

5005 Hansen Lane
Rapid City SD 57703
September 15, 2003

To:
Federal Communication Commission
& To Whom it May Concern

RE: Broadband Over Power Lines (BPL) 03-104

While the cost effectiveness, and other positive factors of Broadband Over Power Lines to provide high-speed internet and other services to almost anyone on a power line grid may seem to be good, there are however, some very severe conditions that happen to follow along should such a service be implemented.

Information stating from various sources indicated that the operational power would be above unlicensed and unintentional transmitter limits as stated in Part 15 of the FCC rules for unlicensed and unintentional transmitters. Also stated is the operating frequency will be between 0-80MHz from those sources. While most of today's average consumer devices operate exteriorly above that range, we must bare in mind that most of those devices operate internally within these ranges. Not to mention that such a service will interfere with licensed operators' receivers and transmitters within the specified frequency range. The Local Oscillator (LO) in MANY consumer devices happens to be within that range. Millions of Cellular Phones, Car broadcast band Radios, AM/FM walkmans, Boom boxes, Televisions and countless thousands of intentional and non-intentional receivers and transmitters will be affected. The LO for most devices happens be 7MHz, 10.4 MHz, and 21.4MHz. With the infection of interference from the purposed BPL service to licensed transmitters, they will then malfunction and emit spurious emissions causing even more interference to other devices.

With a Broadband over Power Line service that will have transmission lines all over the country, those power lines will act as radiators between the frequency range of 0-80MHz, which stated above will be the supposed operating range for the BPL. This will also cause millions of Military, Government, and Consumer devices to not perform and/or cause mayhem of unimaginable level. Noteworthy would be to mention how many of millions of complaints the FCC and other governing agencies would get because of the interference BPL would create.

While the BPL service does sound like a good idea, it does have it cons that do need to be worked our before being implemented. Perhaps another type of broadband service will need to be brought fourth that will not caused as much Havoc.

Respectfully submitted,

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