpaceX may commence testing once a resolution is found for the interference, which shall be agreed to by EchoStar and/or DISH Network and SpaceX.
- (8) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (9) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.