

BellSouth Personal Communications, Inc.
Application For An Experimental
Radio Service License (FCC Form 442)
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EXHIBIT 1

Response to Item 4(A)

BellSouth Personal Communications, Inc. ("BPCI"), has learned a great deal about propagation in the 1850-1990 MHz band from the results of the PCN testbed system employed by its corporate parent, BellSouth Enterprises, Inc., under Experimental Radio Service License KF2XBR, and its propagation testing in the Charlotte and Knoxville Major Trading Areas under Experimental Radio Service License KQ2XBW. However, BPCI now seeks authority to conduct propagation studies throughout the nine southeastern United States, specifically, Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee (the "Nine State Region"), on various frequencies in the Broadband PCS C, D, E, F and unlicensed Blocks, i.e., 1865-1870 MHz, 1885-1930 MHz, 1945-1950 MHz and 1965-1990 MHz bands.

BPCI has studied the 2 GHz microwave usage in the Nine State Region. BPCI will insure its experimentation does not inflict interference upon any of the incumbent microwave licensees within the environs of its propagation studies. All microwave licensees within 75 miles of each test site will be coordinated with to avoid harmful interference to their operations.

BPCI has factored into its experimental program the fact that Broadband PCS A & B Block licenses have been granted throughout the Nine State Region. BPCI will insure its experimentation does not inflict interference upon any of the start-up operations of any of those licensees by limiting its experimental program to the Broadband PCS C, D, E, F and unlicensed Blocks. Indeed, experimentation in the unlicensed Block, which is less heavily populated with microwave facilities, will provide BPCI with usable propagation data while minimizing the potential for interference to existing microwave users.

BPCI expects Cook Inlet BellSouth PCS, L.P. ("CIBSLP"), in which it holds a limited partnership, to win the licenses for the thirteen Basic Trading Areas ("BTAs") for which it has applied. Each of the BTAs is located in the Nine State Region. Grant of the instant application will afford BPCI the ability to perform propagation analyses in the actual microwave environment which CIBSLP will encounter upon inauguration of its PCS systems and it will permit BPCI to do similar testing in the Broadband PCS D, E and F Blocks for purposes of determining whether to bid in those

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blocks as well. The public will benefit from the knowledge gained during this experimentation in that the resulting PCS systems will be designed based on known propagation characteristics and BPCI's periodic experimental reports will address many of BPCI's findings.

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EXHIBIT 2

Response to Item 4(E) (F) and (G)

BellSouth Personal Communications, Inc. ("BPCI"), may include different emissions and modulation formats during each phase of the experimentation. However, the major focus of the experimental program will be propagation studies. Thus, BPCI will primarily use unmodulated carriers. Dependent upon propagation results and timing, the testing may evaluate the performance of various access schemes such as TDMA, CDMA and frequency hopping spread spectrum.

Various bandwidths will be utilized during the testing to evaluate the frequency/power coordination schemes which can be anticipated in an operational Broadband PCS system on various frequencies in the Broadband PCS C, D, E and F Blocks.

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EXHIBIT 3

Response to Item 5

BellSouth Personal Communications, Inc. ("BPCI"), seeks authority to perform propagation studies throughout the nine southeastern United States, specifically, Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee (the "Nine State Region") on various frequencies in the Broadband PCS C, D, E, F and unlicensed Blocks, *i.e.*, 1865-1870 MHz, 1885-1930 MHz, 1945-1950 MHz and 1965-1990 MHz bands.

The instant application seeks a wide area for experimentation. The Nine State Region is made up of diverse urban and rural environments and a varied mix of terrain and vegetation in those settings. In addition, the radio environment is quite different from one area to another. There is a wide difference in the density of microwave deployment from one area to another in the Nine State Region. Propagation studies throughout these areas will permit BPCI to obtain empirical evidence in these varied environs.

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EXHIBIT 4

Response to Item 6

BellSouth Personal Communications, Inc. ("BPCI"), will use omni-directional and directional antennas during the course of the experimentation. BPCI considers it essential to its experimentation program to employ a wide variety of antennas from different manufacturers. Given the considerable number of different environmental factors which will impact on the propagation studies, BPCI views it as quite important to have maximum flexibility in its choice of antenna design and directionality. The microwave environment alone likely will dictate the testing of a number of antennas.

BPCI expects to learn which antennas are best in which environment to maximize service to potential Broadband PCS customers and avoid harmful interference to existing microwave licensees.

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EXHIBIT 5

Response to Item 10

BellSouth Personal Communications, Inc. ("BPCI"), has designed an experimental program for the instant application which will involve intensive propagation studies in urban and rural environs.

BPCI initially will finalize its independent analysis of the 2 GHz microwave environment in various locations throughout the nine southeastern United States, specifically, Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee (the "Nine State Region") on various frequencies in the Broadband PCS C, D, E, F and unlicensed Blocks, i.e., 1865-1870 MHz, 1885-1930 MHz, 1945-1950 MHz and 1965-1990 MHz bands. The analysis will show BPCI where it needs to perform propagation studies to experience different microwave environments and the locales where extra precautions are warranted to avoid harmful interference to existing 2 GHz microwave licensees.

The testing will employ 2 GHz test transmitters along with Global Positioning System receivers to allow signal measurements to be accurately correlated with position data. This measurement system will permit BPCI to develop a functional understanding of Broadband PCS design concepts, to evaluate technical options available for service delivery, and to confirm projections generated by computer-based propagation models developed from previous experimental programs. One aspect of the latter will be to determine the propagation modeling modifications needed, if any, due to constant transitioning from urban to rural to urban environments expected in the Nine State Region.

The ultimate goal of this experimentation program is to facilitate the rapid deployment of Broadband PCS networks in the Nine State Region on the Broadband PCS C, D, E and F Blocks.

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EXHIBIT 6

Response to Item 15

BellSouth Personal Communications, Inc. ("BPCI"), will use towers and other supporting structures which will allow BPCI to test propagation characteristics at different heights above ground level in urban and rural settings.

In urban environments, BPCI intends to erect antennas on ~~existing structures~~ at heights that vary from ground level to 200 feet above ground level. BPCI will adjust the effective radiated power ("ERP") of its test transmitters such that the ERP in an urban setting will not exceed 10 watts.

In rural environments, BPCI will use existing facilities and temporary measures, such as cranes, to approximate a wide range of heights above ground level for purposes of its experimental program. These heights will vary from ground level to 300 feet above ground level. BPCI will adjust the effective radiated power ("ERP") of its test transmitters in these rural areas such that the ERP will not exceed 100 watts.