

David G. Richards
General Attorney

BellSouth Corporation
Legal Department-Suite 900
1133-21st Street N.W.
Washington, D.C. 20036
Telephone: 202 463-4155
Facsimile: 202 463-4195

September 23, 1996

RECEIVED

SEP 23 1996

William F. Caton, Acting Secretary
Office of the Secretary
Federal Communications Commission
Washington, DC 20554

Federal Communications Commission
Office of Secretary

Attn: H. John Morgan,
Chief, Telecommunications Branch
Spectrum Engineering Division
Room 264 , 2000 M Street, N.W.

Dear Mr. Caton:

On behalf of BellSouth Personal Communications, Inc. (d/b/a BellSouth Mobility DCS), enclosed for filing are an original and a duplicate of Interim Technical Report Number 1 for Experimental Radio Station License KA2XBT.

If there are any questions concerning this filing, please direct them to the undersigned or Ben G. Almond, Executive Director, Federal Regulatory, BellSouth Corporation, at the address above, or telephone (202) 463-4112, facsimile (202) 463-4198.

Respectfully submitted,



David G. Richards

Enclosures

RECEIVED

SEP 23 1996

**Federal Communications Commission
Office of Secretary**

Interim Technical Report Number 1 Experimental License: KA2XBT

September 20, 1996

License issued to:
**BellSouth Personal Communications, Inc.
3353 Peachtree Road, N.E.
Suite 300 North Tower
Atlanta, Georgia 30326**

Table of Contents

	Page
I Introduction.....	1
II Status	1

I Introduction

On March 5, 1996, the Federal Communications Commission granted experimental license KA2XBT file 5113-EX-PL-96 to BellSouth Personal Communications, Inc. (BPCI). The purpose of the license was to conduct experimentation on frequencies in the 1850-1990 MHz band for the purpose of measuring propagation characteristics in that band, and to evaluate PCS type equipment and services in the frequency ranges of the license. This is the first report required under the terms of the license.

II Status

In May of this year BellSouth hosted the 34th annual GSM MoU Plenary Meeting in Atlanta, Georgia. BellSouth utilized the experimental license to evaluate operability of the PCS1900 system in a decentralized configuration with an existing DCS/GSM service provider. An infrastructure manufacturer provided equipment to prove the great flexibility in decentralizing the PCS networks utilizing the PCS1900 technology. Using a PCS1900 BTS on frequencies 1880 MHz and 1882 MHz, located in the Ritz Carlton in Atlanta, Georgia and a Base Station Controller (BSC) and switch (MSC) located in Lausanne, Switzerland we were able to operate a PCS system for the 3 days of the conference successfully terminating and originating calls, updating configurations and tracking customer billing. These system performance test was successfully terminated in June.

In July of this year BellSouth Mobility DCS installed a Nortel prototype micro BTS on frequency 1892 MHz, in its Atlanta Headquarters office to assist in evaluating PCS equipment and services for planned implementation in its MTA markets in the Carolina's and Tennessee. Test have been performed on different handsets for voice quality and data capabilities in addition to test on services and customer activations. The ability to perform these test from our headquarters office has helped us in bringing a quality network and services to the customers in our MTA service areas in a timely manner. BellSouth is actively pursuing expanding its PCS coverage by bidding on BTA licenses in the D,E and F blocks. We anticipate that the information obtained from the usage of this experimental license to analyze mobile test cases and PCS services will be very beneficial for our BTA PCS customers as well.