



Cathleen A. Massey
Vice President - External Affairs

AT&T Wireless Services, Inc.
Fourth Floor
1150 Connecticut Ave. NW
Washington, DC 20036
202 223-9222
FAX 202 223-9095
PORTABLE 202 957-7451

November 25, 1996

Mr. H. Franklin Wright
Office of Engineering and Technology
Federal Communications Commission
2000 M Street, N.W.
Rm. 230
Washington, D.C. 20554

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NOV 25 1996

**FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY**

RE: FCC Experimental License KA2XAC
Issued to Interstate Mobilephone Company
File No. 5007-EX-PL-95
Experimental Report

Dear Mr. Wright:

Interstate Mobilephone Company is hereby submitting its latest progress report regarding the experimental activities associated with the above-referenced license. Please do not hesitate to call me should you have any questions regarding this matter.

Sincerely,

Cathleen A. Massey
Cathleen A. Massey
Vice President - External Affairs

Enclosure

cc: FCC Secretary's Office

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Progress Report - FCC Experimental License KA2XAC

**FEDERAL COMMUNICATIONS COMMISSION
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1. Introduction

This report describes the progress of an ongoing series of propagation tests in the 1850-1990 MHz band, in and around the Redmond, WA area. The testing requires the transmission and reception of wideband-modulated signals to characterize multipath-induced effects and other anomalies over a relatively wide frequency range. This work is necessary to support the requirements definition for wireless communications systems.

2. Activities During This Quarter

The testing this quarter was performed at a higher receive antenna height of 100'. Specifically, measurements were made across a busy highway to determine the effect of many moving reflectors between the transmit and receive antennas. The channel displayed a time-varying amplitude as expected, but the frequency of the variation was very low, on the order of 10 Hz or less, and the amplitude did not vary much (less than 1 dB variation).

3. Plans for Next Quarter

The testing with wideband signals will continue to determine the effects of transmitting over water and through foliage.