



**Southwestern Bell
Technology Resources**

Roger V. Thompson
512-372-5810

September 19, 1997

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
Quarterly Progress Report Number Twenty One

Dear Mr. Smith:

In accordance with the Federal Rules and Regulations Part 5, Section 5.204(b), attached please find quarterly progress report number twenty one 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,

Roger V. Thompson
Director, Wireless Communications

Attachment

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ENGINEERING
AND TECHNOLOGY

**FCC Quarterly Progress Report Number Twenty One (21)
in Connection with Personal/Wireless Communications
Testbeds**

Conducted by Southwestern Bell Technology Resources, Inc.

September 19, 1997

**Authorized by FCC Experimental License
Call Sign KM2XBI, File Number 4703-EX-ML-95
(expansion/continuation of 3037-EX-PL-92)**

Austin Testbed

Southwestern Bell Technology Resources, Inc. (TRI) is in the process of deploying a 9 site testbed in Austin to examine cellular, PCS and Wireless Local Loop (WLL) systems. These sites will be interconnected by 38 GHz point-to-point microwave links back to TRI's building at 9505 Arboretum Blvd., Austin, TX 78759. We currently have the first of these microwave links installed and operating. We have been using this link to evaluate performance characteristics associated with power levels, distance and antenna polarity.

Data on test configuration:

Frequency:	Channel 48 Band 1 - 38837.5 Mhz and Band 3 - 39537.5 Mhz
Channel bandwidth:	3.5 MHz
Transmit power:	16 dBm
Range:	Approximately 1 mile
Data:	Test pattern from T1 test set