

April 29, 2014

Royce Kincaid
FirstNet Campaign Director
Northrop Grumman
7555 Colshire Drive
McLean, VA 22102

Re: Consent for Special Temporary Authority

Dear Mr. Kincaid,

On October 16, 2013, the Commonwealth of Virginia, the sole guardian of the 'State' 700 MHz spectrum reference, WPTZ775, provided consent for the Special Temporary Authorization ("STA") currently held by Northrop Grumman Systems Corporation ("Northrop Grumman") (Call Sign WG9XHQ). The current STA expires on May 2, 2014, and Northrop Grumman is filing an application with the Federal Communications Commission ("FCC") for a new STA to continue identical operations of its LTE demo network from May 2, 2014 to November 2, 2014. The Commonwealth endorses Northrop Grumman's application for a new STA subject to the following terms and conditions, which shall be made part of the documentation of this request:

- The resultant FCC license matches exactly to the application and resulting documentation that was supplied in good faith by Northrop Grumman to the Commonwealth of Virginia.
- Operations are strictly limited to ground floor indoor (in-building) operations at 7575 Colshire Drive, McLean, Virginia 22102, unless authorized by the Commonwealth of Virginia. The primary radiator coordinates (Latitude and Longitude) are as stated on the STA:
 - o 38 55 17 North
 - o 77 12 23 West
- The primary radiators under test shall not exceed 1 watt of power.
- It shall be further understood that in consideration of FirstNet's consent to this STA, and the FCC's grant of this STA, Northrop Grumman automatically agrees and consents to all terms and conditions as outlined by the Commonwealth of Virginia in this consent letter. Furthermore, Northrop Grumman assumes all causalities, risks, damages, and liabilities that may result from the operations associated with this STA or any resultant STA associated with this request.
- Any deviation from this agreement will result in revocation of any and all STA's approved by the Commonwealth of Virginia. However, all causalities, risks, damages, and liabilities that may have resulted from the operations associated with any STA associated with this request will still be fully enforced to the maximum extent.

- The Comsearch results from testing the radiators for the LTE demo network to ensure no interference were filed with the FCC on October 18, 2013.
- Absence of these stated terms and conditions from the published STA documentation will null and void the STA endorsement from the Commonwealth of Virginia.
- Northrop Grumman will notify the Interoperability Coordinator, the Commonwealth Spectrum Manager, and the Virginia State Police if any upcoming test associated with this STA deviates from the operations authorized under the STA.
- Northrop Grumman shall notify the STARS NOC prior to commencing any test. Northrop Grumman shall not conduct any test authorized under the STA without the concurrence of the Virginia State Police.

Should the Commonwealth experience any verifiable interference resulting from operations associated with this STA request, Northrop Grumman and any of its partners or associates will immediately discontinue all operations until the source of the interference is fully mitigated. In addition, Northrop Grumman will supply all equipment and personnel necessary to mitigate the interference to the satisfaction of the Commonwealth of Virginia.

In the event Northrop Grumman must discontinue operations twice because the Commonwealth has experienced verifiable interference from operations associated with the STA, the Commonwealth can revoke and nullify the STA at any time immediately upon notice. Moreover, the Commonwealth of Virginia or its employees will not be held liable for any ramifications that may be associated with an unplanned revocation to this STA.

Sincerely,

A handwritten signature in black ink, appearing to read 'B. Smith', is positioned above the printed name.

Brandon Smith
Statewide Interoperability Coordinator
Secretary of Public Safety and Homeland Security
Office of the Governor of Virginia