To : Federal Communications Commission
From: : Glenn Purcell, GreyStone Power Corporation
Re : Expertimental License Application
Date : July 5, 2005

The applicant herein, GreyStone Power Corporation, is an Electric Utility Cooperative. GreyStone Power Corporation 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 Douglasville, GA area. Accordingly, we submit the following information regarding the trial:

- Geographic Area – The test area is Douglasville, GA
- Frequency Range – 2 to 34 MHz.
- Time Period – Six months
- Number of Customer Premise units – 20
- Number of pieces of additional equipment on low and medium voltage lines: 28 MV and 3 LV Nodes
- Equipment Description – The equipment in use will be from Mitsubishi Electric Power Products (MEPPI). Projected equipment use includes 28 Medium Voltage Nodes and 3 LV Repeaters to inject and repeat the signal onto the medium voltage lines, 36 coupling units to interface between the electric grid and the BPL equipment, and 20 customer premise modems.
- Installation Description – Mitsubishi's BPL equipment will be deployed and tested on the medium- and low-voltage lines in the Douglasville, GA area. A total of twenty Customer Presmise 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 initially be made available to a total of twenty customers, comprised of residential units only. 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.
- The equipment utilized is as follows:

    1. 28 Medium Voltage (MV) Nodes each comprised of a 1) MV card and 2) LV card. This unit houses both the MV and LV connectors.
    2. 3 Low Voltage (MV) Nodes.
    3. This experiment will include twenty residential participants. As such, there will be 20 CPE devices used at the trial participant premise (one CPE per participant).
    4. We will use both capacitive and inductive couplers on the MV and LV as follows:

        a. 36 MV Inductive and Capacitive Couplers

b. 20 LV Capacitive Couplers