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USWEST

Elridge A. Stafford
Executive Director-
Federal Regulatory

April 4, 1997

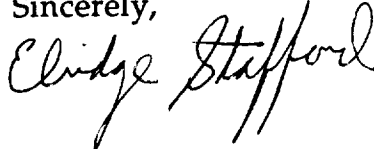
Mr. H. John Morgan
Office of Engineering and Technology
Experimental Licensing Branch
Federal Communications Commission
2000 M Street, NW, Room 230
Washington, DC 20554

RE: U S WEST Communications, Inc.
PCS Experimental License for Boulder, CO
Call Sign KK2XCC
File Numbers: 2148-EX-PL-91, 3306-EX-ML-92,
3630-EX-ML-93, 3630-EX-R-93, 4064-EX-ML-93
4506-EX-ML-94, 4970-EX-MR-95, 4970-EX-R-97
Twentieth Quarterly Report

Dear Mr. Morgan:

Enclosed, please find U S WEST Communications' (USWC) twentieth quarterly report addressing the above-referenced authorization for PCS field trials in Boulder, Colorado.

Should you have any questions or require additional information, please call me.

Sincerely,


Enclosure

U S WEST Communications, Inc.

**Twentieth Quarterly Progress Report
FCC Experimental License
KK2XCC**

April 4, 1997

Submitted to:

**Federal Communications Commission
Experimental Licensing Branch
2000 M Street, N.W., Room 230
Washington, DC 20554**

Prepared By:

**U S WEST Communications, Inc.
Wireless Group
1999 Broadway, 10th Floor
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Introduction

This twentieth quarterly report summarizes the activities conducted by U S WEST Communications, Inc. ("USWC") under FCC Experimental License KK2XCC. This report covers activities during the period January 4, 1997 through April 4, 1997.

In-Building Coverage Improvements

The configuration of the leaky coaxial cable will allow testing with a variety of antennae as well as a comparison of a single strand of coaxial cable to two strands and a comparison of various cable locations within a building (perimeter wall, interior wall, etc.). Leaky coaxial cable was installed in a commercial building during the previous quarter. However, problems with the installation of cable connectors necessitated re-working the installation of the connectors four times. As a result, the in-building tests using the leaky coaxial cable system have not yet commenced.

Optimization Procedure Development

Testing for site optimization is still underway. Methods and procedures have been developed and are being evaluated in actual field applications. Hard and soft hand-offs, cell area coverage, and elimination of dropped calls are key aspects of the optimization.

Fixed Wireless Developments

USWC is also testing several wireless local loop technologies. Much of the equipment has gone through several upgrades since USWC began its testing. The units tested include an untethered desktop model that relies on wireless for both the local loop and the inside-the-home wiring, and a model that utilizes standard inside-the-home wiring and relies on wireless only for the local loop. In blind tests, participants rated the wireless voice quality as excellent, and often ranked it above landline quality.

Access to and operation of custom calling features (e.g. call forwarding, call waiting and three-way calling) were tested with all units. Caller ID was not available on the units tested. Some variances in access and operation were identified. USWC is working with the manufacturers to resolve these differences. For example, how the customer interacts with custom calling features (i.e., activation and deactivation of features) was not uniform and was not consistent with access to these features using a standard wireline tone telephone. These differences might be confusing to customers, particularly where the customer has two lines where one line is wireline and the other is wireless.

USWC plans to continue its testing and analysis in the categories discussed in this report.