



Southwestern Bell Technology Resources

John A. Moore
512-372-5810

December 19, 1996

Mr. Richard M. Smith
Chief - Office of Engineering and Technology
Federal Communications Commission
2000 M Street, NW
Room 480
Washington, DC 20554

Re: Southwestern Bell Technology Resources, Inc.
Call Sign KM2XBI
File Number: 4703-EX-ML-95 (expansion/continuation of 3037-EX-PL-92)
Quarterly Progress Report Number Eighteen

Dear Mr. Smith:

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

The main objective of our Austin testbed is to verify performance of the emerging wireless communications systems and technologies prior to integration into one of SBC Communications Inc.'s business units.

Please direct any inquiries to me at 512-372-5810.

Sincerely,


John A. Moore
Director, Wireless Communications

Attachment

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1.0 Introduction

This report describes experimentation conducted in Austin, TX on the use of a 38 GHz microwave point-to-point link for interconnection of the multiple cell sites that make up the Southwestern Bell Technology Resources, Inc. (TRI) Austin testbed. The experimentation will examine rain effects, reliability, suitability to the application, etc.

2.0 38 GHz Microwave

On 12-3-96 TRI turned up the first of nine microwave links that will be installed in the next six months. These links use 38 GHz equipment with one foot antennas. We will be looking specifically at the performance characteristics associated with rain fades, power levels, distance and antenna polarity. The first system is operating on channel 48, bands one and three, with the transmit power set at 16 dBm. One end of the link is sited on the roof of TRI's building at 9505 Arboretum Blvd., the other end is on a pole 0.6 miles north of that location.

We have no results to report as yet.