

NARRATIVE STATEMENT

Pursuant to Section 5.61 of the Commission's rules, 47 C.F.R. §5.61 (2004), **Nokia Siemens Networks** hereby respectfully requests special temporary authority ("STA") to conduct interoperability testing of its 1.7/1.9/2.1 GHz UMTS/GSM handsets and 2G-3G core network equipment.

In support of this request, the following is shown:

1) **Applicant's Name, Address, and FCC Registration Number ("FRN"):**

NokiaSiemens Networks
1401 K ST. NW Suite 450
Washington, DC 20005
FRN: 0006077051

2) **Need for Special Temporary Authority/Experimental License:**

NSN needs access to AWS spectrum to conduct interoperability testing of its 1.7/1.9/2.1 GHz UMTS/GSM handsets and 2G-3G core network equipment. Testing will also include the transmission of voice, video, and data using UMTS technology and equipment for Advanced Wireless Services (AWS).

3) **Description of Operation and Purpose of Test:**

The additional AWS UMTS overlay needs to be integrated with the existing T-Mobile PCS GSM wireless network. The operational testing will include end to end statistical and drive test verification of all aspects of both T-Mobile networks

4) **Dates of Operation:**

August 20, 2007 through February 19, 2008

5) **Class of Station:**

XD FXMO
Fixed and mobile operations within a 5km radius centered at:
30.156300N and -95.465900W

6) **Location(s) of Proposed Operations:**

Site #	Address	City	State	zip	lat	lon
A3B0205B	Borough Park Drive The Woodlands	The Woodlands	TX	77380	30.1286	-95.445
A3F0013A	2630A Sawdust Rd.	The Woodlands	TX	77380	30.1353	-95.479
A3B0038A	26406 Glenloch Dr.	The Woodlands	TX	77380	30.1485	-95.489
A3B0201A	129-H Lane St	Oak Ridge North	TX	77380	30.1552	-95.447
A3B0332A	630 Pinewood Dr	Conroe	TX	77385	30.1683	-95.43
A3B0206A	1090 Lake Front Circle	The Woodlands	TX	77078	30.1715	-95.455
A3B0023A	7400A Forest Lane	The Woodlands	TX	77385	30.1885	-95.437
A3B0203A	25117 Gosling Rd.	Spring	TX	77389	30.1322	-95.506

7) **Equipment to Be Used:**

Nokia Flexi WCDMA base station. Will include 1 transmitter per sector, each site location will contain three sectors. Handset will consist of the Samsung SGH-T639 or similar UMTS/GSM handsets.

8) **Frequencies Desired:**

AWS A1 block: 2110 – 2115 MHz and 1710 – 1715 MHz
Both 2.1 GHz and 1.7GHz spectrum use are compliant with 47 CFR 27.53(g)

9) **Power Levels:**

For 2.1 GHz the maximum transmit power is 40 W per sector. Peak ERP for each sector is 794 W.

For 1.7 GHz the maximum transmit power is 0.234 W per mobile handset. Peak ERP for each mobile handset is 0.250 W.

10) **Type of Emission, Modulation Technique, and Bandwidth Required:**

UMTS WCDMA air interface will be utilized with the modulation scheme of QPSK.
The bandwidth is 5MHz.

Emission Designator is 5MOOF9W

11) **Overall Height of Antenna(s) Above Ground:**

Existing wireless communication facilities will be utilized; FAA approvals have already been obtained. The average height for the antennas at the locations in item #6 above is 174 feet.

12) **Other Matters:**

NSN agrees to the following special conditions:

Operations are subject to prior coordination with local point-to-point microwave, Advanced Wireless Services (AWS), and TV pickup licensees.

Licensee will contact, by email, the local Broadcast Auxiliary Services (BAS) frequency coordinator shown on the list of BAS frequency coordinators posted on the SBE website (www.sbe.org) prior to operation.

Licensee will ensure that a “hot line” telephone number is available, and staffed, for all periods when experimental operations are taking place. The person at this hot line number will have the capability to suspend the experimental operations in real-time, in the event that a TV BAS licensee reports harmful interference to its operations.

The stop buzzer cell phone number provided by NSN are available 24/7 if operations need to be shut down.

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13) **Contact Information:**

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