

2221 Lakeside Blvd., Richardson, TX 75082
United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL
(Nature of Service)

K O 2 X E U
(Call Sign)

XD MO
(Class of station)

S-1719-EX-94
(File number)

NAME BNR INC./NORTHERN TELECOM

Vicinity of Aladdin Hotel, Las Vegas, NV
(Location of station)

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

Frequency MHz	Authorized Power (watts)	Emission Designator
824-849	600 milliwatts	40K0F3E/F7D
869-894	1 (output)	40K0F3E/F7D

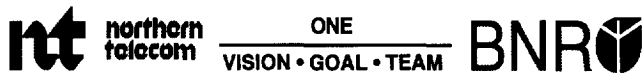
This special temporary authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the 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 November 8, 1994 and
will expire 3:00 A.M. EST. November 13, 1994



S-1719-EX-94 ✓



October 6, 1994

Mr. H. Franklin Wright
Frequency Liaison Branch Chief
Federal Communications Commission
2025 M Street
Washington, DC 20554

Subject: Special Temporary Authorization
Microcell Product Demonstration
CelluComm '94 Northern Telecom Booth

824-849 40K F3E/F TD
600mw
869-894 1w

Dear Mr. Wright:

BNR INC./Northern Telecom hereby requests special temporary authorization to demonstrate our Microcell product at CelluComm '94. CelluComm will be held Thursday through Saturday, **November 10-12, 1994**, at the Aladdin Hotel, 3667 Las Vegas Blvd., South, Las Vegas, NV 89109, (800) 782-5267. The Aladdin's latitude is 36° 6' 31" North, and longitude is 115° 10' 20" West.

CelluComm is targeted at strategic, technological and marketing issues surrounding the growing cellular data market. Northern Telecom's booth demonstration will include sending data between terminals and possible voice traffic with the use of the Northern Telecom Microcell. The demonstration scenario involves sending vending machine data over the microcell to the "home office." Vending machine data includes inventory status, inventory alarms, vendor performance alarms, and change collected since the last visit. The purpose of this demonstration is to reveal to the customer the ability of a microcell to transmit and receive data through a Cellular Digital Packet Data (CDPD) modem, as well as communicating the different areas a microcell can be applied. The demonstration will be completed in the Aladdin's Imperial Ballroom.

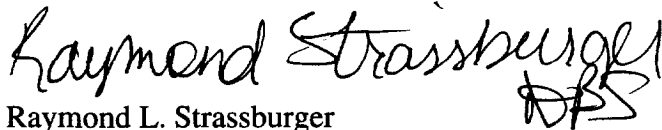
Attached is a letter stating that Sprint will support the channel allocation for CelluComm. They have allocated the following channels on **Tuesday, November 8th to Saturday, November 12th**: 413, 427, 434, 448. The four frequencies licensed by the "B" cellular provider will allow the customer to view the Microcell/CDPD capabilities. It is important that the use of frequencies in the cellular band avoid co-channel and adjacent channel interference. RF output will be less than 50 milliwatts, broadcasting CDPD traffic on two channels, and TDMA voice traffic on the remaining channels. A special temporary authorization is needed because BNR INC's. current Experimental Radio License for Microcell Testing and Demonstration (Call sign: KO2XEU, File number: 3545-EX-PL-93) does not include the above latitude and longitude coordinates, nor does it cover a five day period.

The Microcell demonstration equipment consists of one Northern Telecom Microcell Base Station, hand-held mobile phones, a Casio Personal Digital Assistant, an IBM ThinkPad, and a Compaq Laptop Elite, a vending machine (Coke), and a Cincinnati

Microwave CDPD Modem. The base station dimension's are 10"W x 20"H x 22"D, and the antenna will be mounted inside on the wall approximately 15' from the ground.

Please call me at (202) 508-3605 in the event that you have any questions concerning this application. If you wish to reach me by FAX, the number is (202) 508-3612. A money order, in the amount of \$45.00, has been sent by express mail to The Mellon Bank, 3 Mellon Bank Center, Room 153-2713, Pittsburgh, PA., 15259, Attn: Wanda Jordan (Phone 412-234-5494).

Very truly yours,

Handwritten signature of Raymond L. Strassburger in cursive script.

Raymond L. Strassburger
Director Government Relations, Telecommunications Policy

Attached: FCC Form 159, Sprint letter

October 6, 1994

Ms. Amy Stringfellow
Northern Telecom
2435 N. Central Expwy
Pal-4
Richardson, TX 75080

Dear Ms. Stringfellow:

The following channels are available for the indoor Microcell demonstration at the CelluComm Show in Las Vegas, NV on November 8-12: 413, 427, 434, 448.

The use of these channels is subject to the appropriate FCC notifications and filings. Northern Telecom will provide to Sprint copies of authorizations prior to the demonstrations. If you require additional information, or experience problems with these RF channels, I can be reached at (800) 323-2174.

Sincerely,



Thomas Chow

Sprint
8725 W. Higgins, Suite 900
Chicago, IL 60631