

FCC FORM 442 - FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR NEW OR MODIFIED RADIO STATION UNDER PART 5 OF
FCC RULES - EXPERIMENTAL RADIO SERVICE (OTHER THAN BROADCAST)

Attachments page for Form 422

Confirmation Number: EL663745

File Number: 0179-EX-PL-2005

NOTE: When submitting this exhibit, please enter "QUESTION 7: PURPOSE OF EXPERIMENT" in the description field and select the type of document as "Text Documents".

If all the answers to Items 4, 5, 6 are "NO", include as an exhibit a narrative statement describing in detail the following items:

- a. The complete program of research and experimentation proposed including description of equipment and theory of operation.
- b. The specific objectives sought to be accomplished.

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The complete program of research and experimentation proposed including description of equipment and theory of operation is as follows:

The purpose of the program is to test 4.940 – 4.990GHz public safety multi-point wireless broadband data equipment in a real market environment.

The equipment will be installed in an outdoor configuration, building or tower top, and will be configuration to interconnect police, fire, or traffic control systems in a live test with these objectives:

1. Verify range and performance in LOS and NLOS propagation environments
2. Verify data throughput with a variety of data loads
3. Verify data priority queuing of critical vs. non-critical traffic
4. Verify integration into NOC management systems and methods
5. Verify latency impact on public safety applications

The RF specifications are as follows:

Modulation type	TX power (dBm)
1-5	21
6	20
7	19
8	17

Channel bandwidths are: 20Mhz, 10Mhz, and 5Mhz

Operating minimum and maximum channels @20Mhz: 4952.5, 4957.5, 4962.5, 4967.5, 4972.5, 4977.5.

NOTE: When submitting this exhibit, please enter "MODULATING SIGNAL DESCRIPTION". In the exhibit description.

Insert as appropriate for the type of modulation:

1. The maximum speed for keying in bauds;
2. Maximum audio modulating frequency;
3. Frequency deviation of carrier;
4. Pulse duration and repetition rate.

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For complex emissions, submit an exhibit describing in detail the modulating signal and indicate the frequency range that it is associated with.

System is working at OFDM and using BPSK, QPSK, Qam16 and Qam64 modulation types.

- Frequency in use: 4950-4990
- Channels width: 5Mhz, 10Mhz or 20Mhz all within the range of the frequency in use.