

Attachment 1
Northrop Grumman Systems Corporation
Application for Special Temporary Authority

By this application, Northrop Grumman Systems Corporation (“Northrop Grumman”) is seeking special temporary authority (“STA”) for the period of July 22 through July 24, 2015 to continue certain aspects of the testing and demonstration program that it had been operating under the STA that expired May 18, 2015 pursuant to Call Sign WG9XHQ. That STA had permitted Northrop Grumman to operate a trial 700 MHz Long Term Evolution (“LTE”) network employing hypothetical first responder communications in and between the New York City metro area and the Northern Virginia metro area outside of Washington, DC (the “Demo Network”).¹ The Demo Network had consisted of indoor base stations in the Washington, DC area and Brooklyn, NY, and was used to develop, implement, test and demonstrate to a wide variety of stakeholders how a primary state public safety network operations center, with local content and local control, can interface with a regional network core as part of the First Responder Network Authority (“FirstNet”) nationwide network.

This STA request will allow Northrop Grumman to conduct a further demonstration of the Demo Network for the benefit of the City of New York’s Department of Information Technology and Telecommunications. This request is limited to the Brooklyn wireless portion of the Demo Network, which uses 758-768 MHz as the downlink band and 788-798 as the uplink band for the transmission of test local first responder communications at an indoor base station location in Brooklyn, NY. Up to twenty experimental end-user devices will be used during the demonstration, operating indoors at the same location as the base station.² As in the past, Northrop Grumman has discussed this proposed STA with FirstNet, the licensee of the spectrum to be used by Northrop Grumman and the only licensee potentially impacted by operation of the Demo Network.³ FirstNet has indicated to Northrop Grumman its support for the proposal, and that it will communicate its proposed conditions directly to the Commission.

¹ Northrop Grumman’s trial operations are not, and will not be, used in actual mission-critical operations or in the delivery of live transmissions to protect life, property, or safety.

² As Northrop Grumman has previously reported to the Commission, it has implemented internal procedures to monitor and maintain control of the handsets and will promptly respond to any reports of harmful interference.

³ With such consent, Northrop Grumman has obtained all government approvals necessary for the continued operation of the Demo Network in Brooklyn, save for the Commission’s grant of this application.

Northrop Grumman confirms the following:

1. Northrop Grumman understands that any STA granted by the Commission pursuant to this application will have secondary status, and that Northrop Grumman must accept any interference from the licensee of the spectrum and its lessees.
2. 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.
3. Northrop understands that FirstNet has the right to monitor its operations.
4. Northrop also understands that if it desires to operate the Demo Network on dates other than those proposed in the instant STA, it will be required to file an application with the FCC and, once again, seek consent from FirstNet.