

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

EXPERIMENTAL  
(Nature of Service)

WI2XPL  
(Call Sign)

XC FX MO  
(Class of Station)

0091-EX-CN-2016  
(File Number)

NAME SpaceX

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) Hawthorne, CA - NL 33-55-14; WL 118-19-41
- (2) Hawthorne (LOS ANGELES), CA - NL 33-55-14; WL 118-19-41
- (3) MOBILE: Hawthorne, CA: Mobile within the SpaceX factory, within 0.05 km, centered around NL 33-55-14; WL 118-19-41
- (4) MOBILE: Hawthorne, CA: Mobile within the SpaceX factory, within 0.05 km, centered around NL 33-55-14; WL 118-19-41

Frequency Information

Hawthorne, CA - NL 33-55-14; WL 118-19-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2028.78 MHz	FX	4M15G1D	6095 W (ERP)	0.001 %
2040.5675 MHz	FX	5K60G1D	6095 W (ERP)	0.001 %
2106.4 MHz	FX	4M31G1D	6095 W (ERP)	0.001 %

This authorization effective December 16, 2016 and will expire 3:00 A.M. EST November 01, 2021

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Hawthorne, CA - NL 33-55-14; WL 118-19-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2203.2 MHz	FX	4M15G1D	6095 W (ERP)	0.001 %
2214.77-2217.23 MHz	FX	567KF1D	6095 W (ERP)	0.001 %
2216 MHz	FX	3M81F1D 2M46F1D	6095 W (ERP)	0.001 %
2287.5 MHz	FX	4M80G1D	316.2278 W (ERP)	0.001 %

Hawthorne (LOS ANGELES), CA - NL 33-55-14; WL 118-19-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2090 MHz	FX	800KG1D	6.095 mW (ERP)	0.001 %
2211 MHz	FX	3M22F1D 4M14F1D	6.095 mW (ERP)	0.001 %
2213.5 MHz	FX	3M27F1D	6.095 mW (ERP)	0.001 %
2214.095-2217.905 MHz	FX	567KF1D 2M46F1D	6.095 mW (ERP)	0.001 %

## Frequency Information

Hawthorne (LOS ANGELES), CA - NL 33-55-14; WL 118-19-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2216 MHz	FX	3M81F1D	6.095 mW (ERP)	0.001 %
2221.5 MHz	FX	3M27F1D	6.095 mW (ERP)	0.001 %
2232.5 MHz	FX	3M22F1D 2M90F1D	6.095 mW (ERP)	0.001 %
2251.5 MHz	FX	3M27F1D	6.095 mW (ERP)	0.001 %
2255.5 MHz	FX	4M14F1D 3M22F1D	6.095 mW (ERP)	0.001 %
2272.5 MHz	FX	3M22F1D 2M90F1D	6.095 mW (ERP)	0.001 %
2273.5 MHz	FX	3M27F1D	6.095 mW (ERP)	0.001 %
2370.5 MHz	FX	4M87F1D	6.095 mW (ERP)	0.001 %
2382.5 MHz	FX	4M87F1D	6.095 mW (ERP)	0.001 %

## 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 (+/-)
2211 MHz	MO	4M14F1D 3M22F1D	40 W (ERP)	0.001 %
2213.5 MHz	MO	3M27F1D	40 W (ERP)	0.001 %
2221.5 MHz	MO	3M27F1D	40 W (ERP)	0.001 %
2232.5 MHz	MO	3M22F1D 2M90F1D	40 W (ERP)	0.001 %
2251.5 MHz	MO	3M27F1D	40 W (ERP)	0.001 %
2255.5 MHz	MO	4M14F1D 3M22F1D	40 W (ERP)	0.001 %
2272.5 MHz	MO	3M22F1D 2M90F1D	40 W (ERP)	0.001 %
2273.5 MHz	MO	3M27F1D	40 W (ERP)	0.001 %
2370.5 MHz	MO	4M87F1D	40 W (ERP)	0.001 %

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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 (+/-)
2382.5 MHz	MO	4M87F1D	40 W (ERP)	0.001 %

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 (+/-)
2090 MHz	MO	800KG1D	2 mW (ERP)	0.001 %

## Special Conditions:

- (1) Operation on frequency assignments in one of the bands 1435-1535 or 2310-2390 MHz was coordinated prior to authorization with the Western Area Frequency Coordinator (WAFC), Point Mugu, CA, 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 WAFC as necessary to ensure compatibility with existing uses.
- (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 [http://freq.sbe.org/pdf\\_files/coordinators.pdf](http://freq.sbe.org/pdf_files/coordinators.pdf) to find the appropriate coordinator.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.