



Proposed location of transmitter and transmitting antenna (check only one box).

FIXED/BASE

MOBILE

BASE AND MOBILE

5(b). If permanently located at a fixed location, give below:

State <b>Texas</b>	County <b>Collin</b>	City or Town <b>Richardson</b>
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Number and street (or other indication of location)  
**Various-See Exhibit #1-#3**

5(d). If mobile operation, describe the exact area of operation.

**Within the Vicinity of Richardson, Texas  
(within 15 miles of the border of  
Richardson, Texas)**

5(c). Enter the geographical coordinates to the nearest second  
**Within the Vicinity of Richardson, Texas**

North Latitude <b>Exhibit #1 - #3</b>	West Longitude <b>Exhibit #1 - #3</b>
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5(e). Enter geographical coordinates of the approximate center of proposed area of operation (mobile applications)

North Latitude <b>Exhibit #1 - #3</b>	West Longitude <b>Exhibit #1 - #3</b>
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6. Is a directional antenna (other than radar) used?

If "YES", give the following information: Yes  No

(a) Width of beam in degrees at the half-power point **See Exhibit #4-#8**

(b) Orientation in horizontal plane **See Exhibit #4-#8** (c) Orientation in vertical plane **See Exhibit #4-#8**

7. Is this authorization to be used for fulfilling the requirement of a government contract with an agency of the United States Government?

Yes  No

If "YES", attach as EXHIBIT NO. \_\_\_\_\_, a narrative statement describing the government project, agency and contact number.

8. Is this authorization to be used for the exclusive purpose of developing radio equipment for export to be employed by stations under the jurisdiction of a foreign government?

Yes  No

If "YES", attach as EXHIBIT NO. \_\_\_\_\_, the following information: Provide the contract number and the name of the foreign government concerned.

9. Is this authorization to be used for providing communications essential to a research project? (The radio communication is not the objective of the research project).

Yes  No

If "YES", attach as EXHIBIT NO. \_\_\_\_\_, a narrative statement providing the following information.

(a) A description of the nature of the research project being conducted.

(b) A showing that the communications facilities requested are necessary for the research project involved.

(c) A showing that existing communications facilities are inadequate.

10. If all the answers to Items 7, 8, and 9, are "NO" attach as EXHIBIT NO. **Exhibit #4**, a narrative statement describing in detail the following:

(a) The complete program of research and experimentation proposed including description of equipment, and theory of operation.

(b) The specific objectives sought to be accomplished.

(c) How the program of experimentation has reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along lines not already investigated.

11(a). Give an estimate of the length of time that will be required to complete the program of experimentation proposed in this application. **more than 2 yrs.**

(b). If less than 2 years, give the length of time in months that the authorization requested in this application will be require **More than 2 years**

12. Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?

Yes  No

If you answer "YES", submit an Environmental Assessment required by Section 1.1311.

13. List below transmitting equipment to be installed (if experimental, so state):

MANUFACTURER	TYPE	No. of UNITS
Northern Telecom	Dual Mode/TRU Radios, experimental	< 20
Motorola, Panasonic & Ericsson	Commercial Cellular Handsets	< 100
GE	RCU Basestations	4
Northern Telecom	DRU Basestations	14
Northern Telecom	BST	8

See Exhibit #4 for additional closed loop transmitting equipment information

14. Is the equipment listed in item 13 capable of station identification pursuant to section 5.152?  Yes  No
15. Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building?  Yes  No  
 If "YES", give the following (see instruction 9):  
 (a) Overall height above ground to tip of antenna is 13.716\* meters.  
 (b) Elevation of ground at antenna site above mean sea level is 197.82\* meters.  
 (c) Distance to nearest aircraft landing area is (7.5 miles) 12.07 kilometers.  
 (d) List any natural formations of existing man-made structures (hill, trees, water, tanks, towers, etc.) which in the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize the aeronautical hazard of the antenna.  
**All antennas above 13.716 meters are indoor. The building shielding, and shielding of other structures, prevents any hazard to aviation. NOTE: \*is for outdoor antennas...see Exhibit #6 & #8. The 13.716 meter out-of-doors antennas are shielded by the NT buildings.**  
 (e) Submit as EXHIBIT NO. #6 & #8, a vertical profile sketch of total structure including supporting building, if any, giving heights in meters above ground for all significant features. Clearly indicate existing portion, noting particulars of aviation obstruction lighting already available.

16. Applicant is (check only one box)  
 Individual  Association  Partnership  Corporation  
 Other (describe below)

17. Is applicant a foreign government or a representative of a foreign government?  Yes  No

18. Has applicant or any party to this application had any FCC station license or permit revoked or had any application for permit, license, or renewal denied by this Commission?  Yes  No  
 If "YES", attach as EXHIBIT No. \_\_\_\_\_ a statement giving call sign of license or permit revoked and related circumstances.

19. Will applicant be owner and operator of the station?  Yes  No

20. Give name, title, and telephone number (include area code) of person who can best handle inquiries pertaining to this application.  
Dr. Peter Chow, Senior Manager Microcellular Development, 214-684-7238

21. **APPLICANT ANTI-DRUG ABUSE CERTIFICATION:**  
 By checking "YES", the applicant certifies that, in the case of an individual applicant, he or she is not subject to denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862, or, in the case of a non-individual applicant (e.g. corporation, partnership, or other unincorporated association), no party to the applicant is subject to a denial of the federal benefits, that includes FCC benefits, pursuant to that section. For the definition of "party" for these purposes, see 47 CFR 2.3003(b).  Yes  No

22. List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified.

Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form
1	¶ 3, 4, 5b	8	¶ 3, 6, 15		
2	¶ 3, 5b, 5c				
3	¶ 3, 5b, 5c				
4	¶ 3, 10, 13				
5	¶ 3, 6				
6	¶ 3, 6				
7	¶ 3, 6				

23. **CERTIFICATION:**

**Attention: Read this certification carefully before signing this application.**

**THE APPLICANT CERTIFIES THAT:**

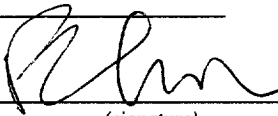
- (a) Copies of FCC Rule Parts 2 and 5 are on hand; and
- (b) Adequate financial appropriations have been made to carry on the program of experimentation which will be conducted by qualified personnel; and
- (c) All operations will be on an experimental basis in accordance with Part 5 and other applicable rules, and will be conducted in such a manner and at such a time as to preclude harmful interference to any authorized station; and
- (d) Grant of the authorization requested herein will not be construed as a finding on the part of the Commission:
  - (1) that the frequencies and other technical parameters specified in the authorization are the best suited for the proposed program of experimentation, and
  - (2) that the applicant will be authorized to operate on any basis other than experimental, and
  - (3) that the Commission is obligated by the results of the experimental program to make provision in its rules including its table of frequency allocations for applicant's type of operation on a regularly licensed basis.

**APPLICANT CERTIFIES FURTHER THAT:**

- (e) All the statements in the application and attached exhibits are true, complete, and correct to the best of the applicant's knowledge; and
- (f) The applicant is willing to finance and conduct the experimental program with full knowledge and understanding of the above limitations, and
- (g) The applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the USA.

Signed and dated this 26th day of October, 19 94

Name of Applicant BNR Inc.  
*(must correspond with name given on page 1)*

By Dr. Peter E. Chow   
*(print)* *(signature)*

Title Senior Manager Microcell Development

Check Appropriate classification:

- |   |   |
|---|---|
| <input type="checkbox"/> Individual applicant           | <input type="checkbox"/> Member of applicant partnership                |
| <input checked="" type="checkbox"/> Authorized employee | <input type="checkbox"/> Office of applicant corporation or association |

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 16, 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).**

**NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974  
AND THE PAPERWORK REDUCTION ACT OF 1980**

Information requested through this form is authorized by the Communications Act of 1934, as amended, and specifically by Section 308 therein. The information will be used by Federal Communications Commission staff to determine eligibility for issuing authorizations in the use of the frequency spectrum and to effect the provision of regulatory responsibilities rendered the Commission by the Act. Information requested by this form will be available to the public unless otherwise requested pursuant to 47 CFR 0.459 of the FCC Rules and Regulations. Your response is required to obtain this authorization.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511. DECEMBER 11, 1980, 44 U.S.C. 3507.