

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

EXPERIMENTAL

(Nature of Service)

WD2XZB

(Call Sign)

XC      FX MO

(Class of Station)

0275-EX-PL-2006

(File Number)

NAME Northrop Grumman Space Technology & Mission Systems Corp.

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(b) of the Commission's Rules

Station Locations

- (1) MOBILE: San Diego (SAN DIEGO), CA, airborne with a minimum altitude of 3,050 meters and a maximum altitude of 6,100 meters, within 56 km, centered around NL 32-59-25; WL 117-04-46
- (2) San Diego (SAN DIEGO), CA - NL 32-59-31; WL 117-04-48
- (3) San Diego (SAN DIEGO), CA - NL 32-59-25; WL 117-04-27

Frequency Information

MOBILE: San Diego (SAN DIEGO), CA, airborne with a minimum altitude of 3,050 meters and a maximum altitude of 6,100 meters, within 56 km, centered around NL 32-59-25; WL 117-04-46

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 1378 MHz  | MO            | 3M00G1D             | 100 W (ERP)      |                           |
| 1378 MHz  | FX            | 3M00G1D             | 100 W (ERP)      |                           |

This authorization effective March 14, 2007 and  
will expire 3:00 A.M. EST January 01, 2009

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

San Diego (SAN DIEGO), CA - NL 32-59-31; WL 117-04-48

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 1378 MHz  | FX            | 3M00G1D             | 100 W (ERP)      |                           |

San Diego (SAN DIEGO), CA - NL 32-59-25; WL 117-04-27

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 1378 MHz  | FX            | 3M00G1D             | 100 W (ERP)      |                           |

## Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Scheduling with Western Area Frequency Coordinator, Steve Tosen, (805) 989-7883, is required 48 hours in advance of the use of the frequency 1378 MHz.
- (4) Northrop Grumman and the DoD JPO shall continue to work through the IRAC/SPS to get JTRS approved for the waveform and frequency band being tested.
- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the US Government contract number FA8709-04-C-0011. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (6) This frequency assignment on 1378 MHz was coordinated prior to authorization with the FAA Western Coordinator, Los Angeles, California. Use of this frequency under the authority of this assignment is subject to such further coordination with the FAA Western Coordinator, Los Angeles, California, as necessary to ensure compatibility with existing uses.
- (7) Pulse Repetition Rate: 134 pulses per second.