

EXHIBIT 1

Attached to FCC Form 442 – Response to Question 10

Applicant, Southwestern Bell Technology Resources, Inc. (SBTR), is a corporation organized under the laws of Delaware. SBTR is a wholly owned and operated subsidiary of SBC Communications, Inc. (formerly Southwestern Bell Corporation), a regional Holding Company created as a result of the 1982 AT&T divestiture decree. SBC's subsidiaries include Southwestern Bell, Pacific Bell, and Southern New England Telephone. SBC also operates cellular telephone companies that are licensed to operate in Texas, Missouri, Arkansas, Kansas, Oklahoma, Massachusetts, New York, Virginia, Maryland, District of Columbia, California and Nevada. SBC has substantial experience in provision of telecommunications products and services and is constantly seeking to extend its operation into new frontiers of technology to provide state of the art telecommunications services and products.

SBTR is applying for experimental authority under Part 5 of the Commission's Rules to study and demonstrate the feasibility and validate the performance of new technologies, products, and services in land mobile radio communications. In particular, SBTR will examine radio telephones and data units for use in and around residential units and business environment (offices, factories, medical centers, shopping malls, etc.) to provide tetherless voice and data services collectively known as, but not restricted to, PCS (Personal Communications Services.)

SBTR has the financial resources and technical expertise to conduct the proposed experiments. The tests to be performed under the requested authorization will be under the direct supervision of radio engineers, qualified to supervise and conduct tests, and who have previously conducted and supervised measurements submitted to FCC in conjunction with numerous requests for equipment authorization. The engineers also include individuals who have been actively involved in the operation of transmitting facilities and radio frequency devices under FCC experimental authorizations, and whose experiments have been the subject of field reports.

The proposed experiments will be conducted in laboratory environment and select test sites without any customer involvement or revenue generation. A wide range of technical alternatives, including modulation, coding, and multiple access methods, will be tested for developing new lines of business serving public interest. Prototype equipment from various vendors will be tested in laboratory environment (including mobile measurement unit) to evaluate their performance and technical capability in satisfying user needs.

As operation under some licenses in certain frequency bands may require coexistence with other service offerings in those frequency bands, a key objective is to identify a modulation type and multiple access method from amongst several candidates which would be utilized in a comprehensive approach intended to avoid harmful

interference to incumbent services such as Private Operational Fixed Microwave licensees. Another objective is to evaluate the cost-effectiveness of candidate approaches.

SBTR requests initial experimental authority for a two-year period to conduct limited technical experiments in connection with its experimental program. SBTR reserves the option of seeking an extension of the experimental license should circumstances warrant.

SBTR plans to also test the feasibility of a portable communications network (PCN) comprised of both larger and smaller micro-cells, from approximately 100 feet to 1 mile in diameter. Radio protocols, power control algorithms, dynamic channel assignment algorithms, hand-off algorithms, radio link hardware parameters and radio base station architecture will be selected to facilitate cost-effective portable communications services.

The initial experimental tests and measurements will be conducted using potential PCS products introduced by vendors who would separately have applied for FCC type approval of their products. SBTR will identify any and all incumbent FCC licensees operating in the same frequency band as the one used under the experimental license within a fifty mile geographic area and insure that no harmful interference as specified by the Commission's Rules may be caused to the incumbents. SBTR will notify and coordinate all tests under the experimental license with the above mentioned incumbents.

SBTR agrees in connection with its program of experimentation to:

Submit annual progress reports to the Commission or more often if requested.

Inform the Commission of the specific sites selected for test transmissions.

Inform the Commission promptly of any interference complaints from any authorized users of the band during experimentation and explain how such complaints were resolved.

Not transfer or license the right granted without Commission approval.

Retain ownership of the equipment used in the experiments unless a waiver of that requirement is obtained.

Inform test participants that any service is provided under limited experimental authority.

Inform test participants that any service is temporary.

SBTR requests to continue its waiver of the Section 5.152 requirement to transmit a call sign because of technical infeasibility in connection with these experiments and tests.

SBTR also requests authority to transmit signals utilizing non-FCC approved experimental laboratory prototype radio transmitters and devices.

Some of the particular areas of research and experimentation will be to:

Determine the optimal individual user channel bandwidth, modulation, and multiple access type.

Experiment with slow and fast frequency hopping to mitigate multipath fading effects.

Determine the suitability of a particular frequency band for operation with a given modulation method or transmission protocol.

Experiment with various forms and designs of phased array antennas.

Determine what transmitter power is required for micro-cells of various sizes for a number of environments.