United States of America FEDERAL COMMUNICATIONS COMMISSION EXPERIMENTAL SPECIAL TEMPORARY AUTHORIZATION

	EXPERIMENTAL (Nature of Service)			WG9XHP			
_				(Call Sign)			
	XT	MO		0120-EX-ST-2017			
_	(Cla	ass of Station)		(File Number)			
NAME	Space Exploration Technologies Corp. (SpaceX)						
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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:

Launch vehicle communications, for F9-35 GTO launch from Kennedy Space Center.

Station Locations

(1) MOBILE: Pad 39a, KSC: Launch vehicle stage 1, sub-orbital

(2) MOBILE: Pad 39a: Launch vehicle 2nd stage, orbital

Frequency Information

MOBILE: Pad 39a, KSC: Launch vehicle stage 1, sub-orbital

Frequency 2221.5 MHz	Station Class MO	Emission Designator 3M27F1D	Authorized Power 33.9 W (ERP)	Frequency Tolerance (+/-)
2273.5 MHz	МО	3M27F1D	33.9 W (ERP)	



Frequency Information

MOBILE: Pad 39a: Launch vehicle 2nd stage, orbital

Frequency 2213.5 MHz	Station Class MO	Emission Designator 3M27F1D	Authorized Power 32.4 W (ERP)	Frequency Tolerance (+/-)
2251.5 MHz	МО	1M00F1D 3M27F1D 2M00F1D	33.9 W (ERP)	
5765 MHz	МО	2M00LXN	193 W (ERP)	

Special Conditions:

- (1) All operations shall be limited to telemetry, tracking and launch vehicle communications for F9-35 GTO mission. This STA is limited to the single SpaceX F9 launch of F9-35 GTO mission. This STA will expire as soon as the launch/mission has been completed or 1 September 2017, whichever occurs first. Any future launches will need to submit applications to the FCC to be re-coordinated with the NTIA.
- (2) SpaceX shall be aware that future non-federal launches will be considered on a case-by-case basis, especially for requests in the band 2200-2290 MHz, and SpaceX shall have no expectations that future launches will be approved.
- (3) All SpaceX operations granted on an experimental basis shall be on an unprotected, noninterference basis to authorized federal stations.
- (4) As soon as possible, but no later than 60 business days prior to the planned launch, SpaceX is required to provide, as a minimum, launch date/window and planned first-and second-stage trajectory, transmission frequencies with associated duration/cut-off time to Jimmy Nguyen (jimmy.nguyen@us.af.mil, AFSMO), Felipe Arroyo (felipe.arroyo-1@nasa.gov, NASA/WFF), Scott Galbraith (vincent.s.galbraith@nasa.gov, NASA/GSFC), Kevin Vipavetz (keven.g.vipavetz@nasa.gov, NASA/LaRC), NOAA Satellite Operations Control Center (philip.l.whaley@noaa.gov), and Cathy Sham (catherine.c.sham@nasa.gov). In the event of last-minute changes, 48-hour notice is required.
- (5) Sixty (60) days prior to transmitting at Cape Canaveral AFS, Florida, SpaceX shall coordinate and schedule their operations with Range Scheduling, COMM: (321)-853-5941, email: 1ropschd@us.af.mil, Jamie Bjornbak (James.P.Bjornbak@nasa.gov, 321.867.6905, NASA KSC SMO), and Scott Galbraith (vincent.s.galbraith@nasa.gov, 301-286-5089, NASA GSFC SMO).

Special Conditions:

- (6) All transmissions in the band 2200-2290 MHz shall comply with national and international power flux density limits, unless otherwise coordinated and agreed to. PFD analysis and exceedances shall be provided in the FCC application and provided to the NTIA for US Government review.
- (7) Due to potential harmful interference to naval activities, SpaceX RF operations plan shall be submitted, at least 60 days prior to planned launch date, to the Naval Surface Warfare Center, Dahlgren Division (NSWCDD), Mr. James Moneyhon (540)653-3477, or james.moneyhon@navy.mil, for assessment. A blackout zone of 1500 nautical mile radius, centered at 22N160W, shall be assumed, unless otherwise coordinated with, and agreed to, by the NSWCDD. SpaceX must also comply with any and all restrictions that may be levied by the Naval Surface Warfare Center, Dahlgren Division (NSWCDD).
- (8) The STOP BUZZER POC information for launch operations shall be provided to NTIA (bmitchell@ntia.doc.gov). This phone shall be manned 24/7.

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