

**Air Broadband Communications, Inc.**



Phu Thieu,  
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Office of Engineering and Technology  
OET Experimental Licensing Branch  
Federal Communications Commission (FCC)  
445 12<sup>th</sup> Street SW  
Washington, DC 20554

Dear Sir/Madam:

This is to follow up on the email request for additional information to clarify the testing and purpose of frequency in regarding to the Experimental Frequency Licensing application form 422 of **File Number: 0257-EX-PL-2005**.

Air Broadband Communications, Inc. (ABC) is a high tech start-up locates in San Jose, California, specialized in developing equipment for the wireless IP market using the WiMAX (IEEE 602.16d) specification. ABC is developing new WiMAX Base Stations using *IEEE Std 802.16<sup>TM</sup>-2004*.

The base station we are developing will transmit radio signal in 360-degree emitting:

1. OFDM modulated signal at,
2. Center frequency of 3.45GHz, and
3. Bandwidth requirement of 7MHz,
4. Maximum power at the Transmitter Output = 20dBm (100mWatt)
5. Maximum Effective Output at the antenna is 37dBm (5 Watts) using antenna gain of 17dBm

The testing consist of a single base station with antenna installed on the building roof at ABC office and the single remote subscriber station locate within 20 miles radius from the base station. The test information consist of Ethernet IP traffic generate and received by 10/100Mbps Ethernet/IP analyzers and internet web browsing Internet traffic from the lap top computer connected to the subscriber station via the base station.

The radio from the base station only turn-on during the test periods between one base station and one subscriber station to test for end-to-end functionality over air. The base station radio will be turned-off while the test is not running. The system level over-air test is scheduled to start in December 2005.

I hope this letter provide sufficient information for the application. Please let's know if additional information is required. Thanks again for your help and cooperation.

Sincerely,

Phu Thieu  
System Test Manager