

0057-EX-ST-1998



November 9, 1998

Federal Communications Commission
Experimental Radio Services
P.O. Box 358320
Pittsburgh, PA 15251-5320

need 11/16/98

Dear Sirs,

Digital Microwave Corporation hereby requests an experimental license for a point-to-point duplex Digital Microwave link in the 23 GHz frequency band. The purpose of the link to support point to multipoint trials, (LMDS 28GHz) is being conducted by Lucent Technologies in Milpitas, California. Digital Microwave Corporation will use the link to assess the interference conditions in a mixed point-to-point and point to multipoint network and to validate theoretical performance calculations. The experiment goal is to establish sufficient empirical data in order to optimize use of Spectrum and establish firm design criteria for mixed point-to- point / multipoint networks.

The equipment details are as follows:

Manufacturer:	Digital Microwave Corporation
Model:	Spectrum II, 23 GHz
Duplelink, 2 terminals, non-diversity, protected	
Frequency to be used:	22275 MHz 23475 MHz Vertically Polarized
Nature of service:	Field Trial
Digital Line Rate 45 Mb/s	
Occupied Bandwidth:	40 MHz
Power Output:	17 dBm or 0.05 Watts
Emission Designator:	40M0F7W
Antennas:	2 ft, parabolic, High Performance, Class A
EIRP:	56.1 dBm
T/R Spacing:	1200 MHz

Location of the link: Holiday Inn, Milpitas
 37 25'20" N
 121 55'7.9" W

 Lucent Tasman
 37 24'38" N
 121 55'8.33" W

Overall Height above ground: Holiday Inn existing structure 42 meters, 3 meter
 Mast over roof level.
 Lucent Tasman, existing structure 4 meters,
 3 meter mast over roof level.

We can operate in any channel with the existing 23 GHz band. The proposed installation date is November 16, 1998. With the 28 GHz band being adopted, both domestically and internationally for Broadband point to multipoint applications, point-to-point radios will be required to support hub-site interconnect / backhand. Therefore, Digital Microwave view this experiment as being essential for the global success of the 23 GHz point to point links in this application.

Regards,



Italo E. Daza
Manager of Microwave
Transmission Engineering