

0263-EX-ST-1999



Ensemble Communications Inc.

August 12, 1999

6256 Greenwich Drive

Federal Communications Commission
PO Box 358320
Pittsburgh, PA 15251-5320

Gentlemen:

S u i t e 4 0 0

Ensemble Communications Inc. ("Ensemble") hereby requests Special Temporary Authorization to operate an DEMS point-to-multipoint field trial test system in San Diego, California, for a limited period of time, to develop and test equipment.

Ensemble's business primarily consists of developing, manufacturing and providing wireless communications systems and related products and services. Our company employs approximately 45 people in the United States and 20 people abroad and has raised equity capital in excess of \$17 million.

S a n D i e g o

Ensemble plans to offer a complete system solution to carriers in the LMDS, DEMS and other Broadband Wireless Access (BWA) markets. Our company is currently developing a BWA system for integrated, two-way digital communications that can offer high-speed data, Internet access, advanced telephony services, and video.

C A 9 2 1 2 2

The technical specifications of the operation are listed below, in accordance with Section 5.56. A FCC Remittance Advice form and a fee payment of \$45 are attached.

P h 619.458.1400

1. Applicant name and address

Ensemble Communications Inc.
6256 Greenwich Drive, Suite 400
San Diego, California 92122
Attn: Bill Simpson

F a x 619.458.1401

2. Need for special action

An STA is requested to allow equipment testing and demonstration in the 24 GHz DEMS band. Ensemble plans to file an application for an Experimental License in the DEMS band between 24,250 MHz and 25,250 MHz if extended testing is required.

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3. Type of operation

Propagation testing and link measurements of prototype equipment.

4. Purpose

Testing and demonstration of prototype DEMS equipment

5. Time and date

October 1, 1999 until March 31, 1999 or the issuance of an Experimental License.

6. Class and nature of service

Fixed nodal (hub) and user (remote) stations, experimental

7. Location

Within 5 miles of 6256 Greenwich Drive, San Diego, California.
Operation will not take place in residential areas.
[Latitude: 32.85566; Longitude: 117.18261]

8. Equipment

Ensemble prototype DEMS band point-to-multipoint transceivers.

9. Frequencies

Authority to operate on DEMS channel numbers 35 to 39 is requested, Nodal Station 24,250-24,450 MHz and User Station 25,050-25,250 MHz. Ensemble's transceivers use TDD, Time Division Duplexing. For this reason we request authorization to transmit and receive Nodal and User station traffic on both sides of the frequency pairs.

Ensemble will coordinate with the existing licensee to avoid interference.

The frequency stability requirement in section 101.507 will be met.



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10. Power

The maximum output power of each transmitter will be 30 dBm. The maximum EIRP per channel at the nodal or hub site will be 47 dBm. The maximum EIRP of the user or remote site unit will be 65 dBm.

The nodal or hub station will use 60 or 90 degree antennas with a gain of approximately 17 dBi. The remote or user stations will use a parabolic antenna with a nominal beamwidth of approximate 3 degrees and a gain of approximately 35 dBi.

11. Type of emission

The system operates with multiple carriers where each carrier is 25 MHz wide. QPSK, 16QAM and 64QAM modulation will be used.

12. Height of antenna

Antennas will be mounted on building rooftops attached to existing structures. If any new antenna support structures are erected, they will not exceed the height of any existing structures on the rooftops.

For additional information regarding this request please contact Bill Simpson, VP Customer Support, at 858-535-2825.

Sincerely,

Ensemble Communications, Inc.

A handwritten signature in black ink, appearing to read "Sheldon Gilbert", written over a horizontal line.

Sheldon Gilbert
President