



Northrop Grumman Corporation
Information Systems

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February 19, 2013

Julius Knapp, Chief
Office of Engineering and Technology
Federal Communications Commission
445 12th Street, SW
Room TWA325
Washington, DC 20554

**Re: Special Temporary Authority Application
Northrop Grumman Systems Corporation
Application Number 0775-EX-ST-2012**

Dear Chief Knapp:

On September 27, 2012, Northrop Grumman Systems Corporation ("Northrop") filed the above-referenced application seeking special temporary authority (the "STA") to utilize 700 MHz spectrum that is licensed to the First Responder Network Authority ("FirstNet"). The STA application was amended on January 25, 2013. The STA is requested with an operation start date of May 1, 2013 and an operation end date of November 1, 2013.

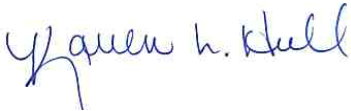
The following sets forth general information regarding the proposed temporary operation (additional detail is contained in the application, as amended):

- 1) The STA will enable Northrop to construct and operate a trial 700 MHz Long Term Evolution ("LTE") network between New York City and Northern Virginia. The objective is to use the 700 MHz LTE network with end-user devices and a backhaul system to test and develop enhanced first responder applications and solutions. The trial network will serve as an expository vehicle upon which advanced concepts of hypothetical first responder communications will be demonstrated.
- 2) In both locations, the trial network will utilize 758-768 MHz as the downlink band and 788-798 MHz as the uplink band.
- 3) Two base stations will be deployed in Northern Virginia (one in Falls Church and one in McLean) and two base stations will be deployed in New York City (one in Brooklyn and one in Manhattan).
- 4) A fully redundant backhaul link will be deployed to couple the operations in these locations to a common LTE-evolved packet core.

- 5) Twenty experimental end-user devices will be provisioned for testing and demonstration by Northrop employees. In all locations, the end user devices will be operated within a radius of three miles or less of the base stations.
- 6) Northrop's temporary operations will not be used in actual mission-critical operations or in the delivery of live transmissions to protect life, property, or safety.
- 7) 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.
- 8) Northrop has analyzed information from the FCC's license databases and has determined that the proposed operation will not interfere with, or create significant potential interference with, public safety operations in the 700 MHz band.

Northrop understands that FirstNet has the right to monitor its operations. Northrop also understands that if additional time for its trial is needed beyond November 1, 2013, it will be required to file an application with the FCC and, once again, seek FirstNet's consent. If there are any questions regarding the STA application, please do not hesitate to contact me or our counsel, Jennifer Richter at Patton Boggs (202) 457-5666.

Respectfully submitted,



Karen L. Hull
Contracts Director