

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WL2XJI

(Call Sign)

XT FX MO

(Class of Station)

0745-EX-CN-2020

(File Number)

NAME Virgin Galactic LLC

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(h) of the Commission's Rules

Station Locations

- (1) MOBILE: Spaceport America, Truth or Consequence, NM, within 185 km, centered around NL 32-59-14; WL 106-58-37
- (2) MOBILE: Spaceport America, Sierra County, NM, within 185 km, centered around NL 32-59-14; WL 106-58-37
- (3) MOBILE: Mojave Airport, Kern County, CA, within 185 km, centered around NL 35-02-54; WL 118-08-58
- (4) MOBILE: Mojave Airport, Kern County, CA, within 185 km, centered around NL 35-02-54; WL 118-08-58
- (5) MOBILE: Spaceport America, Truth or Consequence, NM, within 185 km, centered around NL 32-59-14; WL 106-58-37
- (6) MOBILE: Spaceport America, Truth or Consequence, NM, within 185 km, centered around NL 32-59-14; WL 106-58-37
- (7) MOBILE: Spaceport America, Truth or Consequence, NM, within 185 km, centered around NL 32-59-14; WL 106-58-37
- (8) Mojave, CA - NL 35-02-54; WL 118-08-58
- (9) Truth or Consequence, NM - NL 32-59-14; WL 106-58-37

This authorization effective February 08, 2021 and
will expire 3:00 A.M. EST February 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Spaceport America, Truth or Consequence, NM, within 185 km, centered around NL 32-59-14; WL 106-58-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
123.275 MHz	MO	25K0A3E	16 W (ERP)	
123.45 MHz	MO	25K0A3E	16 W (ERP)	
123.525 MHz	MO	25K0A3E	16 W (ERP)	

MOBILE: Spaceport America, Sierra County, NM, within 185 km, centered around NL 32-59-14; WL 106-58-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1445.5 MHz	MO	3M75G7D	10 W (ERP)	
1451.5 MHz	MO	3M75G7D	10 W (ERP)	
1462.5 MHz	MO	3M75G7D	10 W (ERP)	
1470.5 MHz	MO	3M75G7D	10 W (ERP)	
1480.5 MHz	MO	3M75G7D	10 W (ERP)	
2360-2390 MHz	MO	15M6G7D	20 W (ERP)	

Frequency Information

MOBILE: Mojave Airport, Kern County, CA, within 185 km, centered around NL 35-02-54; WL 118-08-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
123.225 MHz	MO	25K0A3E	16 W (ERP)	
123.375 MHz	MO	25K0A3E	16 W (ERP)	
123.45 MHz	MO	25K0A3E	16 W (ERP)	

MOBILE: Mojave Airport, Kern County, CA, within 185 km, centered around NL 35-02-54; WL 118-08-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1445.5 MHz	MO	3M75G7D	10 W (ERP)	
1451.5 MHz	MO	3M75G7D	10 W (ERP)	
1462.5 MHz	MO	3M75G7D	10 W (ERP)	
1470.5 MHz	MO	3M75G7D	10 W (ERP)	
1480.5 MHz	MO	3M75G7D	10 W (ERP)	
2360-2390 MHz	MO	15M6G7D	10 W (ERP)	

Frequency Information

MOBILE: Spaceport America, Truth or Consequence, NM, within 185 km, centered around NL 32-59-14; WL 106-58-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1445.5 MHz	MO	3M75G7D	2 W (ERP)	
1451.5 MHz	MO	3M75G7D	2 W (ERP)	
1462.5 MHz	MO	3M75G7D	2 W (ERP)	
1470.5 MHz	MO	3M75G7D	2 W (ERP)	
1480.5 MHz	MO	3M75G7D	2 W (ERP)	

MOBILE: Spaceport America, Truth or Consequence, NM, within 185 km, centered around NL 32-59-14; WL 106-58-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1445.5 MHz	MO	3M75G7D	8 W (ERP)	
1451.5 MHz	MO	3M75G7D	8 W (ERP)	
1462.5 MHz	MO	3M75G7D	8 W (ERP)	
1470.5 MHz	MO	3M75G7D	8 W (ERP)	

Frequency Information

MOBILE: Spaceport America, Truth or Consequence, NM, within 185 km, centered around NL 32-59-14; WL 106-58-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1480.5 MHz	MO	3M75G7D	8 W (ERP)	

MOBILE: Spaceport America, Truth or Consequence, NM, within 185 km, centered around NL 32-59-14; WL 106-58-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
123.275 MHz	MO	25K0A3E	16 W (ERP)	
123.45 MHz	MO	25K0A3E	16 W (ERP)	
123.525 MHz	MO	25K0A3E	16 W (ERP)	

Mojave, CA - NL 35-02-54; WL 118-08-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
123.225 MHz	FX	25K0A3E	50 W (ERP)	
123.375 MHz	FX	25K0A3E	50 W (ERP)	
123.45 MHz	FX	25K0A3E	50 W (ERP)	

Frequency Information

Truth or Consequence, NM - NL 32-59-14; WL 106-58-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
123.275 MHz	FX	25K0A3E	50 W (ERP)	
123.45 MHz	FX	25K0A3E	50 W (ERP)	
123.525 MHz	FX	25K0A3E	50 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) Prior to commencing any operations in Aeronautical and Fixed frequencies 1435-1525 MHz and 2360-2395 MHz, the applicant must coordinate with the Aerospace and Flight Test Radio Coordinating Council (AFTRCC).
- (4) The applicant must comply with resolution 750 OOB limits.
- (5) During transmission, aircraft shall not exceed the altitude list in the circuit remarks field 3000, AGL.
- (6) Use of this frequency or band 2360-2390 MHz under the authority of this assign is subject to further coordination with the WAFC, as necessary to ensure compatibility with the existing uses.
- (7) Operation is subject to coordination with the area frequency coordinator located at White Sands Missile Range, New Mexico, prior to use in the State of New Mexico or other US territory within a 240 km radius of WSMR plus the area of Utah and Colorado that lies South of 41 North and between 108 and 111 West.
- (8) Use of this frequency or band 1435-1525 MHz under the authority of this assign is subject to further coordination with the AFC, WSMR, New Mexico, as necessary to ensure compatibility with the existing uses.
- (9) Stop Buzzers, John Kilchrist at (661) 858-6616.
- (10) Operation is non-interference basis to current authorizations within radio line of sight.
- (11) Virgin Galactic, LLC must coordinate operations with the Spaceport America, Director of Aerospace Operations, who in turn, will coordinate with White Sands Missile Range (WSMR), through the WSMR spaceport liaison.

Special Conditions:

- (12) Avoid transmissions within 75 km of the two sites, VLA (NL 34-04-44; WL 107-37-06) and the Pie Town, NM VLBA site (NL 34-18-04; WL 108-07-09) Virgin Galactic must coordinate activities with the Point of Contact for both sites: Dan "Mert" Mertely nrao-rfi@nrao.edu phone: (575) 835-7128