

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

EXPERIMENTAL

(Nature of Service)

WF9XVN

(Call Sign)

XT      FX MO

(Class of Station)

0687-EX-PL-2013

(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(c) of the Commission's Rules

Station Locations

- (1) El Segundo (LOS ANGELES), CA - NL 33-54-52; WL 118-22-49
- (2) Maui, HI - NL 20-42-29; WL 156-15-26
- (3) Kilauea (KAUAI), HI - NL 22-12-02; WL 159-25-51
- (4) MOBILE: 490 x 778 km elliptical orbit at 66 degree inclination
- (5) College Station (BRAZOS), TX - NL 30-36-41; WL 96-20-52
- (6) Gainesville (ALACHUA), FL - NL 29-38-53; WL 82-20-39

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            | 357KF1D<br>1M09F1D  | 1535 W (ERP)     | 0.016 %                   |

This authorization effective November 05, 2013 and  
will expire 3:00 A.M. EST November 01, 2014

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Maui, HI - NL 20-42-29; WL 156-15-26

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 914.7 MHz | FX            | 357KF1D<br>1M09F1D  | 775 W (ERP)      | 0.016 %                   |

Kilauea (KAUAI), HI - NL 22-12-02; WL 159-25-51

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 914.7 MHz | FX            | 357KF1D<br>1M09F1D  | 775 W (ERP)      | 0.016 %                   |

MOBILE: 490 x 778 km elliptical orbit at 66 degree inclination

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 914.7 MHz | MO            | 357KF1D<br>1M09F1D  | 3 W (ERP)        | 0.016 %                   |

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

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 914.7-914.7 MHz | FX            | 1M09F1D<br>357KF1D  | 1258 W (ERP)     | 0.00016 %                 |

## Frequency Information

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

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 914.7-914.7 MHz | FX            | 1M09F1D<br>357KF1D  | 1258 W (ERP)     | 0.00016 %                 |

## Special Conditions:

- (1) Aerospace Corp must coordinate with the Western Area Frequency Coordinator (WAFC), Mr. J. Richardson, (760) 939-6948/6832 prior to operating in California and the Area Frequency Coordinator at the White Sands Missile Range prior to operating in New Mexico
- (2) Aerospace Corp. must have White Sands Missile Range sponsor to obtain access to the site, and to operate any equipment at that location.