

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WA9XFF

(Call Sign)

XD      FX MO

(Class of Station)

0310-EX-ST-1999

(File Number)

NAME AEROSPACE CORPORATION, THE

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

**Purpose Of Operation:**

Research regarding feasibility of very small satellites, emerging microelectromechanical systems (MEMS) technologies in space and the effect of the space environment on microelectronics.

**Station Locations**

- (1) Palo Alto, CA - NL 37-27-00; WL 122-09-00
- (2) MOBILE: SPACE, altitude 750 km, inclination 100 deg., right ascension 265 deg.

**Frequency Information**

Palo Alto, CA - NL 37-27-00; WL 122-09-00

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-915 MHz | FX            | F7W                 | 81 mW (ERP)      |                           |

MOBILE: SPACE, altitude 750 km, inclination 100 deg., right ascension 265 deg.

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 902-915 MHz | MO            | F7W                 | 100 mW (ERP)     |                           |

**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) Authorization is contingent on payment of fee.

This authorization effective NOV 02, 1999 and  
will expire 3:00 A.M. EST FEB 02, 2000

**FEDERAL  
COMMUNICATIONS  
COMMISSION**

