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Elridge A. Stafford
Executive Director-
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- NEW TECHNOLOGY
DEVELOPMENT DIVISION

- ALLOCATIONS &
STANDARDS DIVISION

USWEST

October 4, 1996

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

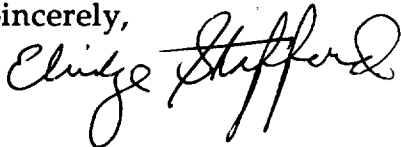
RE: U S WEST Communications, Inc.
PCS Experimental License for Boulder, CO
Call sign KK2XCC
File Numbers: 2148-EX-PL-91, 3306-EX-ML-92,
3630-EX-ML-93, 3630-EX-R-93, 4064, EX-ML-93,
4506-EX-ML-94, 4970-EX-MR-95
Eighteenth Quarterly Report

Dear Mr. Morgan:

Enclosed, please find U S WEST Communications' (USWC) eighteenth 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.

**Quarterly Progress Report, Boulder, Colorado
FCC Experimental License
KK2XCC**

October 4, 1996

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
Denver, CO 80202**

Introduction

This third quarter, 1996 quarterly report summarizes the activities as conducted by U S WEST Communications, Inc. ("USWC") in Boulder, Colorado under FCC Experimental License KK2XCC. This reports covers the period July 4, 1996 through October 3, 1996. USWC does not have any new results to report but activities under way are described below.

J-STD-008 CDMA Testing

J-STD-008 CDMA field testing continued again this quarter with the same equipment configuration. The refinement of CDMA technology has resulted in frequent software updates from vendors requiring reverification of the system parameters each time.

Mobile Consumer Handset Developments

During this quarter USWC received additional handsets that have been partially deployed among trial participants. While some tests can be performed with the current level of handsets, USWC would like to test loads on switching facilities, busy hour simulation and wide spread, high level hand-off of mobile traffic with additional handsets. More testing will be done as the remainder of the handsets are deployed to trial participants.

Trial participants are providing feedback on handset design, features, and system quality. Features being offered include: call forwarding, call waiting, three-way calling, calling number identification, voice messaging, and per call or line blocking. Participants have identified areas where calls were dropped. As a result of their feedback, changes were made to system synchronization and timing which improved system performance. Participants also indicated a desire for a different earpiece which the manufacturer will provide in later generations. The participants are impressed with the sound quality and have commented that it sounds like a land line telephone. While the phones are the right size and weight, users are asking about accessories such as belt clips. USWC is working with the manufacturer to evaluate the feedback.