

Gentlemen,

The 03-104 Broadband internet over power lines proposal will create significant interference to a broad frequency range (from 3 to several hundred Mhz). As a result several services will be impacted. These include shortwave broadcast, WWV and amateur radio.

Specifically, interference with WWV will impact the capability of “Atomic” clocks to synchronize in low signal strength conditions. Foreign broadcast stations are often low level signals and similarly the BPL interference would obliterate these signals.

As indicated in the ARRL video clip the BPL test areas, the levels received on a mobile antenna are 50uV or larger across the whole 3-30 Mhz spectrum. This signal level eliminates 90% plus of the capability of amateurs to communicate. The only presently viable response to this situation is for the amateur to increase power, which in turn increases the probability of interference throughout residential areas. This situation would present a barrier to new amateurs resulting in the following:

1. An avenue of stimulating interest in electronics would be closed with the resulting decrease of young people entering technology.
2. The volunteer activities related to Red Cross, Salvation Army, ARES, RACES etc would not have adequate staffing
3. The emerging activity relating to homeland defense would be significantly impaired.

Since it is possible to communicate around the world with a few hundred milliwatts, the fact that BPL would have thousands of transmitters and tens of thousands of miles of antennas, the probability of creating a world wide interference is extremely high.

For all of the above reasons and I'm sure others I request that you reject the BPL 03-104 proposal.

Sincerely,

Robert J. Scheib

Regulatory Engineer

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