

Exhibit to Experimental License Application

Current Technologies, LLC (“Current”) is a limited liability company that develops and manufactures technology and equipment to transmit telecommunications over electric utility power lines, subject to the carrier current regulations of Part 15. The license sought herein will cover the demonstration of equipment to potential customers, testing and evaluation of equipment to determine compliance with equipment authorization requirements, and related activities. While generally Section 2.803(e) of the Commission's rules provides that Part 15 devices may be tested and demonstrated in commercial and industrial areas without an experimental license, electric power lines extend into residential areas. Consequently, this application covers such activities involving Part 15 devices that are not exempt from experimental licensing under Section 2.803(e). Current seeks experimental authority to test its carrier current systems and component equipment in three different locations in selected areas within the states of Ohio, Indiana, and Maryland.

Current's carrier current systems include:

- electric power line home networking products already authorized as computer peripheral devices under Part 15;
- devices using the same chip sets as home networking products but packaged for outdoor deployment; and
- other devices operating on a variety of frequencies and using a variety of transmission techniques.

Since these carrier current systems are unintentional radiators, it is appropriate for the license to cover the relevant frequency band (1.7 MHz to 80 MHz), but it is not appropriate for the license to cover any particular power levels or emission designators.

All activities under this license will be controlled by Current employees and the employees of the electric power utility companies that operate the networks hosting the carrier current systems.

In addition to verifying compliance with Part 15 limits, Current plans to undertake a series of tests in various locations that will investigate:

- the antenna properties of electric power utility networks, including where the near field ends and the far field begins;
- signal strengths of radiated signals at varying distances and heights;
- the outdoor performance of home networking products and products developed for outdoor networking;
- radiation differences between above-ground and underground power networks;
- testing of networking products and systems for safety and regulatory compliance.

These tests and demonstrations will enable Current to develop the first generation of carrier current systems deployable over existing electric distribution networks for the delivery of broadband telecommunications services and provision of advanced electric utility services (e.g., automatic outage detection and remote meter reading).