

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL
(Nature of Service)

KO2XAE
(Call Sign)

XD FX,MO
(Class of station)

S-2399-EX-96
(File number)

NAME BELL COMMUNICATIONS RESEARCH, INC.

various locations in Patterson, NJ: 40-55-12N, 74-10-09W
(Location of station)

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

Frequency (MHz)	Authorized Power (watts)	Emission Designator
2400 - 2483.5	4 (ERP)	1M00G7W

In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

The station identification requirements of Section 5.152 of the Commission's Rules are waived.

Operation: Propagation research.

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 April 15, 1996 and
will expire 3:00 A.M. EST. October 15, 1996





Bell Communications Research

S-2399-EX-96

David A. Rosen
Vice President
Strategic & Business Planning

RRC-4C1106
444 Hoes Lane
Piscataway, New Jersey 08854
908-699-8989
Fax 908-336-3490
E-mail drosen@cc.bellcore.com

April 1, 1996

Federal Communications Commission
Experimental Radio Services
PO. Box 358320
Pittsburgh, PA 15251-5315

Bell Communications Research, Inc. (Bellcore) requests Special Temporary Authority (STA) to conduct experimental research and technical demonstrations in the ISM band in Paterson, NJ. Currently the frequency band 2480-2483 MHz is not authorized under our Experimental Radio License, KO2XAE. An application requesting authorization of this band was filed with the Commission on March 4, 1996.

Specific information as required by Section 5.56 is detailed below:

1. Bell Communications Research, Inc.
Attn: Mrs. K. M. Falkenthal
444 Hoes Lane, Room 1A116
Piscataway, NJ 08854

2. Special action is required to authorize the following:

Frequency	(A)	2400-2483 MHz
Power	(B)	1 watt
	(C)	36 dBm
	(D)	Mean
Emission	(E)	G7W
Modulating Signal	(F)	QPSK
Bandwidth	(G)	1 MHz

4-21-96

3. The operation to be conducted is a radio propagation research experiment.
4. The purpose of the operation is to gain further knowledge on indoor and outdoor radiowave propagation in the ISM band in Paterson, NJ area.
5. We propose to begin initial experiments April 15, 1996 and continue these initial experiments for approximately 2 years.
6. The license on which Special Temporary Authority is requested is our Experimental license KO2XAE.

7. We propose operation in the area of Paterson, NJ. The fixed transmitting antennas will be located at: 114 Paterson Street
Latitude: 40-55-12N
Longitude: 74-10-09W
Height: 89 ft AGL
8. All radio equipment used will be assembled by us from commercially available components. Presently we plan to use TADIRAN equipment. There will be 6 base stations and 30 remote stations.
9. The band requested is 2400-2483 MHz.
10. The actual RF power generated will normally be below 1 watt.
11. The emission is frequency hopping spread spectrum system with an instantaneous occupied bandwidth of 1 MHz.
12. Base station antenna types a) Omni, and b) sector 40 and 60 degrees.
Remote station antenna beamwidths ranging from 40 to 15 degrees.

A filing fee of \$45.00 is included with this request.

If you have any questions regarding this request, please contact Mrs. K. M. Falkenthal. She can be reached on 908-699-7744.

Yours truly,



David A. Rosen
Vice President
Strategic & Business Planning

FEDERAL COMMUNICATIONS COMMISSION
MELLON BANK APPLICATION RETURN FORM

Date: *April 10, 1996*

Data Preparation Center
Mellon Bank
Room 153-2718
Pittsburgh, PA 1559-001

Re: *Bell Communications
Research, Inc.*

The enclosed application(s) can be processed as filed. Please refer to the following instructions:

- Use original date stamped, and stamp all receipt copies with the same date.
- Restamp application(s) and all other documents.
- Application was sent to the wrong location, and is being forwarded for processing.
- Process application(s) in Lockbox *358300*.
- Process filing using Payment Type Code *EAE*.
- Process as overpayment.

Please contact the Billings & Collections Branch at (202) 418-1995, if you have any questions.

Sincerely,

Regina W. Dorsey
Regina W. Dorsey, Chief
Billings & Collections Branch

*wrong lockbox
(315)*

FEDERAL COMMUNICATIONS COMMISSION
MELLON BANK APPLICATION RETURN FORM

Date:

April 15, 1996

Data Preparation Center
Mellon Bank
Room 153-2718
Pittsburgh, PA 1559-001

Re: Bell Comm. Research, Inc.

The enclosed application(s) can be processed as filed. Please refer to the following instructions:

- Use original date stamped, and stamp all receipt copies with the same date.
- Restamp application(s) and all other documents.
- Application was sent to the wrong location, and is being forwarded for processing.
- Process application(s) in Lockbox 35832e.
- Process filing using Payment Type Code _____.
- Process as overpayment.

Please contact the Billings & Collections Branch at (202) 418-1995, if you have any questions.

Sincerely,

Katuro Howard
Regina W. Dorsey, Chief *for*
Billings & Collections Branch

NO Total in
Box #2

FCC REMITTANCE ADVICE

PAGE NO. 1 OF _____

(RESERVED)

SPECIAL USE
FCC/MELLON APR 04 1996

FCC/MELLON
FCC USE ONLY
FCC/MELLON APR 17 1996

(Read instructions carefully BEFORE proceeding.)

PAYOR INFORMATION

(1) FCC ACCOUNT NUMBER 04-18-96 832087 001
Did you have a number prior to this? Enter it: _____ s 45.00

(3) PAYOR NAME (If paying by credit card, enter name exactly as it appears on your card):
K FALKENTHAL

(4) STREET ADDRESS LINE NO. 1
444 HOES LANE

(5) STREET ADDRESS LINE NO. 2
Room 1A116 ATTN: K M FALKENTHAL

(6) CITY PISCATAWAY (7) STATE NJ (8) ZIP CODE 08854

(9) DAYTIME TELEPHONE NUMBER (Include area code) 908-699-7744 (10) COUNTRY CODE (if not U.S.A.)

ITEM #1 INFORMATION

(11A) NAME OF APPLICANT, LICENSEE, REGULATEE, OR DEBTOR BELL COMMUNICATIONS RESEARCH INC FCC USE ONLY

(12A) FCC CALL SIGN/OTHER ID K02XAE (13A) ZIP CODE (14A) PAYMENT TYPE CODE EAE (15A) QUANTITY 001 (16A) FEE DUE FOR PAYMENT TYPE CODE IN BLOCK 14 S 45.00

(17A) FCC CODE 1 (18A) FCC CODE 2

(19A) ADDRESS LINE NO. 1 (20A) ADDRESS LINE NO. 2 (21A) CITY/STATE OR COUNTRY CODE

ITEM #2 INFORMATION

(11B) NAME OF APPLICANT, LICENSEE, REGULATEE, OR DEBTOR FCC USE ONLY

(12B) FCC CALL SIGN/OTHER ID (13B) ZIP CODE (14B) PAYMENT TYPE CODE (15B) QUANTITY (16B) FEE DUE FOR PAYMENT TYPE CODE IN BLOCK 14 S

(17B) FCC CODE 1 (18B) FCC CODE 2

(19B) ADDRESS LINE NO. 1 (20B) ADDRESS LINE NO. 2 (21B) CITY/STATE OR COUNTRY CODE

CREDIT CARD PAYMENT INFORMATION

Bellcore

444 Hoes Lane
Room 1A116
Piscataway, NJ 08854

Fax Cover Sheet

DATE: April 2, 1996 **TIME:** 3:01 PM
TO: Carl Huie **PHONE:** 202-418-2430
Federal Communications Commission **FAX:** 202-418-1918
FROM: Kam Falkenthal **PHONE:** 908-699-7744
Bellcore **FAX:** 908-336-3490
RE: Request for STA

Number of pages including cover sheet: [3]

Message

Carl,

As discussed attached is a copy of the STA request for our license KO2XAE.
Once our VP returns from Washington, DC it will be signed and mailed to Pittsburgh along with the fee.

Please give me a call if you have any problems with this.

Thanks

FACSIMILE MESSAGE

FACSIMILE MESSAGE

FACSIMILE MESSAGE



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

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

April 3, 1996 9 49 am

FROM: Carl Huie

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

TO:

Name: Kam Falkenthal
Organization: BELLCORE
Telephone: (908) 699-7744 X
Fax #: (908) 336-3490

This cover sheet is page 1 of 2 pages

COMMENTS:

License will be mailed after receipt of original application.