

Before the
Federal Communications Commission
Washington DC 20554

NARRATIVE STATEMENT OF AMBIENT CORPORATION
IN SUPPORT OF APPLICATION FOR MODIFICATION TO
EXPERIMENTAL LICENSE WD2XEQ

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NARRATIVE STATEMENT OF AMBIENT CORPORATION
IN SUPPORT OF APPLICATION FOR MODIFICATION OF
EXPERIMENTAL LICENSE WD2XEQ

In this application, Ambient Corporation ("Ambient") requests that its experimental license be renewed for a two year period to provide for continued testing and development of Ambient's Powerline Communications Systems over power distribution facilities under Call Sign WD2XEQ. This statement provides justification and details of the requested modifications.

1. Summary of Ambient's Ongoing Testing

Ambient is the developer of proprietary technology to provide Internet access via a carrier current system by means of conduction over electric power lines. For more than three years, Ambient has been conducting testing at a site in Westchester, NY originally pursuant to STA, WB9XQT,¹ and more recently at this and other locations pursuant to this experimental license, WD2XEQ.² Additional details regarding the locations and product development under its experimental license can be found in its Progress Reports filed September 3, 2004 and March 3, 2005.

2. Justification for Renewal

Grant of the proposed renewal will serve the public interest as follows:

a. *Collaboration with Power Companies.* Ambient continues to have requests to consider testing its systems from a number of power companies around the country. Cooperation and collaboration by power companies is essential for future BPL commercial

¹ See File Nos. 0218-EX-ST-2002 and File No. 0435-EX-ST-2002).

² File No. 0118-EX-PL-2003.

deployments. These power companies often require on-site demonstrations to gain familiarity with equipment compatibility, functionality on their systems, and the range of potential consumer uses which they can serve.

b. *Further Engineering Development.* From an engineering development viewpoint, Ambient continues to test its equipment on various power systems, which may use different types equipment and be affected by different environmental or other factors. Testing of the same equipment on various power-systems will provide valuable data to the Commission. Further, this would allow emissions compliance testing of similar equipment in a variety of residential settings.

3. Conclusion

As the Commission recognized in its Report and Order³ on BPL, because power lines reach virtually every home in the U.S., BPL could play an important role in providing additional broadband competition to consumers, and could bring Internet and high-speed broadband access to rural and underserved areas, areas typically underserved by existing technologies. Given this imperative, grant of the renewal requested here will serve the public interest by supporting the report and widespread development of this major new medium for broadband service delivery.

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³ Access Broadband Power Line Systems, Report and Order (FCC 04-245), in ET Dkt. No. 04-37/04-104 released October 28, 2004.