

Nokia Siemens Networks US, LLC
Request for Modification of
Experimental License WC2XLI
OET File No. 0072-EX-ML-2012

NARRATIVE STATEMENT

Pursuant to Section 5.3(d), (f) and (g) and Section 5.51 of the Commission's rules, 47 C.F.R. § 5.3(d), (f), (g) and § 5.51 (2010), Nokia Siemens Networks US, LLC ("NSN"), hereby respectfully requests a modification of its license issued under call sign WC2XLI so that it may conduct additional tests and demonstrations of prototype broadband devices at its site in Arlington Heights, Illinois, for operation in the 824-849/869-894 MHz, 1710-1755/2110-2155 MHz and 1850-1915/1930-1995 MHz bands. In addition, the application corrects the coordinates for its site at Arlington Heights, revises the primary emission designator associated with the test, and reduces the power levels of its proposed operations. Last, NSN deletes the other sites on the license that are not needed at this time.

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

A. Purpose of Operation and Need for Modification:

NSN is a leading manufacturer of mobile radio equipment and is continually engaged in the design and development of new and innovative communications equipment. The experimental authority requested herein will allow the company to demonstrate and validate the functionality of prototype devices designed to support the communications needs of users.

Specifically, NSN proposes to conduct additional tests and demonstrations of prototype equipment in the area of Arlington Heights, Illinois. Grant of the modification will allow NSN obtain feedback so that it may enhance the company's efforts to design, develop and improve its equipment to meet the communications needs of potential users.

B. Location of Proposed Operation:

NSN proposes to conduct its tests and demonstrations using up to five base station transmitters in each of the three frequency bands referenced above. These transmitters will be located within 0.5 km of the location identified below, communicating with mobile/portable units operating within a radius of not more than 0.5 km from the base stations.

1455 West Shure Drive
Arlington Heights, IL 60004
42° 08' 01" North Latitude
87° 59' 52" West Longitude
Datum: NAD83

C. Technical Specifications:

1. Frequencies Desired

NSN seeks modification of its authorization to operate in the bands 824-849/869-894 MHz, 1710-1755/2110-2155 MHz and 1850-1915/1930-1995 MHz. NSN will coordinate its activities with existing licensees in the area.

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 a peak power level of 4 Watts effective radiated power ("ERP"). The base stations will be configured to operate at a peak power level of 10 Watts ERP. NSN will reduce the actual powers to the minimum power needed for successful operation.

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 primarily using OFDM modulation, but may use other techniques as well. The primary emission designator is 20M0W7W. Other emission modes may be utilized, but in no event will the emissions extend beyond the frequency bands requested.

4. Antenna Information

No antennas will be mounted in a fashion that will require approval under FAA and FCC rules and regulations. The base station transmitter antennas located outside the facilities will not be greater than 20 feet above the ground or a building. Outside mobile/portable antennas will not, under any circumstances, extend more than 6 meters above ground or a building. Mobile/portable antennas inside NSN's facilities will be located as required for a successful demonstration and validation.

5. Equipment To Be Used

NSN expects that it will be able to conduct its tests and demonstrations with five base units deployed in each of the three frequency bands specified above and up to 75 mobile/portable units per frequency band. Thus, the maximum number of units to be deployed under the authority requested in this application will be 15 base station units operating at a peak power level of 10 Watts ERP and 225 mobile/portable units operating at a power level of 4 Watts ERP. Moreover, NSN will limit the power, area of operation, and transmitting times to the minimum necessary to evaluate the equipment.

D. Protection Against Interference:

As noted above, NSN will coordinate its activities with existing licensees in the area. It recognizes that the operation of any equipment under experimental authority must not cause harmful interference to authorized facilities. Should interference occur, NSN will take immediate steps to resolve the interference, including if necessary arranging for the discontinuance of operation.

In addition, NSN will advise entities using the equipment that permission to operate has been granted under experimental authority issued to NSN, 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.

E. Public Interest:

NSN submits that issuance of an authorization as modified is in the public interest, convenience, and necessity. Grant of a modified authorization will help NSN to develop innovative equipment that will accommodate the communications needs of users.

F. Contact Information:

For questions about this application, please contact:

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In the unlikely event interference concerns should arise during the period of authorization, please contact:

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