

**Progress Report March 1996**

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Call Sign KQ2XBP  
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### **Dallas LMDS Experiment**

Brassboard demo system was kept in continuous use for evaluation of potential communications services that can be offered with an LMDS system.

### **Testing to Support International Technical Trials**

Brassboard Node and CPE equipment was constructed and tested in Dallas prior to conducting a technology demonstration for an international client during the October-December time frame. Telephony, data and video were transmitted over a 5 kilometer path.

Purpose of the test was to evaluate the transmission quality in heavy snow, cold temperatures, fog, and icing conditions.

### **Atlanta Technology Experiment**

Started a two way digital video technology and delivery trial to selected apartments in Roswell, Georgia. No equipment or services were marketed during this trial. Two node sites were used in the trial with one using twt amplifiers and the other solid state. Both node sites utilized phased array antennas. Customer premise equipment consisted of a 12 inch transceiver dish containing an up/down converter and transmit amplifier. This equipment had previously been built and tested in our North Texas facilities. Equipment was Underwriters Laboratory certified and tested to verify compliance with FCC Part 15.

Approximately 25 apartments were included in this trial, using approved equipment in the apartment. Trial proved that video delivery based on LMDS technology was technically feasible.

Tests included approximately 270° (degrees) of coverage with base transmitter sectors (equivalent 3 each of 90° sectors)

Frequencies used spanned the 27500-28500 MHz range. Maximum transmit power was 1 W/carrier.