

U S WEST, Inc.
Suite 700
1020 Nineteenth Street, NW
Washington, DC 20036
202 429-3134
FAX 202 296-5157

EX PARTE OR LATE FILED

BUCKET FILE COPY ORIGINAL

USWEST

Elridge A. Stafford
Executive Director-
Federal Regulatory

~~EX PARTE OR LATE FILED~~

March 28, 1994

RECEIVED

MAR 28 1994

NOTICE OF WRITTEN EX PARTE

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Mr. William F. Caton
Acting Secretary
Federal Communications Commission
1919 M Street, N.W., Room 222
Mail Stop 1170
Washington, D.C. 20554

RE: Gen. Docket No. 90-314

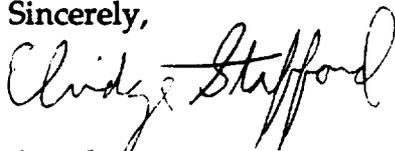
Dear Mr. Caton:

In response to a request from Dr. Robert Pepper, Chief, FCC Office of Plans and Policy, a list of questions concerning the development and manufacture of PCS equipment was sent to him today by the undersigned, on behalf of U S WEST. A copy of the material is attached to this letter. Please include this letter and attachments in the record for the above mentioned proceeding.

In accordance with Section 1.1206(a)(2) of the Commission's rules, the original and one copy of this letter, with attachments, are being filed with your office. Acknowledgment and date of receipt of these transmittals are requested. A duplicate of this letter is included for this purpose.

Please contact me at (202) 429-3134 should you have any questions concerning this matter.

Sincerely,



Attachments

cc: Dr. Robert Pepper

U S WEST, Inc.
Suite 700
1020 Nineteenth Street, NW
Washington, DC 20038
202 429-3134
FAX 202 296-5157

USWEST

Elridge A. Stafford
Executive Director-
Federal Regulatory

March 28, 1994

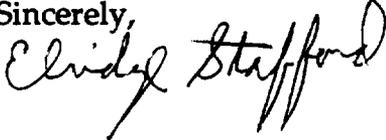
Dr. Robert Pepper
Chief, Office of Plans and Policy
Federal Communications Commission
1919 M Street, N.W., Room 822
Washington, D.C. 20554

RE: Gen. Docket No. 90-314

Dear Dr. Pepper:

In response to your request at our meeting March 16, 1994, attached please find a brief list of questions that may be useful in your discussions with potential manufacturers of PCS equipment.

Please call me if I can be of additional assistance or if you wish to discuss these questions further.

Sincerely,


Attachment

March 25, 1994

PCS Questions

- 1) Given that PCS deployment is likely to begin by mid-1995, what systems and technologies will be available in commercial quality and quantity in 1995?
- 2) If handset interoperability between cellular and PCS networks is required for some users, how feasible is, and what are the cost implications of building a dual band/dual mode portable phone? (e.g., 800 MHz cellular and 1.8/2.1 GHz PCS) Will such phones be available in 1995? How will their cost and size differ from cellular phones?
- 3) How can network interoperability and service/personal mobility be realized between cellular and PCS (and among different PCS) networks using (in many cases) different technologies?
- 4) PCS is envisioned to be a mass market wireless service. How will the equipment costs for PCS systems (vis-a-vis cellular) be managed to make PCS products salable to the mass market?
- 5) What are the propagation differences between 800 MHz and 2 GHz? Given these, what effects do the proposed power limits have on the cell size and deployment economics of 2 GHz systems vs. 800 MHz systems? What base station power limits should be adopted in order to facilitate economic realization of coverage in suburban and rural areas? What impact does this have on the use of proposed "smart antenna" technologies?
- 6) The ITC has grouped PCS standards into small (low tier) and large cell systems. What are the implications of the FCC's build out requirement on the economic viability of low tier systems? Similarly, do the FCC's build out requirements limit use of the spectrum for niche market applications such as wireless data or concentration on wireless for businesses and campus environments?
- 7) What are the cost implications of adding unlicensed capability to the radio technologies proposed for the licensed PCS bands? What are the cost ramifications if the licensed service is at 2.1 while the unlicensed band is at 1.9 GHz?
- 8) What is the feasibility of implementing a seamless PCS network utilizing both 1.8 and 2.1 GHz bands in adjacent license areas?