

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL
(Nature of Service)

K O 2 X A E
(Call Sign)

XR MO
(Class of Station)

5257-EX-R-97
(File Number)

NAME BELL COMMUNICATIONS RESEARCH, INC.

See Below
(Location of Station)

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Frequency	Class	Emission	Authorized	Tolerance
	Stn	Designator	Power watts	(+/-)

See Attached Page 4

Station Location:

US

Area Of Operation: MOBILE: WITHIN CONTINENTAL UNITED STATES

Operation: In accordance with Sec. 5.202(a) of the Commission's Rules.

Special Conditions:

See Attached Page 2

This authorization effective December 1, 1997 and
will expire 3:00 A.M. EST December 1, 1999

FEDERAL
COMMUNICATIONS
COMMISSION



Special Conditions:

(1) Subject to coordination with the Area Frequency Coordinator located at White Sands Missile Range, New Mexico, prior to use in the State of New Mexico or other U. S. Territory within a 150 mile radius of WSMR plus the area of Utah and Colorado that lies South of 41 degrees North and between 108 degrees and 111 degrees West. Phone: 505-678-5417 or 3702.

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

(3) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.

(4) 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.

(5) Transmissions in the 3700-4200 MHz band shall be based on prior coordination with existing earth station licensees located within the coordination distance contours.

(6) All operation on Common Carrier frequencies is subject to prior coordination with authorized independent or MCC users in operational area.

(7) Operation on 454.375-454.45 and 459.375-459.45 MHz is limited to an output power of 250 watts.

(8) Any operation in the 27.5 - 29.5 GHz band must be in accordance with the rules in the Final Report and Order in CC Docket 92-297, released July 22, 1996.

(9) Operation in the 824-849, 869-894, 901-902, 930-931, or 940-941 MHz bands requires consent of cellular and PCS licensees to avoid interference.

(10) Operation in the 896-901 or 935-940 MHz bands requires coordination with local SMR licensees to avoid interference.

Special Conditions: (Continued)

(11) To avoid harmful interference to Gateway receive Earth stations in the Mobile-Satellite Service (MSS) using Non-Geostationary Satellite Orbits (NGSO) in the frequency range 19.3-19.7 GHz, sufficient distance shall be maintained between the experimental transmitting station and NGSO MSS Gateway Earth Stations.

(12) To avoid harmful interference to receiving space stations in the Mobile-Satellite Service (MSS) using Non-Geostationary Satellite Orbits (NGSO) in the frequency range 29.1-29.5 GHz, sufficient angular separation shall be maintained between the experimental transmitting station and NGSO MSS space stations.

Frequency MHz	Class Stn	Emission Designator	Authorized Power watts	Tolerance (+/-)
35.16000	MO	20K0F3E	100W (output)	0.01%
35.22000-				
35.66000	MO	36K0F3E	500W (output)	0.01%
	MO	8K00A2B	500W (output)	
	MO	8K00A3E	500W (output)	
	MO	8K00B3E	500W (output)	
	MO	8K00R3E	500W (output)	
	MO	NON	500W (output)	
43.16000	MO	20K0F3E	100W (output)	0.01%
43.22000-				
43.66000	MO	36K0F3E	500W (output)	0.01%
	MO	8K00A2B	500W (output)	
	MO	8K00A3E	500W (output)	
	MO	8K00B3E	500W (output)	
	MO	8K00R3E	500W (output)	
	MO	NON	500W (output)	
152.48600	MO	10K2F2B	20W (output)	0.005%
	MO	15K0F2B	20W (output)	
	MO	16K0F3E	20W (output)	
152.51000-				
152.81000	MO	40K0F2B	600W (output)	0.005%
	MO	40K0F3E	600W (output)	
	MO	8K00A2B	600W (output)	
	MO	8K00A3E	600W (output)	
	MO	NON	600W (output)	
152.83400	MO	10K2F2B	20W (output)	0.005%
	MO	15K0F2B	20W (output)	
	MO	16K0F3E	20W (output)	
157.74600	MO	10K2F2B	20W (output)	0.005%
	MO	15K0F2B	20W (output)	
	MO	16K0F3E	20W (output)	
157.77000-				
158.07000	MO	40K0F2B	600W (output)	0.005%
	MO	40K0F3E	600W (output)	
	MO	8K00A2B	600W (output)	
	MO	8K00A3E	600W (output)	
	MO	NON	600W (output)	
158.09400	MO	10K2F2B	20W (output)	0.005%
	MO	15K0F2B	20W (output)	
	MO	16K0F3E	20W (output)	
158.10000	MO	10K2F2B	20W (output)	0.005%
	MO	15K0F2B	20W (output)	
	MO	16K0F3E	20W (output)	
454.37500-				

454.45000	MO	80K0F2B	600W	(output)	0.05%
	MO	80K0F3E	600W	(output)	
	MO	8K00A2B	600W	(output)	
	MO	8K00A3E	600W	(output)	
	MO	NON	600W	(output)	
454.45000-					
454.97500	MO	80K0F2B	600W	(output)	0.05%
	MO	80K0F3E	600W	(output)	
	MO	8K00A2B	600W	(output)	
	MO	8K00A3E	600W	(output)	
	MO	NON	600W	(output)	
459.37500-					
459.45000	MO	80K0F2B	600W	(output)	0.05%
	MO	80K0F3E	600W	(output)	
	MO	8K00A2B	600W	(output)	
	MO	8K00A3E	600W	(output)	
	MO	NON	600W	(output)	
459.45000-					
459.97500	MO	80K0F2B	600W	(output)	0.05%
	MO	80K0F3E	600W	(output)	
	MO	8K00A2B	600W	(output)	
	MO	8K00A3E	600W	(output)	
	MO	NON	600W	(output)	
806.00000-					
890.00000	MO	80M0A7W	10W	(output)	0.05%
	MO	30K0F2B	300W	(output)	
	MO	30K0F3E	300W	(output)	
	MO	30K0F7W	300W	(output)	
	MO	8K00A7W	300W	(output)	
	MO	8K00J3E	300W	(output)	
	MO	8K00R3E	300W	(output)	
	MO	NON	300W	(output)	
890.00000-					
902.00000	MO	15K0F3E	20W	(output)	0.05%
	MO	15K0F3F	20W	(output)	
	MO	15K0F8W	20W	(output)	
	MO	NON	20W	(output)	
928.00000-					
940.00000	MO	15K0F3E	20W	(output)	0.05%
	MO	15K0F3F	20W	(output)	
	MO	15K0F8W	20W	(output)	
	MO	NON	20W	(output)	
1850.00000-					
1910.00000	MO	10M0F1B	10W	(output)	0.05%
	MO	10M0F2B	10W	(output)	
	MO	10M0F3E	10W	(output)	
	MO	10M0F7B	10W	(output)	

Frequency MHz	Class Stn	Emission Designator	Authorized Power watts	Tolerance (+/-)
	MO	80M0A7W	10W (output)	
	MO	NON	10W (output)	
1930.00000-				
1990.00000	MO	10M0F1B	10W (output)	0.05%
	MO	10M0F2B	10W (output)	
	MO	10M0F3E	10W (output)	
	MO	10M0F7B	10W (output)	
	MO	80M0A7W	10W (output)	
	MO	NON	10W (output)	
2110.00000-				
2130.00000	MO	10M0F1B	4K (output)	0.05%
	MO	10M0F2B	4K (output)	
	MO	10M0F3E	4K (output)	
	MO	10M0F7B	4K (output)	
	MO	NON	4K (output)	
2160.00000-				
2180.00000	MO	10M0F1B	4K (output)	0.05%
	MO	10M0F2B	4K (output)	
	MO	10M0F3E	4K (output)	
	MO	10M0F7B	4K (output)	
	MO	NON	4K (output)	
2400.00000-				
2483.00000	MO	1M00G7W	4W (ERP)	0.05%
3700.00000-				
4200.00000	MO	80M0A7W	10W (output)	0.05%
	MO	20M0F2B	20W (output)	
	MO	20M0F3E	20W (output)	
	MO	20M0F7B	20W (output)	
	MO	20M0F8W	20W (output)	
	MO	NON	20W (output)	
	MO	20M0B2B	250W (output)	
	MO	20M0B8W	250W (output)	
5925.00000-				
6575.00000	MO	30M0F2B	20W (output)	0.05%
	MO	30M0F3E	20W (output)	
	MO	30M0F3F	20W (output)	
	MO	30M0F7W	20W (output)	
	MO	30M0F8W	20W (output)	
	MO	NON	20W (output)	
	MO	30M0B2B	250W (output)	
	MO	30M0B8W	250W (output)	
10550.00000-				
10680.00000	MO	5M00F8W	10W (output)	0.05%
	MO	NON	10W (output)	

Frequency MHz	Class Stn	Emission Designator	Authorized Power watts	Tolerance (+/-)
10700.00000-				
11700.00000	MO	40M0F2B	50W (output)	0.05%
	MO	40M0F3E	50W (output)	
	MO	40M0F3F	50W (output)	
	MO	40M0F7W	50W (output)	
	MO	40M0F8W	50W (output)	
	MO	NON	50W (output)	
11700.00000-				
12200.00000	MO	5M00F8W	10W (output)	0.05%
	MO	NON	10W (output)	
17700.00000-				
19300.00000	MO	220MF1B	20W (output)	0.05%
	MO	220MF2B	20W (output)	
	MO	220MF3E	20W (output)	
	MO	220MF7W	20W (output)	
	MO	220MF8W	20W (output)	
	MO	700MF1B	20W (output)	
	MO	700MF2B	20W (output)	
	MO	700MF3E	20W (output)	
	MO	700MF7B	20W (output)	
	MO	700MF8W	20W (output)	
	MO	NON	20W (output)	
19400.00000-				
19700.00000	MO	220MF1B	20W (output)	0.05%
	MO	220MF2B	20W (output)	
	MO	220MF3E	20W (output)	
	MO	220MF7W	20W (output)	
	MO	220MF8W	20W (output)	
	MO	700MF1B	20W (output)	
	MO	700MF2B	20W (output)	
	MO	700MF3E	20W (output)	
	MO	700MF7B	20W (output)	
	MO	700MF8W	20W (output)	
	MO	NON	20W (output)	
21800.00000-				
23200.00000	MO	16M0A8W	10W (output)	0.05%
	MO	NON	10W (output)	
27500.00000-				
29500.00000	MO	20M0F3E	300W (ERP)	0.05%
	MO	220MD9W	300W (ERP)	
	MO	4M00F9W	300W (ERP)	
	MO	60M0F3E	300W (ERP)	
	MO	60M0F9W	300W (ERP)	
	MO	NON	300W (ERP)	

Frequency MHz	Class Stn	Emission Designator	Authorized Power watts	Tolerance (+/-)
38600.00000-	MO	20M0F3E	300W (ERP)	0.05%
40000.00000	MO	4M00F9W	300W (ERP)	
	MO	50M0F3E	300W (ERP)	
	MO	50M0F9W	300W (ERP)	
	MO	NON	300W (ERP)	

FCC 405 FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554 Approved by OMB 3060-0093 Expires 03/31/97 Est. Avg. Burden Hours Per Response: 2.25 Hrs. APPLICATION FOR RENEWAL OF RADIO STATION LICENSE IN SPECIFIED SERVICES (Specified Services - FCC Rules Parts 5, 21, 22, 23 and 25) Read Instructions and Notice on Back Before Completing	FCC USE ONLY <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">File Number 5257-EX-R-97</td> <td style="width:50%;">Call Sign KO2XAE</td> </tr> <tr> <td>Service</td> <td>Class of Station</td> </tr> </table>	File Number 5257-EX-R-97	Call Sign KO2XAE	Service	Class of Station
File Number 5257-EX-R-97	Call Sign KO2XAE				
Service	Class of Station				

1. Name of Applicant (must be identical with that shown on current authorization) Bell Communications Research, Inc.	Call Sign or Other FCC Identifier (if applicable) KO2XAE
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2. Mailing Street Address or P.O. Box, City, State and ZIP Code of Applicant 2101 L Street, NW, Suite 600, Washington, DC 20037	3. Identify Rulepart under which this filing is made
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4. Fee Data. Refer to 47 CFR Section 1.1105 or to appropriate Fee Filing Guide for information.			FCC Use Only
(a) Fee Type Code EAE	(b) Fee Multiple, if required	(c) Fee Due for Fee Type Code in 4(a) \$ 45.00	

5. Application is for renewal of license in exact conformity with the existing license as specified below:			
a) File Number 5257-EX-ML-97 3971-EX-R-95	(b) Date Issued 12/1/95	(c) Call Sign KO2XAE	(d) Location US
(e) Nature of Service Experimental	(f) Class of Station XR MO	(g) Expiration Date 12/1/97	

6. Note any changes such as discontinuance of use of a frequency, or of a type of emission or of a transmitter which have been made since the last application covering this station was filed:

Items 7(a) and (b) apply to Part 21 licensees only.

7(a) Has there been removal of equipment or alteration of facilities so as to render the station not operational?
 If "YES," when: _____ YES NO

(b) If this is a Multipoint Distribution Service (MDS) station, is there an ownership interest in, control by, affiliation with, or leasing arrangement with a cable television company? YES NO

8. Applicant represents that there has been no change in applicant's organization and that there has been no transfer of control or changes in the applicant's relation to the station, or financial responsibility; that applicant's most recent application or report embodying this information, as identified below, is to be considered as a part of this application, and the truth of the statements herein contained is hereby reaffirmed. Note here any further exceptions, not already covered in question 6 or 7.
 File No. _____ Date _____


9. Would a Commission grant of this application come within 47 CFR 1.1307, such that it may have a significant environmental impact? YES NO
 If "YES," attach as Exhibit No. _____ an Environmental Assessment required by 47 CFR 1.1311.
 If "NO," explain briefly why not.

10. Certification

The applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853a, or, in the case of a nonindividual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 CFR 1.2002(b). YES NO

- a. Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests a station license in accordance with this application. Applicant acknowledges that all attached exhibits are a material part hereof.
- b. The undersigned, individually and for the applicant, hereby certifies that the statements made in this application are true, complete and correct to the best of the signer's knowledge and belief, and are made in good faith.

Date 9/30/97	Name of Applicant (must correspond with Item 1) Bell Communications Research, Inc.	Title of Applicant (if any)
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Signature 	Designate Appropriate Classification <input type="checkbox"/> INDIV. APPL. <input type="checkbox"/> MEM. OF PART. <input type="checkbox"/> OFFICER & MEM. OF THE APPLICANT'S ASSOC. <input checked="" type="checkbox"/> AUTH. REPR. OF CORP. <input type="checkbox"/> OFFICIAL OF GOVT. ENTITY
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Willful false statements made on this form are punishable by fine and/or imprisonment (U.S. Code, Title 18, Section 1001), and/or revocation of any station license or construction permit (U.S. Code, Title 47, Section 312(a)(1)), and/or forfeiture (U.S. Code, Title 47, Section 503).



Formerly Bellcore...
Performance from Experience

Michael J. Knapp.
Executive Director –
Federal and State Regulatory Relations
2020 K Street, NW – Suite 400
Washington, DC 20006
202-776-5454
Fax 202-776-5424
Email: mknapp@telcordia.com

March 10, 1999

Mr. Paul Marrangoni
Experimental Licensing Branch
2000 M Street, NW, Suite 230
Mailstop: 1300E1
Washington, DC 20554

Dear Mr. Marrangoni:

On March 9, 1999, Bellcore announced that we had changed our name to Telcordia Technologies, Inc. This change was required as part of our sale from the RBOCs to SAIC in 1997. There is no corporate structure or ownership change or transfer of stock or any funds related to this announcement. Bellcore has five (5) Part 5 experimental radio licenses that need to be changed to Telcordia Technologies. Therefore, would you please change the name on all of our Part 5 radio licenses to reflect this change. Our licenses are:

KE2XBK KO2XAB KO2XAD KO2XAE KB2XLA.

In addition please note the mailing address for the licenses has change. The new address is:

Mike Knapp
Executive Director – Federal and State Relations
Telcordia Technologies, Inc.
2020 K Street, NW, Suite 400
Washington, DC 20006

Should you have any questions relating to this change, please feel free to call me on (202) 776-5454.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael J. Knapp".