

**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)

0333-EX-RR-2010

(File Number)

NAME Northrop Grumman Systems Corporation

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 January 01, 2011 and
will expire 3:00 A.M. EST January 01, 2013

**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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Scheduling with Western Area Frequency Coordinator, 760-939-6948/6832, 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.