

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

EXPERIMENTAL

(Nature of Service)

WQ9XSZ

(Call Sign)

XT FX MO

(Class of Station)

0822-EX-ST-2020

(File Number)

NAME Rocket Lab USA, Inc.

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:

Rocket Lab USA, Inc. & Electron Launch Vehicle delivers small satellites into low earth orbit.

Station Locations

- (1) MOBILE: Launch from Wallops Flight Facility. (Stage 2), within 10 km, centered around NL 37-50-00; WL 75-29-18
- (2) MOBILE: Orbital launch vehicle 37-40 deg. inclination, within 10 km, centered around NL 37-50-00; WL 75-29-18
- (3) Wallops Island (ACCOMACK), VA - NL 37-52-21; WL 75-26-31

Frequency Information

MOBILE: Launch from Wallops Flight Facility. (Stage 2), within 10 km, centered around NL 37-50-00; WL 75-29-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2372.435-2375.565 MHz	MO	3M00G1D	1.08 W (ERP)	0.002 %
2381.035-2388.965 MHz	MO	7M80G1D	4.32 W (ERP)	0.002 %

This authorization effective July 15, 2020 and
will expire 3:00 A.M. EST January 11, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Orbital launch vehicle 37-40 deg. inclination, within 10 km, centered around NL 37-50-00; WL 75-29-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
401.1285-401.1715 MHz	MO	23K0G1D	0.61 W (ERP)	0.00025 %
2272.135-2272.865 MHz	MO	302KG1D	0.61 W (ERP)	0.0014 %

Wallops Island (ACCOMACK), VA - NL 37-52-21; WL 75-26-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
401.1285-401.1715 MHz	FX	23K0G1D	0.61 W (ERP)	0.00025 %

Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1535 or 2310-2390 MHz was coordinated prior to authorization with the Mid-Atlantic Area Frequency Coordinator (AFC), Patuxent River, MD, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the AFC as necessary to ensure compatibility with existing uses.
- (2) Upon receipt of a conjunction warning from the JSpOC or other source, the licensee must review the warning and take all possible steps to assess and, if necessary, to mitigate collision risk, including, but not limited to: contacting the operator of any active spacecraft involved in such warning; sharing ephemeris data and other appropriate operational information with any such operator; modifying spacecraft attitude and/or operations.
- (3) Following launch of the satellite, the licensee must notify the FCC through electronic submission to the license file, of the status of the satellite (transmissions commenced, etc.), not later than 7 days after commencement or expected commencement of transmissions, and of termination of transmissions, not later than three months after such termination.
- (4) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (5) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

- (6) All operations are limited to telemetry, tracking, and launch vehicle communications for a Rocket Lab Electron launch vehicle launch from Rocket Lab Launch Complex 2, Wallops Island, VA. This authorization is limited to a single Rocket Lab Electron launch vehicle launch and the associated prelaunch ground testing from Rocket Lab Launch Complex 2, Wallops Island, VA. This authorization will expire as soon as the launch has been completed or 10 January 2021, whichever occurs first.
- (7) Rocket Lab USA, Inc. shall be aware that future requests for non-federal operations in the 2200-2290 MHz band will be considered on a case-by-case basis, and Rocket Lab USA, Inc. shall have no expectations that future requests will be approved.
- (8) All ground testing operations at Wallops Island, VA shall be pre-coordinated and scheduled with the NASA GSFC Spectrum Office (NASA-DL-GSFC-Spectrum-Management@mail.nasa.gov), the NASA WFF Spectrum Office (felipe.arroyo-1@nasa.gov), and the NOAA Satellite Operations Control Center (Matt.G.Sullivan@noaa.gov), at least 10 business days prior to operations. In the event of last-minute changes, 48-hour notice is required.
- (9) As soon as possible, but no later than 60 business days prior to the planned launch, Rocket Lab is required to provide, as a minimum, launch date/time/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), NASA GSFC Spectrum Office (NASA-DL-GSFC-Spectrum-Management@mail.nasa.gov), Stephen Horan (stephen.j.horan@nasa.gov, NASA LaRC), Kenneth Dudley (kenneth.l.dudley@nasa.gov, NASA/LaRC), NOAA Satellite Operations Control Center (Matt.G.Sullivan@noaa.gov), Richard Ontiveros, (richard.ontiveros1@navy.mil, NMSC), and Cathy Sham (catherine.c.sham@nasa.gov, NASA JSC). In the event of last-minute changes, 48-hour notice is required.
- (10) All transmissions in the 2200-2290 MHz frequency band shall comply with national and international power flux density limits, unless otherwise coordinated and agreed to. PFD analysis and exceedances shall be included in the FCC application and provided to the NTIA for US Government review.
- (11) The Stop Buzzer information, for testing operations shall be provided to NTIA (bmitchell@ntia.doc.gov) and DHS (jason.chabot@hq.dhs.gov). This phone shall be manned during all testing operations.
- (12) Due to the potential of conflict with on-going naval and DoD test activities, request Rocket Lab precoordinate with the personnel listed below for the dates of 25 -28 Aug 20 specifically for the stage 3 downlink to Long Beach, CA.
W_DLGR_NSWC_FTMA_FM@navy.mil. Mr. James Moneyhon, (540) 653-3477- james.moneyhon@navy.mil, Mr. A. Jason Verdugo, (540) 653-9590 – Anthony.J.Verdugo@navy.mil, and/or Mr. Phillip B. Scyphers, (540) 653-6071 – Phillip.scyphers@navy.mil
- (13) POINT OF COMMUNICATION: ELECTRONUSA-1 Satellite.