Douglas Young

From: Douglas Young
Sent: Monday, August 21, 2023 5:34 PM
To: David Duarte; Joseph Prebble
Cc: OET-SCB; ELB-Coordination-Info
Subject: STA Coordination, Space Exploration Technologies Corp. (SpaceX), File #1631-EX-ST-2023
Attachments: 1631-EX-ST-2023.rtf

Tracking:

Recipient	Read
David Duarte	
Joseph Prebble	Read: 8/22/2023 8:17 AM
OET-SCB	
ELB-Coordination-Info	Read: 8/21/2023 5:34 PM

Attached is a coordination for the subject experimental STA. The requested start date is **09/08/2023**. This request is for launch vehicle communications for SpaceX Mission 2190 Starlink Group 7-8/Dogleg Trajectory Option from SLC-4E, Vandenberg Space Force Base and the experimental recovery operation following the Falcon 9 launch between **09/08/2023** and **03/08/2024**.

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: 1631-EX-ST-2023

Start Date: 9/8/2023 **End Date:** 3/8/2024

Why STA Is Necessary:
This STA uses information from previous application 1520-EX-ST-2023. This STA is necessary to authorize launch vehicle communications for SpaceX Mission 2190 Starlink Group 7-8/Dogleg Trajectory Option from SLC-4E, Vandenberg Space Force Base, and the experimental recovery operation following the Falcon 9 launch. 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 the launch site, and 2) command of landed stage from recovery boat. All operations are pre-coordinated with the Launch Range. Launch licensing authority is FAA Office of Commercial Space Transportation.

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 MO
Call Sign: WG9XHP

Station Location (1)
MOBILE: SLC 4E, VSFB: Launch vehicle stage 1, sub-orbital

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2247.5 MHz	MO	4M88G1D	11.8W (ERP)	0.00022500
2255.5 MHz	MO	4M88G1D	10.8W (ERP)	0.00022500

Station Location (2)
MOBILE: SLC 4E, VSFB: Launch vehicle 2nd stage, orbital

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2232.5 MHz	MO	3M90G1D	9.4W (ERP)	0.00022500
2272.5 MHz	MO	3M90G1D	9.6W (ERP)	0.00022500

Station Location (3)
MOBILE: Autonomous Drone Ship, within 40.5 nautical miles, within 75 km, centered around NL 28-55-50; WL 119-05-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2090 MHz	MO	800KG1D	3W (ERP)	0.00025000

Station Location (4)
MOBILE: Boat, within 40.5 nautical miles, within 75 km, centered around NL 28-55-50; WL 119-05-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2090 MHz	MO	800KG1D	3W (ERP)	0.00025000