Southwestern Bell
Technology Resources

March 22, 1995

Mr. Richard M. Smith
Chief - Office of Engineering and Technology
Federal Communications Commission
2025 M Street, NW
Washington, DC 20554

Re: Southwestern Bell Technology Resources, Inc.
Call Sign KM2XBI
File Number: 3037-EX-PL-92
Quarterly Progress Report Number Eleven

Dear Mr. Smith:

In accordance with the Federal Rules and Regulations Part 5, Section 5.204(b), attached please find the eleventh quarterly progress report for Southwestern Bell Technology Resources, Inc. in connection with our personal/wireless communications testbed in St. Louis, Missouri.

The main objective in our St. Louis testbed is to verify performance of the emerging wireless communications systems and technologies prior to integration into one of Southwestern Bell Corporation's business units. Attached we are reporting our progress and test results in the area of wireless local loop.

Please direct any inquiries to me at 314-529-7567.

Sincerely,

John A. Moore
Director, Wireless Communications

Attachment

FCC Quarterly Progress Report Number Eleven (11) in Connection with Personal/Wireless Communications Testbeds in St. Louis, Missouri

Conducted by Southwestern Bell Technology Resources, Inc.

March 22, 1995

Authorized by FCC Experimental License
Call Sign KM2XBI, File Number 3037-EX-PL-92

1.0 Introduction

This report describes progress in the Wireless Local Loop experimental testbed during the period from December 20, 1994 through March 19, 1994.

2.0 Wireless Local Loop Progress

We have received the wireless local loop testbed equipment and have deployed it in the field. The equipment consists of 5 Radio Ports (RPs), 30 Wireless Fixed Access Units (WFAUs), a Radio Port Control Unit (RPCU), and a Network Element Manager (NEM). The testbed is configured as shown in Figure 2-1 below. The test participants will receive service from the existing copper drop or the wireless local loop system. The selection of the system will be done under control of the TRI Portable Communications Lab via dial-up control line to an A/B switch. This will be a blind test, the participant will not know which is being used. This should provide an objective evaluation of voice quality and service transparency.

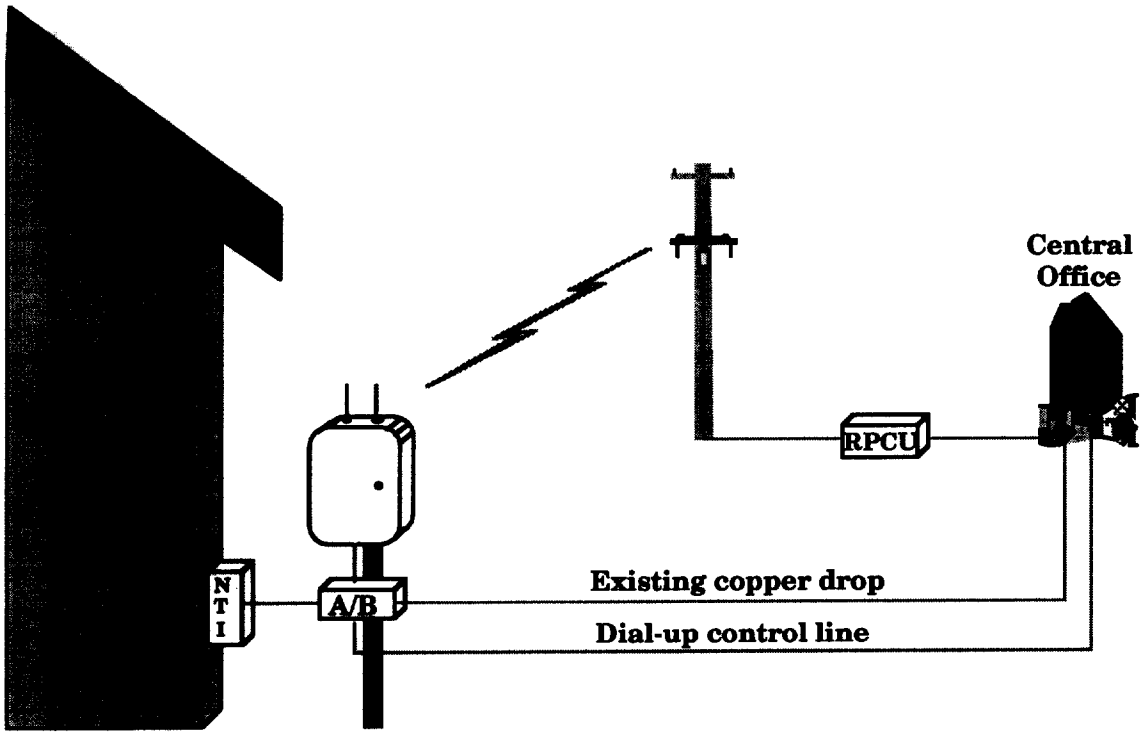

Figure 2-1 - Testbed configuration

During the last quarter, the equipment has undergone shakedown testing to verify its operation and compliance with applicable specifications. We have completed calls on all radio ports, both wireless-to-wireline and wireless-to-wireless. Each radio port is capable of supporting seven simultaneous calls with a TDMA approach as specified in the PACS air interface specification. We have successfully completed seven calls on each radio port. Continuing hardware and software development delays from the testbed equipment supplier have prevented us from beginning the blind test phase of the trial. However, the voice quality has been excellent and it is currently anticipated that the blind trial will begin in late April.

3.0 Personal Communications

Southwestern Bell Mobile Systems has won licenses to provide PCS in the Tulsa, Little Rock and Memphis MTAs. In order to support this effort, Southwestern Bell Technology Resources is currently in the process of requesting an extension of this experimental license to cover those geographic areas.