



AT&T Labs, Inc.

January 26, 2009

Ms. Nancy Hey
Experimental Licensing Branch
Office of Engineering and Technology
Federal Communications Commission
445 12th Street, SW - 7th Floor
Washington, DC 20554

RE: Progress Report Number Thirty-three
License holder: AT&T Labs, Inc. (formerly SBC Labs, Inc.)
Call Sign: KM2XBI

Dear Ms. Hey:

In accordance with the FCC's Rules and Regulations Part 5, Section 5.204(b), we are hereby reporting on the use of the electromagnetic spectrum under the above experimental license issued to AT&T Labs.

Our usage under this license in 2008 has been as follows:

- 1) Transmission in Austin, Texas, to validate propagation and operational characteristics of fixed wireless access systems. These systems were on during most of the year 2008 whenever experimentation and data collection sessions were being conducted (and except during power outages or for equipment maintenance).

System 1: TDD; EIRP 46 dBm Base, 23 dBm CPE.

Transmitting Site Lat/Lon Coordinates:

Base Location	North Latitude	West Longitude	Ground Elevation (feet MSL)	Antenna Height (feet AGL)
Arboretum	30.390997	97.752164	800	120
Jollyville	30.397450	97.750238	800	25

Transmitting Site Frequency and Directional Information:

System	Location	Azimuth (deg. True)	Freq. (MHz)	BW (MHz)	Downtilt (degrees)
1	Arboretum	12	2357.5	5	1
1	Jollyville	178	2312.5	5	0
2	Arboretum	12	2352.5	5	1
2	Jollyville	178	2352.5	5	0

For system 1, a test CPE was also placed inside a van to take measurements and test the operation at a range of up to 3 miles north, and up to 30 degrees to the east and west of the Arboretum base station site. A CPE was also placed at the Jollyville location for the same purposes of taking measurements and testing the system operation.

- 2) Transmission in Middletown, New Jersey, to evaluate the co-channel interference performance of Ceragon 1500P point-to-point LMDS band microwave radios. This trial was conducted in the Oct 15, 2008 to Dec 1, 2008 time interval.

Transmitting Site Lat/Lon Coordinates:

Location	North Latitude	West Longitude	Ground Elevation (feet MSL)	Antenna Height (feet AGL)
Building C (link 1)	40°-23'-46.6"	74°-08'-02.7"	90	80
Building A (link 1)	40°-23'-52.3"	74°-08'-09.5"	90	70
Building C (link 2)	40°-23'-46.6"	74°-08'-02.7"	90	78
Building A (link 2)	40°-23'-53.2"	74°-08'-08.0"	90	70

Transmitting Site Frequency and Directional Information:

Location	Azimuth (deg. True)	Freq. (MHz)	BW (MHz)
Building C (link 1)	317.6	27725	50
Building A (link 1)	137.6	28175	50
Building C (link 2)	328.5	27725	50
Building A (link 2)	148.5	28175	50

During the course of the experiment various EIRP transmit powers up to a maximum of 56.5dBm were used. The paths and transmissions were also co-ordinated with Nextlink Communications as the LMDS license holder in Middletown, NJ.

Please direct any inquiries to me at 512-372-5818.

Sincerely,

A handwritten signature in black ink that reads "David R. Wolter". The signature is written in a cursive, flowing style.

David Wolter
Executive Director, Wireless Networks
AT&T Labs, Inc.
9505 Arboretum Blvd.
Austin, TX 78759
(512) 372-5818