

January 7, 2014

Julius Knapp  
Chief  
Office of Engineering and Technology  
Federal Communications Commission  
445 12<sup>th</sup> Street, S.W.  
Washington, DC 20554

RE: Request for Special Temporary Authority for LTE Broadband Testing at US Army  
AEWE 2013, File Number 0017-EX-ST-2014.

Dear Mr. Knapp

Booz Allen Hamilton Engineering Services, LLC (Booz Allen E.S.), requests approval of the above referenced Experimental Special Temporary Authorization in order to conduct testing and demonstration of Long Term Evolution (LTE) broadband communications in the 700 MHz Band 14 spectrum in support of the U.S. Army's Army Expeditionary Warfare Experiment (AEWE) to be conducted through February 28, 2014 at Ft. Benning, GA. The proposed system will be provided for temporary use to the Army at no cost by Booz Allen E.S. and its vendor partners in order to demonstrate the usefulness of this technology for defense, national security, and emergency preparedness applications in a structured experimental setting. The proposed system will not be used for mission critical or safety of life communications.

The frequency ranges involved, 758-768 MHz and 788-798 MHz are licensed on a nationwide basis to the First Responder Network Authority. We understand that concurrence from FirstNet will be required to obtain this authorization.

The system will be used by AEWE exercise participants for voice, video, image, and data communications related to exercise operations and will not carry mission-critical or safety of life communications. It will provide the Army and other government agencies with an opportunity to use new LTE broadband technology in a controlled

operational setting involving military personnel and is relevant not only to military defense missions, but also to homeland security and disaster response operations within the United States. Information from the use of LTE in the exercise will be shared with FirstNet and other interested parties, including the propagation performance of the 700 MHz band in the challenging pine forest environment.

As such, we believe that granting this STA is in the public interest.

Booz Allen Hamilton Engineering Services, LLC, has thoroughly searched the FCC ULS database and has found no co-channel licensees within 50 km of the proposed test location. We have also established contact with the Georgia State Patrol via the Georgia Technology Authority and they have confirmed that they have no operations which would be affected by the grant of this STA.

The technical demonstration will consist of a single-sector fixed LTE from vendor Lemko, Inc., along with the latest Public-Safety LTE handheld and vehicular user equipment from vendor Motorola Solutions. A fixed macrocell and user devices operating in this band has been previously licensed under Special Temporary Authorization WG9XZF. **This new request is to provide Special Temporary Authorization to operate additional deployable temporary fixed LTE macrocells to provide fill-in coverage in areas where coverage testing has shown that the macrocell alone will not be sufficient.**

Booz Allen Hamilton Engineering Services, LLC understands that operation under this STA would be for a temporary time period of under six months duration, is non-renewable, and that no other rights to this spectrum are conferred through the granting of the STA. Should testing be required after expiration of the STA, a new application would need to be filed. It is also understood that all operations under this STA are secondary to use by FirstNet and that the test will be terminated should FirstNet, the FCC, the Army, or any other licensed user report harmful interference. This request and operation has been shared with the U.S. Army and DoD IRAC representatives and Ft. Benning base spectrum office, and operation of the system will be coordinated with the base spectrum officer at Ft. Benning. All operations related to the STA will occur within or immediately adjacent to the confines of Ft. Benning. Booz Allen E.S. will maintain control of the system.

Request for Special Temporary Authority  
August 23, 2013  
Page 3

Sincerely,

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Booz Allen Hamilton  
Engineering Services, LLC