

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

EXPERIMENTAL

(Nature of Service)

WJ2XNZ

(Call Sign)

XC FX MO

(Class of Station)

0023-EX-CM-2019

(File Number)

NAME Space Explorations Technologies

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(c & j) of the Commission's Rules

Station Locations

- (1) MOBILE: Hawthorne, CA: Mobile within the SpaceX factory, within 0.05 km, centered around NL 33-55-14; WL 118-19-41
- (2) MOBILE: CCAFS, FL: Mobile within integration facility DPF, within 0.1 km, centered around NL 28-28-14; WL 80-34-48
- (3) MOBILE: CCAFS, FL: Mobile within integration facility NPF, within 0.1 km, centered around NL 28-28-11; WL 80-34-44
- (4) MOBILE: CCAFS, FL: Mobile within integration facility PPF, within 0.1 km, centered around NL 28-32-37; WL 80-35-24
- (5) Redondo Beach (LOS ANGELES), CA - NL 33-53-33; WL 118-22-15

Frequency Information

MOBILE: Hawthorne, CA: Mobile within the SpaceX factory, within 0.05 km, centered around NL 33-55-14; WL 118-19-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
400.5 MHz	MO	338KF1D 24K0F1D	15 W (ERP)	0.001 %
1575.42 MHz	MO	20M0G1D	10 pW (ERP)	0.001 %

This authorization effective August 05, 2019 and
will expire 3:00 A.M. EST October 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Hawthorne, CA: Mobile within the SpaceX factory, within 0.05 km, centered around NL 33-55-14; WL 118-19-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2028.78 MHz	MO	4M15G1D	10 mW (ERP)	0.001 %
2106.40625 MHz	MO	4M31G1D	10 mW (ERP)	0.001 %
2203.2 MHz	MO	4M15G1D	193 W (ERP)	0.001 %
2216 MHz	MO	4M65F1D 1M76F1D 347KF1D	193 W (ERP)	0.001 %
2287.5 MHz	MO	4M80G1D	193 W (ERP)	0.001 %

MOBILE: CCAFS, FL: Mobile within integration facility DPF, within 0.1 km, centered around NL 28-28-14; WL 80-34-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
400.5 MHz	MO	338KF1D 24K0F1D	15 W (ERP)	0.001 %
1575.42 MHz	MO	20M0G1D	10 pW (ERP)	0.001 %
2028.78 MHz	MO	4M15G1D	10 mW (ERP)	0.001 %

Frequency Information

MOBILE: CCAFS, FL: Mobile within integration facility DPF, within 0.1 km, centered around NL 28-28-14; WL 80-34-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2106.40625 MHz	MO	4M31G1D	10 mW (ERP)	0.001 %
2203.2 MHz	MO	4M15G1D	193 W (ERP)	0.001 %
2216 MHz	MO	4M65F1D 1M76F1D 347KF1D	193 W (ERP)	0.001 %
2287.5 MHz	MO	4M80G1D	193 W (ERP)	0.001 %

MOBILE: CCAFS, FL: Mobile within integration facility NPF, within 0.1 km, centered around NL 28-28-11; WL 80-34-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
400.5 MHz	MO	338KF1D 24K0F1D	15 W (ERP)	0.001 %
1575.42 MHz	MO	20M0G1D	10 pW (ERP)	0.001 %
2028.78 MHz	MO	4M15G1D	10 mW (ERP)	0.001 %
2106.40625 MHz	MO	4M31G1D	10 mW (ERP)	0.001 %

Frequency Information

MOBILE: CCAFS, FL: Mobile within integration facility NPF, within 0.1 km, centered around NL 28-28-11; WL 80-34-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2203.2 MHz	MO	4M15G1D	193 W (ERP)	0.001 %
2216 MHz	MO	4M65F1D 1M76F1D 347KF1D	193 W (ERP)	0.001 %
2287.5 MHz	MO	4M80G1D	193 W (ERP)	0.001 %

MOBILE: CCAFS, FL: Mobile within integration facility PPF, within 0.1 km, centered around NL 28-32-37; WL 80-35-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
400.5 MHz	MO	338KF1D 24K0F1D	15 W (ERP)	0.001 %
1575.42 MHz	MO	20M0G1D	10 pW (ERP)	0.001 %
2028.78 MHz	MO	4M15G1D	10 mW (ERP)	0.001 %
2106.40625 MHz	MO	4M31G1D	10 mW (ERP)	0.001 %
2203.2 MHz	MO	4M15G1D	193 W (ERP)	0.001 %

Frequency Information

MOBILE: CCAFS, FL: Mobile within integration facility PPF, within 0.1 km, centered around NL 28-32-37; WL 80-35-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2216 MHz	MO	2M73F1D 1M76F1D 4M65F1D	193 W (ERP)	0.001 %
2287.5 MHz	MO	4M80G1D	193 W (ERP)	0.001 %

Redondo Beach (LOS ANGELES), CA - NL 33-53-33; WL 118-22-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
400.5 MHz	MO	338KF1D 24K0F1D	15 W (ERP)	0.001 %
1575.42 MHz	MO	20M0G1D	10 pW (ERP)	0.001 %
2028.78 MHz	MO	4M15G1D	10 mW (ERP)	0.001 %
2106.40625 MHz	MO	4M31G1D	10 mW (ERP)	0.001 %
2203.2 MHz	FX	4M15G1D	193 W (ERP)	0.001 %
2216 MHz	MO	4M65F1D 1M76F1D	193 W (ERP)	0.001 %

Frequency Information

Redondo Beach (LOS ANGELES), CA - NL 33-53-33; WL 118-22-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2216 MHz	MO	347KF1D	193 W (ERP)	0.001 %
2287.5 MHz	MO	4M80G1D	193 W (ERP)	0.001 %

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (4) Licensee must maintain a point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein, for discussing interference concerns with other licensees, and must submit a letter to be included in its license file with the name and telephone number of the point of contact prior to commencing operation.