

To: The Commission:

The desire to supply the benefits of the internet to all is commendable. The American people are already taxed through various surcharges on telephone bills for this purpose.

I believe your enthusiasm for employing the nation's electrical power distribution system for Broadband Over Power Lines (BPL) is erroneous and ill-conceived. It will most assuredly result in increased costs for providers, and thus consumers, as providers seldom fail to pass expenses on to the consumer.

Interference for a great number of public and private radio services will surely result if the concept is permitted to expand and grow in scope and allowable power levels of BPL distribution devices are permitted to be increased beyond what the experimental levels are at this time.

Also, please bear in mind that only the energy required to DISTRIBUTE the service has been the forefront of consideration. What amount of power will it take AT THE CONSUMER'S LOCATION to get his keyboard entries and requests BACK to the provider?? If there are ten thousand consumers each allowed one watt, and all ten thousand hit "enter" at the same time, you have a ten kilowatt burst of energy being released back into the system.

The power distribution system is at best imperfect. Telephone lines and cable signals are either reasonably well-shielded or balanced in order to minimize radiated interference. They are not subject to corrosion or deterioration due to weather.

Not so for power lines. A corroded connection point can rectify signals and thus create a plethora of frequencies well-removed from those which are supposedly cleanly passing through the connection. These unwanted signals can easily occupy frequencies and thus interfere with radio services in decidedly different parts of the radio spectrum. The potential for an RF Nightmare is evident.

The commission has issued hundreds of thousands of licenses to services in the HF spectrum which are served on a "primary" basis, which in essence guarantees that said services will be protected from interference by other services. Could it not be said that the commission would be contradicting itself by permitting BPL and its almost certain broad-spectrum "radio noise" to subordinate the non-interference policy?

Once upon a time the Commission removed the 27 megahertz band from the Amateur Radio Service and Awarded it to the Citizen's Band Service, and required licenses, regulations, etc., to control the CB service. But, it got away, and the Commission ultimately threw up its hands and gave up, as it became uncontrollable. Is it possible that BPL is another of those great ideas that looks so good on the drawing board, yet will become a monster once it is unleashed?

Why not consider distributing electrical power over the cable infrastructure? A whole new industry could be created, and Comcast Toasters would be the envy of the neighborhood.

I think not. Please strongly consider leaving power distribution to the power companies, and leave broadband distribution to those with the properly SHIELDED facilities. I sincerely believe millions of

Americans would be most appreciative.

Respectfully Submitted,

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