

EXHIBIT 1
 (Items 4 and 13)

Item 4

<u>Bandwidth</u>	<u>Designation of Emission</u>	<u>Modulating Signal</u>	<u>Authorized Power Output (watts)</u>	<u>Necessary Bandwidth</u>
27,500 to 28,350 MHz	6M00F3D; 20M0F3F; 46M3J7D; 46M3G7D	(Note 1)	10.0 peak (Note 2)	1 GHz (Note 3)

Note 1

Signals will result as noted from combinations of the following:
 a. Analog FM
 b. Digital modems

Note 2

Maximum EIRP not to exceed 50 dBm. $\approx 47.80 \text{ dBm ERP} \approx 61.094 \text{ W ERP}$

Note 3

Item 4G: Necessary bandwidth determined pursuant to 47 C.F.R. § 2.202(g).

Item 13

The transmitting equipment to be installed includes the following prototype transmitters (all experimental): Video/Phone Endgate (4 units); Hewlett Packard (4 units) and Texas Instruments (4 units).

Exhibit 2
(Item 10)

Item 10

Local Multipoint Distribution Service ("LMDS") operating in the 27.5 - 29.5 GHz band provides a potentially attractive method for wireless distribution of video and other information and communication services to residences and businesses. The possibility that a significant portion of the 28 GHz band will be allocated by the FCC for terrestrial use makes LMDS a strong contender for broadband interactive video, data and telephony applications.

U S WEST has conducted a field trial of 28 GHz LMDS in Phoenix, Arizona during 1995. Objectives of the trial included:

1. Development of statistics for line-of-sight path availability.
 - a) Single cell systems.
 - b) Multi-cell systems.
 - c) Various transmitter/receiver heights.
2. Characterization of the propagation channel at 28 GHz.
 - a) Basic RF characteristics, including path loss and polarization isolation.
 - b) Fading, multipath, rain, and other perturbing phenomena.
 - c) Analog versus digital modulation techniques.
3. Characterization of interference effects.
 - a) Multi-cell interference.
 - b) Multi-sector interference.

As an outcome of the Phoenix field trial and further analyses of LMDS technology advancements, U S WEST proposes to install an operational 28 GHz LMDS system in Boulder, Colorado at the U S WEST Advanced Technologies facility, for further testing of LMDS system capacity and flexibility for the delivery of a variety of simplex and duplex services, as contemplated by the FCC in its current rulemaking in Common Carrier Docket No. 92-297.

Specific objectives of the 28 GHz LMDS installation are:

- To further develop an understanding of the propagation characteristics for 28 GHz signals in delivering interactive broadband video, data and telephony services;
- To facilitate selection of hardware and modulation techniques for a deployable LMDS system;
- To evaluate system performance in various service set configurations and with various system and peripheral hardware;
- To assess need for further U S WEST field testing of 28 GHz LMDS;
- To enable U S WEST Advanced Technologies to demonstrate LMDS technology to U S WEST client organizations which will provide the corporate funding to further assess the deployability and economic viability of this nascent technology, and which have specific interest in emerging broadband technologies such as LMDS wireless; and
- To further gauge potential value of the 28 GHz spectrum in anticipation of FCC auctions.

Exhibit 3
(Item 11)

Item 11

U S WEST is currently assessing the system architecture, hardware, and associated system cost elements, of three LMDS system manufacturers. Additional LMDS manufacturers may be considered. Significant work remains to ascertain the economic viability of 28 GHz LMDS as a deployable broadband interactive technology, and consequently, to ascertain the value of the 28 GHz spectrum. Accordingly, U S WEST anticipates the length of time to complete the program of experimentation described herein to be open-ended, at least 2 years in duration.