

NARRATIVE STATEMENT

Pursuant to Section 5.3(d) and (f) and Section 5.53 of the Commission's rules, 47 C.F.R. §§ 5.3(d), (f), 5.53 (2010), Nokia Siemens Networks US LLC ("NSN") hereby respectfully requests a two-year experimental license, beginning **July 1, 2011**, to operate in the 758-763/788-793 MHz band for the purpose of conducting tests in connection with the development of Long Term Evolution ("LTE") equipment. The tests will be conducted from sites at and near the offices of NSN in Arlington Heights, Illinois, as identified below.

The following information is provided in support of this application:

A. Purpose of Operation and Need for License:

NSN is a leading manufacturer of mobile broadband radio equipment, and the grant of the application will allow NSN to test and demonstrate prototype equipment to enhance the company's efforts to design and develop its equipment to meet the communications needs of potential users.

B. Location of Proposed Operation:

NSN proposes to conduct the proposed tests using fixed base station transmitters and antennas located in and around its offices in Arlington Heights, Illinois, a limited number of lower height pico sites and associated mobiles and portables. The addresses and approximate coordinates (in Datum: NAD83) of the base station sites are:

Offices of NSN 1441 W Shure Drive Arlington Heights, IL 60004 42° 08' 08" North Latitude 87° 59' 56" West Longitude	Boeger Tower 129 Boeger Road Arlington Heights, IL 60004 42° 08' 14" North Latitude 87° 58' 57" West Longitude
Syverson Tower 2301 Rand Road Palatine, IL 60038 42° 09' 12" North Latitude 88° 02' 11" West Longitude	Downtown Arlington Heights 105 Northwest Highway Arlington Heights, IL 60014 42° 05' 04" North Latitude 87° 58' 53" West Longitude

C. Technical Specifications:

1. Frequencies Desired

NSN requests authorization to operate in the band 758-763/788-793 MHz band known as the upper 700 MHz D block, which has not yet been licensed for regular operation.

2. Effective Radiated Power

All power levels will comply with the limits set forth in the FCC's rules, including those relating to human exposure to radiation.

The mobile/portable units to be deployed are configured to operate at an average power level of 250 mW effective radiated power ("ERP") and a peak power level of 2.5 Watts ERP. The base station will be configured to operate at a peak power level of less than 125 Watts ERP. The pico sites will operate at a power level between 2 and 5 Watts ERP. NSN will vary the actual powers within the maximums noted above to test coverage results.

In addition, NSN will evaluate environmental considerations to ensure compliance with Section 1.1306 of the FCC's rules, 47 C.F.R. § 1.1306 (2010), and, in particular, the human exposure requirements set forth in FCC OET Bulletin No. 65.

3. Modulation and Emissions

NSN proposes to operate using OFDM modulation. The primary emission designators are 5M0G7D, 5M0W7W, 5M0G2D, 5M0D7D, 10M0G7D, 10M0W7W, 10M0G2D, and 10M0D7D. Other emission modes may be utilized, but in no event will the emissions extend beyond the frequency bands requested.

4. Antenna Information

The fixed base station transmitter antenna will be located outdoors at the sites specified above. The antenna elevation above ground level will not exceed 45 meter. The antennas for pico sites will be installed at a height not greater than 7 meters above ground when used outdoors. The mobile and portable units for most part will be hand held. In case of rack mounting, subscriber units will be not be installed at heights over 3 meters. No antennas will be mounted in a fashion that will require approval under FAA and FCC rules and regulations.

5. Equipment To Be Used

NSN will conduct its demonstrations at each of sites listed above with a single base station, up to twelve pico sites within one kilometer of each site, and up to twenty mobile/portable units within ten kilometer radius of each site. Moreover, NSN will limit the power, area of operation, and transmitting times to the minimum necessary to evaluate the equipment.

D. Protection Against Causing Interference:

As noted above, NSN has requested authority to operate in the 758-763/788-793 MHz band known as the upper 700 MHz D block. NSN will coordinate with any licensees, as required by FCC rules, before commencing operations.

NSN also recognizes that the operation of any equipment under experimental authority must not cause harmful interference to authorized facilities, including the facilities of other experimental licensees in this band. Should interference occur, NSN will take immediate steps to resolve the interference, including if necessary arranging for the discontinuance of operation.

E. Restrictions on Operation:

NSN is not seeking authority to perform a market study under this experimental license. Moreover, no fees will be charged to entities using the equipment during this test. After the test is completed, NSN will recall and recover all devices that do not comply with FCC regulations.

In addition, NSN will advise entities using the equipment that permission to operate has been granted under experimental authority issued to Nokia Siemens Networks USA LLC, that such operation is strictly temporary, and that the equipment may not cause harmful interference. Entities will also be advised in accordance with Section 2.803 of the Commission's rules, 47 C.F.R. §2.803 (2010), that any unapproved devices have not been authorized as required by the rules of the FCC and are not being offered for sale or lease, or sold or leased, until authorization is obtained.

F. Public Interest Statement:

NSN submits that issuance of an experimental license as requested is in the public interest, convenience, and necessity. Grant of the license will permit NSN to develop innovative equipment that will accommodate the communications needs of users

G. Contact Information:

For questions about this application, or in the unlikely event interference concerns should arise during the period of authorization, please contact:

Prempal Singh
Operations Manager New Product Introduction
Nokia Siemens Networks US LLC
1501 W Shure Drive
Arlington Heights, IL 60004
Telephone: (847) 722-7683
Prempal.singh@nsn.com