

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

EXPERIMENTAL

(Nature of Service)

WG9XHQ

(Call Sign)

XT FX MO

(Class of Station)

0111-EX-ST-2015

(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:

Operation of a trial 700 MHz LTE network for use in the development of solutions intended to advance the FirstNet program and the development of the FirstNet Nationwide Network.

Station Locations

- (1) McLean, VA - NL 38-55-17; WL 77-12-23; MOBILE: Indoors, within 0.02 km
- (2) Brooklyn, NY - NL 40-41-29; WL 73-59-23; MOBILE: Indoors, within 0.02 km

Frequency Information

McLean, VA - NL 38-55-17; WL 77-12-23; MOBILE: Indoors, within 0.02 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	FX	10M0F9W	1 W (ERP)	0.001 %
788-798 MHz	MO	10M0F9W	317 mW (ERP)	0.001 %

This authorization effective February 23, 2015 and
will expire 3:00 A.M. EST May 18, 2015

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Brooklyn, NY - NL 40-41-29; WL 73-59-23; MOBILE: Indoors, within 0.02 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	FX	10M0F9W	3.9 mW (ERP)	0.001 %
788-798 MHz	MO	10M0F9W	317 mW (ERP)	0.001 %

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) This temporary operation will not be used in mission-critical operations or in the delivery of live transmissions in duties to protect life, property, or safety.
- (3) Given the fact that FirstNet recently has entered into a Spectrum Manager Lease Agreement (SMLA) with New Jersey, it is possible that interference from the proposed STA will be experienced by New Jersey's operations under the SMLA. To mitigate the risk of harmful interference, FirstNet can request the FCC to order the licensee to cease operations upon notice and no later than within 24 hours of said notice.
- (4) Northrop understands that FirstNet has the right to monitor its operations.
- (5) To the extent FirstNet or any lessee deploys service over FirstNet's spectrum that suffers harmful interference from Northrop Grumman's operations under the requested STA, Northrop Grumman will, within twenty-four (24) hours of receiving notice of such interference, cure such interference by modifying or, if necessary, ceasing operation of, the Demo Network. Moreover, Northrop agrees that, to the extent the FCC grants STAs to any third parties for use of FirstNet spectrum in the vicinity of the Demo Network, Northrop will work cooperatively with such third parties to coordinate operations without the need for intervention from FirstNet.