

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

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WG9XHQ

(Call Sign)

0775-EX-ST-2012

(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 (FNN).

Station Locations

- (1) McLean (FAIRFAX), VA - NL 38-55-17; WL 77-12-23; MOBILE: , within 4.8 km
- (2) Brooklyn (KINGS), NY - NL 40-41-51; WL 73-59-11; MOBILE: , within 4 km
- (3) Falls Church (FAIRFAX), VA - NL 38-52-02; WL 77-12-54; MOBILE: , within 4.8 km
- (4) New York (KINGS), NY - NL 40-42-20; WL 74-00-41; MOBILE: , within 3.21 km

Frequency Information

McLean (FAIRFAX), VA - NL 38-55-17; WL 77-12-23; MOBILE: , within 4.8 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	FX	10M0F9W	502 W (ERP)	0.001 %
788-798 MHz	MO	10M0F9W	317 mW (ERP)	0.001 %

This authorization effective February 22, 2013 and
will expire 3:00 A.M. EST August 22, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Brooklyn (KINGS), NY - NL 40-41-51; WL 73-59-11; MOBILE: , within 4 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	FX	10M0F9W	502 W (ERP)	0.001 %
788-798 MHz	MO	10M0F9W	317 mW (ERP)	0.001 %

Falls Church (FAIRFAX), VA - NL 38-52-02; WL 77-12-54; MOBILE: , within 4.8 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	FX	10M0F9W	502 W (ERP)	0.001 %
788-798 MHz	MO	10M0F9W	317 mW (ERP)	0.001 %

New York (KINGS), NY - NL 40-42-20; WL 74-00-41; MOBILE: , within 3.21 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	FX	10M0F9W	502 W (ERP)	0.001 %
788-798 MHz	MO	10M0F9W	317 mW (ERP)	0.001 %

Special Conditions:

- (1) Operation will be confined to the immediate vicinity of four base stations located in New York City and Brooklyn, New York and Falls Church and McLean, Virginia. The equipment will include four temporary base stations and associated antennae and 20 portable units all operating at no more than three miles from the base sites.

Special Conditions:

- (2) Northrop has requested authority from the FCC to operate over the 758-768/788-798 MHz bands, which are currently licensed on a nationwide basis to FirstNet.
- (3) Operation will occur no longer than 180 days from the date on which the FCC grants Northrop an Experimental STA, allowing time during that period for setup and testing, demonstrations, and teardown.
- (4) This Experimental STA cannot be renewed. To the extent Northrop would like to obtain additional Experimental STA use of the radio frequencies licensed to FirstNet, beyond the 180 day period to which this application refers, Northrop must file a separate request with the FCC.
- (5) FirstNet understands that Northrop has analyzed Information from the FCC's license databases and has determined that the proposed operation would not interfere or create a significant potential for interference with any public safety operations in the 700 MHz band.
- (6) Northrop has stated that 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.
- (7) Northrop has stated that the Experimental STA will serve as an expository vehicle upon which advanced concepts of hypothetical first responder communications will be demonstrated.
- (8) Northrop has Implemented internal procedures to monitor and maintain control of the handsets and will promptly respond to any reports of harmful interference. Each unit will be registered to its recipient and Northrop will maintain a record of each device so that each can be easily recalled at any time during testing and when testing is complete.