

United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL  
(Nature of Service)

WA2XFN  
(Call Sign)

XD FX MO  
(Class of station)

S-3161-EX-98  
(File number)

NAME NOKIA, INC.

at CTIA Trade Show; Georgia World Congress Center; Atlanta, GA  
(Location of station)

Special Temporary Authority is hereby granted to operate the radio transmitting apparatus described below:

| Frequency (MHz) | Authorized Power (watts) | Emission Designator | Class |
|-----------------|--------------------------|---------------------|-------|
| 1890 - 1891     | 0.0025 (ERP)             | 200KG7W             | MO    |
| 1970 - 1971     | 0.0025 (ERP)             | 200KG7W             | FX    |

Purpose of Operation: Test and demonstration of Nokia Flexitalk 1900.

Special Condition: Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.

This special temporary authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This special temporary authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control by the Government of the United States conferred by Section 706 of the Communications Act of 1934.

This authorization effective February 20, 1998 and will expire 3:00 A.M. EST. February 27, 1998



S-3161-EX-98

# NOKIA

CONNECTING PEOPLE

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1850 K St. NW, Suite 1175, Washington, D.C. 20006

PH: 202.887.0145 FX: 202.887.0432

January 9, 1998

Federal Communications Commission  
Common Carrier Land Mobile  
P.O. Box 358130  
Pittsburgh, PA 15251-5130

Dear Sir/Madame:

In accordance with Section 5.56 of the Commission's Rules, we request special temporary authority ("STA") to operate a radio facility for the purpose noted below.

The Fee Code for this application is EAE. An authorization of a credit card payment of \$45 and Form 159 are enclosed.

In support of this request, the following is shown:

1. Nokia Telecommunications Inc.  
7 Village Cr., Westlake, TX 76262

Attention: Bill Plummer  
Tel. No.: 202/887-1798

2. Need for Special Action  
The STA is requested in order to demonstrate to industry officials an advanced wireless PCS 1900 system at the CTIA trade show in the Georgia World Congress Center in Atlanta, Georgia on February 20-26, 1998.
3. Type of Operation  
Network system will consist of a low power base station (2.5 mW) operating within the CTIA Convention - Georgia World Congress Center. The base station will communicate with 2.5 mW portable radios, again, within the Georgia World Congress Center.

4. Purpose of Operation

The GSM system will be used for marketing and demonstration of its capabilities to industry representatives and consumers.

5. Dates of Operation

The demonstrations are planned to commence February 20, 1998 and be completed by February 26, 1998.

6. Class of Station/Radio Service

**Class of Station/Radio Service**

FBBS (Base)/Common Carrier Land Mobile (CD)

7. Location of Proposed Operation

| Site                                                                                   | Geographical Coordinates:                    |
|----------------------------------------------------------------------------------------|----------------------------------------------|
| Georgia World Congress Center<br>285 International Blvd., NW<br>Atlanta, GA 30313-1519 | Latitude: 33.758201<br>Longitude: -84.396350 |

8. Equipment to be Used

The equipment to be used consists of Nokia's Flexitalk 1900 base station and a maximum of (20) companion portable transceivers.

9. No. TX's & Frequencies Desired

**Frequencies desired**

1850 - 1910 MHz (uplink) from MS to BTS  
1930 - 1990 Mhz (downlink) from BTS to MS

*amended to block "F" (lic'd)*

*> lic'd*

*1890-91  
1970-71*

10. Radiated Power

The maximum radiated power (EIRP) will not exceed limit of 2.5mW..

11. Type of Emission

The emission is according to PCS/GSM 1900 specifications.

12. Overall Height of Antenna and

Less than six meters

13. Eligibility

The applicant manufacturers equipment for cellular and PCS systems and subscribers.

14. 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 offences 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.

If there are any questions about this application, please contact the undersigned.

Thank you for your prompt attention to this request.

Respectfully,

A handwritten signature in black ink, appearing to read 'Bill Plummer', with a large, stylized flourish extending to the right.

Bill Plummer  
Director, Government and Industry Affairs  
Nokia, Inc.



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1850 K St. NW, Suite 1175, Washington, D.C. 20006  
PH: 202.887.0145 FX: 202.887.0432

January 9, 1998

Federal Communications Commission  
Common Carrier Land Mobile  
P.O. Box 358130  
Pittsburgh, PA 15251-5130

Dear Sir/Madame:

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The Fee Code for this application is EAE. An authorization of a credit card payment of \$45 and Form 159 are enclosed.

In support of this request, the following is shown:

1. Nokia Telecommunications Inc.  
7 Village Cr., Westlake, TX 76262

Attention: Bill Plummer  
Tel. No.: 202/887-1798

2. Need for Special Action  
The STA is requested in order to demonstrate to industry officials an advanced wireless PCS 1900 system at the CTIA trade show in the Georgia World Congress Center in Atlanta, Georgia on February 20-26, 1998.
3. Type of Operation  
Temporary in-building PCS operation utilizing TDMA/GSM 1900 technology. Network system will consist of a low power base station (2.5 mW) operating within the CTIA Convention - Georgia World Congress Center. The base station will communicate with 2.5 mW portable radios, again, within the Georgia World Congress Center.

*Amendment*

4. Purpose of Operation

The GSM system will be used for marketing and demonstration of its capabilities to industry representatives and consumers.

5. Dates of Operation

The demonstrations are planned to commence February 20, 1998 and be completed by February 26, 1998.

6. Class of Station/Radio Service

**Class of Station/Radio Service**

FBBS (Base)/Common Carrier Land Mobile (CD)

7. Location of Proposed Operation

| Site                                                                                   | Geographical Coordinates:                               |
|----------------------------------------------------------------------------------------|---------------------------------------------------------|
| Georgia World Congress Center<br>285 International Blvd., NW<br>Atlanta, GA 30313-1519 | Latitude (N): 33-45-29.5<br>Longitude (W): -84.-23-46.9 |

8. Equipment to be Used

The equipment to be used consists of Nokia's Flexitalk 1900 base station and a maximum of (20) companion portable transceivers.

9. No. TX's & Frequencies Desired

| Freq # | Frequencies (MHz)<br>Base/Mobile | AMSL(m) | EIRP(dBm) | Bandwidth |
|--------|----------------------------------|---------|-----------|-----------|
| "F"    | 1970.00 - 1971.00 ↓              | 308     | 28        | 200 kHz   |
| "F"    | 1890.00 - 1891.00 ↑              |         | 28        | 200 kHz   |

*631 mW*  
*4*  
*2*

*Dir Antenna off  
granted to:  
BFA6  
Transmit  
at 1000*

10. Radiated Power

The maximum radiated power (EIRP) will not exceed limit of 2.5mW

11. Type of Emission

The emission is according to PCS/GSM 1900 specifications.

12. Overall Height of Antenna and

Less than six meters



1850 K St., N.W. Suite 1175  
Washington, D.C. 20006

# FACSIMILE COVER

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01/22/98 3:42 PM

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To: Carl Huie

FROM: Claudia Cheek

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PHONE: 202-418-2430

PHONE: 202-887-0145

FAX: 202-418-1918

FAX: 202-887-0432

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NUMBER OF PAGES FOLLOWING: *Three*

**REGARDING:**

Please review our STA ammendment for Nokia's temporary in-building PCS operation for the CTIA Wireless 98 show.

Bill Plummer can be reached directly at 202-887-0570.

Thank you.

13. Eligibility

The applicant manufacturers equipment for cellular and PCS systems and subscribers.

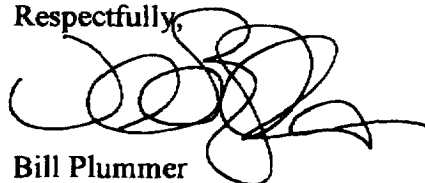
14. Anti-Drug Abuse Certification

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 offences 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.

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Bill Plummer  
Director, Government and Industry Affairs  
Nokia, Inc.



FACSIMILE MESSAGE

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**FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF ENGINEERING AND TECHNOLOGY**

2000 M STREET, N.W., SUITE 230  
WASHINGTON, D.C. 20554

January 23, 1998 9 13 am

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**FROM:** Carl Huie

**Telephone:** (202) 418-2430  
**Fax #:** (202) 418-1918

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**TO:**

**Name:** Bill Plummer  
**Organization:** NOKIA TELECOMMUNICATIONS, INC.  
**Telephone:** (202) 887-0145 x  
**Fax #:** (202) 887-0432

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This cover sheet is page 1 of 2 pages

**COMMENTS:**

Authorization in mail.