

Dear FCC,  
First, I appreciate the Federal Communications Commission (FCC) extending the time for comments on the Engineering and Technology Notice of Inquiry Docket No. 03-104 regarding Carrier Current Systems, including Broadband over Power Line (BPL) Systems to August 20, 2003.

As a licensed extra class amateur radio operator, FCC call sign AC7XZ (I also have a Japanese amateur license with callsign JE2QIZ as 1st class), I am very concerned with the spectrum pollution (interference) associated with the new broadband over power line technology the FCC is considering for approval for use by the power line industry.

Not only spectrum pollution, but also BPL causes strong influence to the equipments which are connected to the power line. That is strong EMC problem. Almost all of the electrical equipments are NOT designed to endure such a interfere. That causes big social problems. If you use something kinds of equipimnets which relate human lives or medical instruments, with BPL power line. How do you think about it? Maybe you remove BPL as soon as possible.

In August 2002, Japanese ministry announced that "at this stage, increasing the frequency bandwidth that is used in power line communications would be difficult, and proposed that qualification be put in place to implement feasibility tests in areas such as promoting modem research and development;"  
[http://www.soumu.go.jp/joho\\_tsusin/eng/Releases/Telecommunications/news020809\\_3.html](http://www.soumu.go.jp/joho_tsusin/eng/Releases/Telecommunications/news020809_3.html)

Because medium/low voltage mains of current technology radiate large amount of emission when it is driven by RF signals, MPHPT study group reached the above conclusion.

Some measurement results are presented at The 7th International Symposium on Power Line Communications and Its Applications on March 2003 (Kyoto, Japan) and available from  
<http://www.qsl.net/jh5esm/>  
Some disturbance examples of existing HF broadcasting and standard A3E signals are also located at this site.

By observing these results, current BPL technology -- mainly not the modem, but mains -- would become the source of HARMFUL INTERFERENCE to existig radio communication services including broadcasting, amateur, mobile, radio astronomy and so on.

I sincerely hope that FCC take my comments into acount for consideration.

Regards,  
Akio TAGUCHI