

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WG9XHQ

(Call Sign)

0258-EX-ST-2014

(File Number)

NAME Northrop Grumman

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. See

Station Locations

- (1) McLean, VA - NL 38-55-17; WL 77-12-23; MOBILE: Indoors, within 0.02 km
- (2) Brooklyn, NY - NL 40-41-51; WL 73-59-11; MOBILE: , within 4 km
- (3) New York, NY - NL 40-42-20; WL 74-00-41; MOBILE: , within 3.21 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 May 02, 2014 and
will expire 3:00 A.M. EST November 02, 2014

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Brooklyn, 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 %

New York, 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) 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.
- (2) 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.
- (3) 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. Subject to certain conditions, the Commonwealth of Virginia, which is an incumbent narrowband licensee, has consented to this STA.
- (4) 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.

Special Conditions:

- (5) Operation will be confined to the immediate vicinity of three base stations: one in Manhattan and one in Brooklyn, and one in Mclean, Virginia, together with 20 end user devices and a backhaul system. In the New York metro area, the devices will operate within three miles or less of the base stations. In Mclean, the devices will operate indoors.