

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

EXPERIMENTAL

(Nature of Service)

WK9XRW

(Call Sign)

XT FX MO

(Class of Station)

1664-EX-ST-2016

(File Number)

NAME Northrop Grumman Systems Corporation

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:

Demonstration of the capabilities of Northrop Grumman's Freedom 350 and Freedom 450 Wideband Networking Waveform (WNW) and Soldier Radio Waveform (SRW).

Station Locations

- (1) San Diego (SAN DIEGO), CA - NL 32-59-26; WL 117-04-40; MOBILE: max altitude 35,000 ft AMSL, within 278 km

Frequency Information

San Diego (SAN DIEGO), CA - NL 32-59-26; WL 117-04-40; MOBILE: max altitude 35,000 ft AMSL, within 278 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
430-450 MHz	MO	3M00G1D 1M20G1D	100 W (Output Power)	
430-450 MHz	FX	3M00G1D 1M20G1D	100 W (Output Power)	

This authorization effective January 03, 2017 and
will expire 3:00 A.M. EST July 03, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

San Diego (SAN DIEGO), CA - NL 32-59-26; WL 117-04-40; MOBILE: max altitude 35,000 ft AMSL, within 278 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	FX	1M20G1D 3M00G1D 5M00G1D 10M0G1D 30M0G1D	100 W (Output Power)	
902-928 MHz	MO	1M20G1D 3M00G1D 5M00G1D 10M0G1D 30M0G1D	100 W (Output Power)	

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) NTIA objects to the use of the 250-252 MHz band due to FAA operations and safety of flight issues in the area.
- (3) Northrop Grumman must notify all Location & Monitoring Service licensees (902-928 MHz) within 80 km of the test area(s) prior to operation.