

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WK2XLW

(Call Sign)

0580-EX-CN-2019

(File Number)

NAME Aerospace Corporation, The

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(a & d) of the Commission's Rules

Station Locations

- (1) El Segundo (LOS ANGELES), CA - NL 33-54-52; WL 118-22-49
- (2) College Station (BRAZOS), TX - NL 30-36-41; WL 96-20-52
- (3) Gainesville (ALACHUA), FL - NL 29-38-53; WL 82-20-39
- (4) Kihei (MAUI), HI - NL 20-44-44; WL 156-25-52
- (5) Mt. Wilson (LOS ANGELES), CA - NL 34-13-29; WL 118-03-23
- (6) Vandenberg AFB (SANTA BARBARA), CA - NL 34-38-57; WL 120-36-51
- (7) Orr (ST LOUIS), MN - NL 48-22-45; WL 92-49-56

Frequency Information

El Segundo (LOS ANGELES), CA - NL 33-54-52; WL 118-22-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
914.7 MHz	FX	1M09F1D 1M23G1D	6095 W (ERP)	0.016 %

This authorization effective September 05, 2019 and
will expire 3:00 A.M. EST September 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

College Station (BRAZOS), TX - NL 30-36-41; WL 96-20-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
914.7 MHz	FX	1M23G1D 1M09F1D	1084 W (ERP)	0.00016 %

Gainesville (ALACHUA), FL - NL 29-38-53; WL 82-20-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
914.7 MHz	FX	1M09F1D 1M23G1D	1084 W (ERP)	0.00016 %

Kihei (MAUI), HI - NL 20-44-44; WL 156-25-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
914.7 MHz	FX	1M09F1D 1M23G1D	1084 W (ERP)	0.016 %

Mt. Wilson (LOS ANGELES), CA - NL 34-13-29; WL 118-03-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
914.7 MHz	FX	1M09F1D 1M23G1D	1084 W (ERP)	0.016 %

Frequency Information

Vandenberg AFB (SANTA BARBARA), CA - NL 34-38-57; WL 120-36-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
914.7 MHz	FX	1M23G1D 1M09F1D	1084 W (ERP)	0.016 %

Orr (ST LOUIS), MN - NL 48-22-45; WL 92-49-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
914.7 MHz	FX	1M09F1D 1M23G1D	1084 W (ERP)	0.016 %

Special Conditions:

- (1) 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.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Prior to commencing any operations in the frequencies below, the Aerospace Corporation must obtain consent from the following within 50 miles of the contours of the testing area:
 - > Location & Monitoring Service licensees (902-928 MHz)
- (5) POINT OF COMMUNICATION: SOCRATES CubeSat.