

To : Federal Communications Commission
From: : Lance Rosen, Electric Broadband
Re : Experimental License Application
Date : March 1, 2004

The applicant herein, Electric Broadband, is an integrator of Broadband over Power Line (BPL) systems to deliver high-speed Internet access over the electric grid. Electric Broadband would like to conduct a BPL test with respect to the delivery of high-speed Internet access and related broadband services over the medium- and low-voltage lines in the Cottonwood, AZ area. Accordingly, we submit the following information regarding the trial:

- Geographic Area – The test area is Cottonwood, AZ
- Frequency Range – 2.46 to 38 MHz.
- Time Period – Six months
- Number of customer premise units – 10
- Number of pieces of additional equipment on low- and medium- voltage lines: Under 15
- Equipment Description – The equipment in use will be from Mitsubishi Electric Power Products. Projected equipment use includes 10 Medium Voltage Nodes and Repeaters to inject and repeat the signal onto the medium voltage lines, 20 coupling units to interface between the electric grid and the BPL equipment, and 10 customer premise modems. While the number of customer premise units is not projected to increase at all, the number of other units may increase or decrease slightly based on the specific layout of the grid and the location of customers.
- Installation Description – Mitsubishi's BPL equipment will be deployed and tested on the medium- and low-voltage lines in the Cottonwood, AZ area. A total of ten customer premise locations will be Internet enabled through this trial.
- Technical Testing – The trial will be used to evaluate utility communications, customer acceptance and FCC compliance. The trial will be in compliance with Section 15.109 of the Rules.
- Marketing Description – BPL services will be made available to a total of ten customers, comprised of residential and commercial units. Customers will receive service at no charge to volunteer trial participants. Marketing information will be gathered regarding customer perceptions on ease of use and other system performance characteristics.