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Elridge A. Stafford
Executive Director-
Federal Regulatory

June 9, 1994

Mr. H. Franklin Wright
Office of Engineering and Technology
Frequency Liaison Branch
2025 M Street, N.W., Room 7326
Washington, D.C. 20554

RE: U S WEST COMMUNICATIONS, INC. *2148-KL-93*
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
NINTH QUARTERLY REPORT
PCS Experimental License for Boulder, CO

Dear Mr. Wright:

Enclosed please find U S WEST Communications ninth 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,

A handwritten signature in cursive script that reads "Elridge A. Stafford". The signature is written in dark ink and is positioned below the word "Sincerely,".

Enclosure

U S WEST
Wireless Personal Communications
Experiments

Quarterly Progress Report #9
FCC Experimental License
KK2XCC

June 3, 1994

Submitted to

Federal Communications Commission
Frequency Liaison Branch
Room 7326
Washington, DC 20554

Prepared by

U S WEST Technologies
Wireless Communications Services
4001 Discovery Drive
Boulder, CO 80303

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Executive Summary

This quarterly report summarizes field testing conducted by U S WEST Technologies in the Boulder PCS Testbed from March 5, 1994 through June 3, 1994. During this period, three field test were conducted. These were high speed mobility testing on Ericsson DCT 1800 PCS units, walking speed evaluation of the same units, and a sweep for interfering emissions.

1 Introduction

This report summarizes field testing conducted by U S WEST Technologies in the Boulder PCS Testbed under FCC Experimental License KK2XCC. The period covered by this quarterly report is from March 5, 1994 through June 3, 1994.

2 Progress on Boulder Testbed Expansion

As of May 31, 1994, the testbed expansion is nearly complete, and very low level activity was spent in this area during this past quarter. Area 3 in Boulder with the broadband backbone is not fully completed. Two of the four base station sites in Denver (i.e. area 6) are still being engineered. With these exceptions, the testbed infrastructure buildout is finished.

3 Field Testing

A high speed mobility test was conducted on Ericsson DCT 1800 hardware during March, 1994. The three base station sites along south Broadway in Boulder were used. Vehicle speeds ranged up to fifty miles per hour. This test was completed.

The same hardware was tested at walking speeds during April, 1994. Base station sites around the Boulder Pearl Street Mall were used. This test was not completed due to equipment problems, and a date to resume and complete testing is indefinite.

During April and May, 1994, both the Boulder area of BITB and the Denver BITB sites were tested for interfering, in band emissions., e.g. point to point microwave links.

4 Future Research

Testing on WACS prototype hardware, referred to in the last report, was delayed due to hardware problems and subsequent late delivery. Testing on this technology is now planned for the next quarter.

As indicated in the last two quarterly reports, the testbed facility has been offered to the PCS standards bodies (e.g. Joint Technical Committee, PCS Technology Advocacy Group). In fact, U S WEST made a press release to this effect in May, 1994. A draft test plan has been prepared for a contribution to JTC in June.

BITB TEAM LISTING

<u>Function</u>	<u>Name</u>	<u>Suite</u>	<u>Phone</u>
Management:	Tom Dodds	290	4171
USWC:	Ric Siek	1801 CA	896-0341
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Radio:	Ty Larson	290	6539
	Scott McClatchey	290	6795
	Mark Poletti	290	6906
	Dave Robinson	290	6792
	Blake Russo	290	6597
Lab Mgt/Sched:	Bob Hufner	250	6362
SW Dvlpmt & Test	Jim Corless	240	6760
Operations:	Pete Reinig	2100	6442
	Aida Jaber	2100	6360
Human Factors:	Paula Messamer	340	6070
	Michelle Owens	340	7002