

NOKIA

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May 23, 2000

FEDERAL COMMUNICATIONS COMMISSION
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320

**RE: Application for Special Temporary Authority to Operate a
Station in the Experimental Radio Service**

I, Leo R. Fitzsimon, hereby certify that I am a duly authorized employee of Nokia Inc. ("Nokia"). Pursuant to §§ 5.3(f) and 5.61(c) of the Rules of the Federal Communications Commission ("Commission"), Nokia hereby requests Special Temporary Authority ("STA") to operate facilities in the experimental radio service. In support of this request, Nokia submits the following information:

Need for STA

Nokia requires this STA to demonstrate its newly developed TETRA system for two-way radio communication at a convention of the Association of Public-Safety Communications Officials, International ("APCO"). The short temporary use requested herein is for a maximum of one week and is intended solely for the purpose of demonstrating system capabilities.

Description and Purpose of Operation

Nokia intends to operate a small, low-power example of its TETRA two-way radio system in and around the Hynes Convention Center, 900 Boylston Street, Boston, Massachusetts. The purpose of this operation is to demonstrate the capabilities of Nokia's TETRA system to representatives of local, state and federal public safety agencies.

Time and Dates of Operation

Nokia proposes operation of its experimental system over a seven-day period between August 12 and 19, 2000.

Classes of Station

Nokia proposes a small working system consisting of a switch, base station, dispatch PC, and a maximum of 7 mobile radios and 10 handheld portable radios.

Description of Location

Nokia proposes to operate its experimental system in and around the Hynes Convention Center located at 900 Boylston Street, Boston, Massachusetts. The geographic coordinates are 42-20-53 N. Lat., 71-05-03 W. Long.

Equipment to be Used

Nokia proposes to demonstrate the following TETRA equipment of its own manufacture: DXT64 Digital TETRA Exchange (2 racks), TBS TETRA Base Stations (2 pcs), DWS Dispatcher Work Station (1 pc), TTHR420 Handheld TETRA radio (5 pcs), THR600 Handheld TETRA radio (5 pcs), TMR400 Mobile TETRA radio (2 pcs), and TMR420 Mobile TETRA radio (5 pcs).

Frequencies Desired

Pursuant to Section 5.87 of the Commission's rules, 47 C.F.R. § 5.87, Nokia requests two pairs of 25 kHz channels with 10 MHz channel spacing in either the 380-410 MHz or the 410-430 MHz band as follows: base station transmit frequencies in either the 390-395 MHz band paired with mobile/handheld transmit frequencies (base station receive frequencies) in the 380-385 MHz band; or base station transmit frequencies in the 420-425 MHz band, paired with base station receive frequencies in the 410-415 MHz band. Nokia recognizes that the frequencies requested are allocated for Federal Government use. Nokia is prepared to ensure that the proposed operation will pose no threat of harmful interference to any government operations in these bands.

In addition, Nokia notes that under Section 5.85(b), 47 C.F.R. § 5.85(b), no more than one frequency in a band will normally be assigned for the use of a single applicant unless a showing is made demonstrating the need for additional frequencies. In this instance, the two pairs of 25 kHz channels are essential to Nokia's program of experimentation in order to simultaneously demonstrate both mobile and handheld portable examples of Nokia's TETRA equipment.

Maximum Power and Emission Designation

The TETRA equipment proposed for the experimental operation will have a maximum power of 25W (44 dBm) ERP. The emission designator of 25K0M7W.

Antenna Height

The proposed experimental base station antenna will be located less than 6 meters above an existing building and shielded by permanent existing structures located in the congested area of downtown Boston, Massachusetts.

Anti-Drug Abuse Certification

The applicant hereby certifies that neither it, its officers and directors, nor any party with a five percent or greater interest in this request for special temporary authority has been convicted of offenses consisting of the distribution or possession of controlled substance as such terms are defined in Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.

Supplementary Statement

The Nokia digital trunked radio system to be demonstrated has been designed to provide efficient use of radio frequencies, high speed data transfer, security of critical information, flexibility, and increased value for investment, without sacrificing the ease-of-use of the current conventional systems. Digital trunking is fast emerging as the leading professional mobile radio technology, bringing with it the advantages of in-built encryption, high speed data, spectrum efficiency and scanning features, all well suited to public safety needs.

Any questions regarding this application may be directed to Nokia's outside counsel, David R. Siddall, at (202) 371-6326.

Respectfully Submitted,



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