RECEIVED

NOV 24 1993

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

COVINGTON & BURLING
1201 PENNSYLVANIA AVENUE, N.W.
P.O. BOX 7566
WASHINGTON, D.C. 20044-7566
(202) 662-6000

TELEFAX: (202) 662-6291
TELEX: 89-593 (COVLING WSH)
CABLE: COVLING

LECONFIELD HOUSE
CURZON STREET
LONDON W1Y 8AS
ENGLAND
TELEPHONE: 071-495-5655
TELEFAX: 071-495-3101

BRUSSELS CORRESPONDENT OFFICE
44 AVENUE DES ARTS
BRUSSELS 1040 BELGIUM
TELEPHONE: 32-2-512-9890
TELEFAX: 32-2-502-1598

DOCKET FILE COPY ORIGINAL

EX PARTE OR LATE FILED

KURT A. WIMMER
DIRECT DIAL NUMBER
(202) 662-5278

November 24, 1993

BY MESSENGER

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

Re: ET Docket No. 93-266; Gen. Docket 90-314

Dear Mr. Caton:

American Personal Communications ("APC"), pursuant to Section 1.1206(a)(2) of the Commission's Rules, 47 C.F.R. § 1.1206(a)(2) (1992), hereby notifies the Commission that representatives of APC today met with Commissioner Andrew C. Barrett. The matters discussed are contained in APC's written submissions in the above-referenced dockets and included, in addition, issues concerning technical matters contained in the Second Report in Gen. Docket 90-314.

Please direct any inquiries concerning this matter to the undersigned.

Very truly yours,

Kurt A. Wimmer

Attorney for American
Personal Communications

cc: Hon. Andrew C. Barrett

No. of Copies rec'd 0+1
List ABCDE

RECEIVED
NOV 24 1993
FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Low Power Limit Discourages New Technologies

"Standard" CDMA Base Station Configuration		
Exceeds 100 watt EIRP Limitation When Loaded		
Base Station TPO (10 watts)	40	dBm
Cable Losses	-2	dB
Base Station Antenna Gain	17	dBi
Effective Isotropically Radiated Power	55	dBm
316 watt EIRP		
Single 1.25 MHz CDMA Channel		
Supports 20 Users, on the average		
Empirical Base Station Coverage Radius (Urban)	<1	mile

"Standard" DCS-1900 Link Budget

Uplink			Downlink		
Mobile TPO	33	dBm	Base Station TPO	42	dBm
Cable Losses	-2	dB	Cable Losses	-2	dB
Mobile Antenna Gain	2	dBi	Base Station Antenna Gain	17	dBi
Effective Isotropically Radiated Power	33	dBm	Effective Isotropically Radiated Power	57	dBm
			500 watts EIRP		
Path Losses	-152	dB	Path Losses	-152	dB
System Margin	-5	dB	System Margin	-5	dB
Base Station Antenna Gain	17	dBi	Mobile Antenna Gain	2	dBi
Diversity Gain	5	dB	Cable Losses	-2	dB
Cable Losses	-2	dB	Mobile Rx	-100	dBm
Base Station Rx	-104	dBm			
Base Station Antenna Height	120	feet	Base Station Antenna Height	120	feet
Mobile Antenna Height	5	feet	Mobile Antenna Height	5	feet
Coverage Radius (COST231 Urban)	1.75	miles	Coverage Radius (COST231 Urban)	1.75	miles
Coverage Radius (COST231 Suburban)	4	miles	Coverage Radius (COST231 Suburban)	4	miles
Coverage Radius (COST231 Rural)	13	miles	Coverage Radius (COST231 Rural)	13	miles

NOTE: "Optimistic" coverage radii without penetration/obstruction losses.

DCS-1900 Link Budget with Smart Antenna

Uplink				Downlink		
Mobile TPO	33	dBm		Base Station TPO	42	dBm
Cable Losses	-2	dB		Cable Losses	-2	dB
Mobile Antenna Gain	2	dBi		Base Station Antenna Gain	22	dBi
Effective Isotropically Radiated Power	33	dBm		Effective Isotropically Radiated Power	62	dBm
				1600 watts EIRP		
Path Losses	-157	dB		Path Losses	-157	dB
System Margin	-5	dB		System Margin	-5	dB
Base Station Antenna Gain	22	dBi		Mobile Antenna Gain	2	dBi
Diversity Gain	5	dB		Cable Losses	-2	dB
Cable Losses	-2	dB		Mobile Rx	-100	dBm
Base Station Rx	-104	dBm				
Base Station Antenna Height	120	feet		Base Station Antenna Height	120	feet
Mobile Antenna Height	5	feet		Mobile Antenna Height	5	feet
Coverage Radius (COST231 Rural)	18	miles		Coverage Radius (COST231 Rural)	18	miles

NOTE: "Optimistic" coverage radii without penetration/obstruction losses.