

## Douglas Young

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**From:** Douglas Young  
**Sent:** Tuesday, February 14, 2017 1:48 PM  
**To:** John Kennedy; David Duarte  
**Cc:** OET-SCB; ELB-Coordination-Info  
**Subject:** STA Coordination, Space Exploration Technologies Corp., File #0194-EX-ST-2017  
**Attachments:** 0194-EX-ST-2017.RTF

<b>Tracking:</b>	<b>Recipient</b>	<b>Read</b>
	John Kennedy	
	David Duarte	
	OET-SCB	
	ELB-Coordination-Info	Read: 2/14/2017 1:49 PM

Attached is a coordination for the subject experimental STA. The requested start date is **02/28/2017**. This request is for capsule communications for SpaceX CRS-11 mission, an ISS commercial re-supply mission for NASA customer between **02/28/2017** and **08/28/2017**.

Please CC [ELB-Coordination-Info@fcc.gov](mailto:ELB-Coordination-Info@fcc.gov) with all responses.

Doug

## FCC FREQUENCY COORDINATION NOTICE

### Experimental Licensing Branch Office of Engineering and Technology

The following application is attached for your review:

**Applicant:** Space Exploration Technologies Corp.

**File Number:** 0194-EX-ST-2017

**Start Date:** 2/28/2017

**End Date:** 8/28/2017

#### **Why STA Is Necessary:**

This application uses information from previous grant 1395-EX-ST-2016. This STA is necessary for Dragon capsule telemetry, tracking, and command, for the upcoming SpaceX CRS-11 mission to the International Space Station. The launch site for the capsule is Complex 39a, Kennedy Space Center. The launch and re-entry licensing authority is the FAA. Launch is also to be coordinated with Eastern Range. On-orbit rendezvous with the ISS is to be coordinated with NASA. The requested STA should remain valid for 6 months or until mission is concluded, whichever occurs first.

#### **Purpose of Operation:**

STA is required for capsule communications for SpaceX CRS-11 mission, an ISS commercial re-supply mission for the NASA.

**Contact:** Christopher Wilkins

**Phone:** 2026492729

**Email:** cwilkins@spacex.com

**Nature of Service:** EXPERIMENTAL

**Class of Station:** XT FX MO

**Call Sign:** WF9XGI

#### **Station Location (1)**

Kennedy Space Center, BREVARD, FL- NL 28-36-29; WL 80-36-14; MOBILE: Space: Dragon S-Band Directional Array, centered around NL 28-36-29; WL 80-36-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2287.5 MHz	MO	4M80G1D	300W (ERP)	0.00003000

#### **Station Location (2)**

Kennedy Space Center, BREVARD, FL- NL 28-36-29; WL 80-36-14; MOBILE: Space: Dragon S-Band Omni, centered around NL 28-36-29; WL 80-36-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2216 MHz	MO	1M76F1D	40W (ERP)	0.00000020
2216 MHz	MO	406KF1D	40W (ERP)	0.00000020
2287.5 MHz	MO	4M80G1D	40W (ERP)	0.00003000

#### **Station Location (3)**

Kennedy Space Center, BREVARD, FL- NL 28-36-29; WL 80-36-14; MOBILE: Space: Dragon CUCU Patch Hemispherical, centered around NL 28-36-29; WL 80-36-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
400.5 MHz	MO	338KG1D	2.5W (ERP)	

**Station Location (4)**

Kennedy Space Center, FL- NL 28-37-24; WL 80-41-11

<b>Frequency</b>	<b>Station Class</b>	<b>Emission Designator</b>	<b>Authorized Power</b>	<b>Frequency Tolerance (+/-)</b>
2040.5675 MHz	FX	5K60G1D	175000W (ERP)	

**Station Location (5)**

Kennedy Space Center, FL- NL 28-32-37; WL 80-35-24

<b>Frequency</b>	<b>Station Class</b>	<b>Emission Designator</b>	<b>Authorized Power</b>	<b>Frequency Tolerance (+/-)</b>
2040.5675 MHz	FX	5K60G1D	15300W (ERP)	

**Station Location (6)**

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

<b>Frequency</b>	<b>Station Class</b>	<b>Emission Designator</b>	<b>Authorized Power</b>	<b>Frequency Tolerance (+/-)</b>
2040.5675 MHz	FX	5K60G1D	15300W (ERP)	