

Douglas Young

From: Douglas Young
Sent: Tuesday, March 1, 2022 6:28 PM
To: David Duarte
Cc: OET-SCB; ELB-Coordination-Info
Subject: FW: STA Coordination, Space Exploration Technologies Corp. (SpaceX), File #0325-EX-ST-2022
Attachments: 0325-EX-ST-2022.RTF

Tracking:	Recipient	Read
	David Duarte	
	OET-SCB	
	ELB-Coordination-Info	Read: 3/1/2022 6:28 PM

Resent w/ fixed Subject

From: Douglas Young
Sent: Tuesday, March 1, 2022 6:25 PM
To: David Duarte <David.Duarte@fcc.gov>
Cc: OET-SCB <OET-SCB@fcc.gov>; ELB-Coordination-Info <ELB-Coordination-Info@fcc.gov>
Subject: STA Coordination, Space Exploration Technologies Corp. (SpaceX), File #0325Attached is a coordination for the subject experimental STA. The requested start date is 01/24/2022. This request is for launch vehicle communications for SpaceX Mission-EX-ST-2022

Attached is a coordination for the subject experimental STA. The requested start date is **04/07/2022**. This request is for launch vehicle communications for SpaceX Mission 1523 from SLC-4E, Vandenberg Air Force Base between **04/07/2022** and **10/07/2022**.

Please CC 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. (SpaceX)

File Number: 0325-EX-ST-2022

Start Date: 4/7/2022

End Date: 10/7/2022

Why STA Is Necessary:

This application uses information from previous grant 1981-EX-ST-2021. There is a Stage1TX2/Stage2TX1 frequency swap for this mission to mitigate interference. This STA is necessary to authorize launch vehicle communications for SpaceX Mission 1523 from SLC-4E, Vandenberg Space Force Base. The application includes sub-orbital first stage and orbital second stage. Trajectory data shall be provided directly to NTIA, USAF, and NASA. All downrange Earth stations are receive-only. The recovery portion is limited to two functions: 1) pre-launch checkout test of the command uplink from an onshore station at VSFB, and 2) experimental post landing first-stage uplink testing from the onshore station at VSFB. All operations are pre-coordinated with the Launch Range.

Purpose of Operation:

Launch vehicle communications for mission launching from Vandenberg Space Force Base.

Contact: Kristi Key

Phone: 310-429-0093

Email: kristina.key@spacex.com

Nature of Service: EXPERIMENTAL

Class of Station: XT FX MO

Call Sign: WG9XHP

Station Location (1)

MOBILE: SLC 4E, VAFB: Launch vehicle stage 1, sub-orbital

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2232.5 MHz	MO	4M84F1D	10.8W (ERP)	0.00022500
2247.5 MHz	MO	4M84F1D	11.8W (ERP)	0.00022500

Station Location (2)

MOBILE: SLC 4E, VAFB: Launch vehicle 2nd stage, orbital

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2255.5 MHz	MO	4M14F1D	9.4W (ERP)	0.00022500
2272.5 MHz	MO	4M14F1D	9.6W (ERP)	0.00022500

Station Location (3)

Vandenberg AFB, SANTA BARBARA, CA- NL 34-38-00; WL 120-36-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2090 MHz	FX	800KG1D	3W (ERP)	0.00022500