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February 19, 1997

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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FEB 20 1997

**FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY**

RE: FCC Experimental License KA2XAC
Issued to AT&T Wireless Services
File No. 5007-EX-PL-95
Experimental Report

Dear Mr. Wright:

AT&T Wireless Services 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
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 CW and 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 system.

2. Activities During This Quarter

The testing this quarter was performed at a receiver antenna height of 10 feet and a transmitter antenna height of 100 feet. The distance between the transmitter and the receiver was about ½ mile. Specifically, measurements were made across Lake Washington to determine the effect of water between the transmit and receive antennas. The data is yet to be analyzed.

3. Plans for Next Quarter

The testing with CW wideband signals will continue to determine the effects of transmitting during rain, through wet foliage and effects of the angle of arrivals on the signal strengths.