



December 19, 2013

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

**Re: Application of Nokia Solutions and Networks US LLC Networks for Renewal of an Experimental License, File No. 0405-EX-RR-2013, Call Sign WG2XII**

Dear Ms. Dortch:

The First Responder Network Authority ("FirstNet") consents to the application of Nokia Solutions and Networks US LLC ("NSN") for a renewed experimental license to continue to develop innovative Long Term Evolution (LTE) equipment for "small cell" solutions using the 758-768/788-798 MHz band. NSN states that FirstNet can leverage this experimentation in providing coverage to "urban canyons" and other hard-to-reach areas, in adding capacity in "hot zone" areas, and in managing communications through shifting traffic patterns. NSN explains that this renewal will permit a new phase of its research and design work building upon previous efforts. NSN thus requests an experimental license through December 31, 2014.

FirstNet's concurrence is premised on the temporary operations that conform to the following parameters:

- 1) LTE base stations will be located at four sites in and around NSN offices in South Arlington Heights and Palatine, Illinois. In addition, NSN would deploy up to 12 LTE low power "pico-sites" within one kilometer of each site and up to 20 portable devices within ten kilometers of each base station.
- 2) NSN 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 December 31, 2014.
- 4) NSN 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 Illinois State Police, which use a portion of the subject frequencies for narrowband operations under a previous band plan, have concurred in NSN's proposed renewal.

- 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 10 kilometer radius of the four base station sites listed in the application.
- 6) NSN has provided an overall project manager and in case of interference issues, "stop-buzzer" contact for these experiments: Javier Lopez, Project Manager, 847-668-4384; [Javier.Lopez@nsn.com](mailto:Javier.Lopez@nsn.com).
- 7) NSN 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. NSN further understands that a separate concurrence from FirstNet will be required for renewal of this license.
- 8) All experimental operations by NSN 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 NSN experimental operations.
- 9) FirstNet has not yet deployed in the geographic area covered by this application. NSN understands that if, during the term of this license, FirstNet or its assigns or lessees, plans to deploy in this area, NSN 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 NSN on certain frequencies currently licensed to FirstNet for purposes of testing innovative "small cell" solutions for LTE equipment. This consent is subject to the FirstNet's ongoing ability to monitor any operations and use of FirstNet's licensed spectrum.

Respectfully submitted,



TJ Kennedy  
Deputy General Manager  
First Responder Network Authority

cc: Erika Olsen, Special Counsel  
Public Safety and Homeland Security Bureau  
Javier Lopez, NSN Project Manager  
Kurt De Soto, Esq., Wiley Rein LLP  
Derek Khlopin, NSN Head of Government Relations