

First Responder Network Authority
c/o National Telecommunications and Information Administration
United States Department of Commerce
1401 Constitution Avenue, N.W., Suite 4898
Washington, D.C. 20230

July 25, 2013

Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, SW
Room TWA325
Washington, DC 20554

Re: Application of Raytheon Company Network Centric Systems for an Experimental License, File No. 0331-EX-PL-2013

Dear Ms. Dortch:

The First Responder Network Authority ("FirstNet") consents to the application of Raytheon Company Network Centric Systems ("Raytheon") for an experimental license to test and demonstrate Long Term Evolution (LTE) network equipment capabilities for first responders in Los Angeles, California using the 758-768/788-798 MHz band for a one-year period. In collaboration with the University of California, Los Angeles (UCLA). Raytheon proposes to test multiple vendors' equipment, with the understanding that the equipment will conform to the power limits, radius of operations and limited number of user devices reflected in its application.

Raytheon states that this experimental license will permit Raytheon and UCLA to assist Southern California public safety agencies by furnishing a local demonstration venue, allowing local participation in LTE development, and providing feedback to manufacturers on equipment and network optimization. Raytheon requests authorization from August 1, 2013 to July 31, 2014.

Raytheon states that a previous special temporary authority at this location expired in May 2012. It now seeks to expand the scope of testing to include multiple vendors.

FirstNet's concurrence is premised on the following parameters:

- 1) An LTE base station will be located at the Raytheon Public Safety Regional Technology Center ("RTC") in Downey, California, transmitting within a 2 km radius, and involving no more than 30 user devices. Throughout the term of this license, regardless of the vendor being tested, the power limits, radius of operations and number of user devices will not exceed those stipulated in the application.
- 2) Raytheon requests authority from the FCC to operate over the 758-768/788-798 MHz bands, which are currently licensed on a nationwide basis to FirstNet.
- 3) Operation will begin when the Commission grants the requested license and will continue for no longer than one year.
- 4) Raytheon has analyzed information in the FCC's license databases and states that the proposed operation would not interfere or create a significant potential for harmful interference with any public safety operations in the 700 MHz band. The Los Angeles Regional Interoperable Communications System (LA-RICS) which has executed a lease agreement for early deployment of a public safety broadband network using FirstNet frequencies, has consented to this experimental license.

- 5) Operation of the experiment will not be used in mission-critical operations or in the delivery of live transmissions in duties to protect life, property, or safety. Operations will be confined to a 2 km radius of the base station site listed in the application.
- 6) Raytheon has provided an overall project manager and in case of interference issues, "stop-buzzer" contact for these experiments: Daniel De Sollar, (w) 562-803-1094; (c) 714-213-0448; ddesollar@raytheon.com
- 7) Raytheon understands that an experimental license only permits shared use of the subject radio frequencies and that it may have to coordinate with other entities licensed for experimental purposes. Raytheon further understands that a separate concurrence from FirstNet will be required for renewal of this license.
- 8) All experimental operations by Raytheon will be secondary, meaning that they must not cause interference to narrowband or broadband operations authorized on a primary basis, including in the spectrum licensed to FirstNet. Narrowband or broadband operations authorized on a primary basis, including in the spectrum licensed to FirstNet, have no obligation to mitigate any interference that such primary operations may present to the Raytheon experimental operations.
- 9) FirstNet has not yet deployed in the geographic area covered by this application. Raytheon understands that if, during the term of this license, FirstNet or its assigns or lessees, plan to deploy in this area, Raytheon may have to reduce the coverage or power levels of its experimental transmissions or cease them entirely.

FirstNet concurs with the proposed experimental license for Raytheon on certain frequencies currently licensed to FirstNet for purposes of testing broadband LTE equipment for public safety applications. This consent is subject to the FirstNet's ongoing ability to monitor any operations and use of FirstNet's licensed spectrum.

Respectfully submitted,



Susan G. Swenson
Board Member
First Responder Network Authority

cc: Genaro Fullano, Associate Chief
Public Safety and Homeland Security Bureau
Daniel C. De Sollar, Director
Raytheon Public Safety Regional Technology Center
Greg Noneman, Senior Systems Engineer
Raytheon Network Centric Systems
Michael McMenamin