

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

EXPERIMENTAL

(Nature of Service)

WF2XEK

(Call Sign)

XT FX MO

(Class of Station)

0020-EX-ML-2011

(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(f) of the Commission's Rules

Station Locations

- (1) Reston (FAIRFAX), VA - NL 38-57-15; WL 77-21-25; MOBILE: , within 16.1 km
- (2) San Diego (SAN DIEGO), CA - NL 32-59-28; WL 117-04-36; MOBILE: , within 100 km
- (3) Carson (LOS ANGELES), CA - NL 33-51-36; WL 118-14-13; MOBILE: within 16.1 km
- (4) Orlando (ORANGE), FL - NL 28-36-06; WL 81-13-17; MOBILE: , within 16.1 km
- (5) Yuma (YUMA), AZ - NL 32-50-16; WL 114-23-23; MOBILE: , within 160.9 km

Frequency Information

Reston (FAIRFAX), VA - NL 38-57-15; WL 77-21-25; MOBILE: , within 16.1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4600-4900 MHz	FX	22M0G1D	40 W (ERP)	
4600-4900 MHz	MO	22M0G1D	40 W (ERP)	

This authorization effective January 28, 2011 and
will expire 3:00 A.M. EST January 01, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

San Diego (SAN DIEGO), CA - NL 32-59-28; WL 117-04-36; MOBILE: , within 100 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4940-4990 MHz	FX	22M0G1D	40 W (ERP)	
4940-4990 MHz	MO	22M0G1D	40 W (ERP)	

Carson (LOS ANGELES), CA - NL 33-51-36; WL 118-14-13; MOBILE:within 16.1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4940-4990 MHz	FX	22M0G1D	40 W (ERP)	
4940-4990 MHz	MO	22M0G1D	40 W (ERP)	

Orlando (ORANGE), FL - NL 28-36-06; WL 81-13-17; MOBILE: , within 16.1 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4940-4990 MHz	FX	22M0G1D	40 W (ERP)	
4940-4990 MHz	MO	22M0G1D	40 W (ERP)	

Frequency Information

Yuma (YUMA), AZ - NL 32-50-16; WL 114-23-23; MOBILE: , within 160.9 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4940-4990 MHz	MO	22M0G1D	500 W (ERP)	
4940-4990 MHz	FX	22M0G1D	500 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) Licensee shall search the FCC's Universal Licensing System (ULS) at <http://wireless2.fcc.gov/UlsApp/UlsSearch/searchLicense.jsp> for licensees in the 4940-4990 MHz band in the Carson, CA, San Diego, CA, Orlando, FL and Yuma, AZ areas. Any licensees found in the searches shall be notified prior to operation.