

To Whom It May Concern,

I am writing in regard to the proposed Broadband over Power line system. I have been in the communications industry for 13 years specializing in radio communications and have been a Ham radio operator for 14 Years.

I would strongly dispute any claim made by companies proposing such a system that the system does not cause interference to other users. Using HF frequencies over unshielded power lines can and will emit RF, there is simply no way for it not to.

This system will emit so much RF that many HF frequencies will be unusable not only for Amateur radio but for NTIA and SWL users as well. During a time when national security is such a high priority and homeland security is now a household word is not the time for the government to pander to large corporate money and destroy the valuable HF spectrum.

Recent studies by the ARRL and others point to the FACT that these systems emit a great deal of harmful interference to the point the spectrum becomes essentially unusable.

As a regular user of the HF spectrum I can testify that it is hard enough to eliminate interference from power lines without trying run RF over them. Technically speaking it would be nearly impossible to run RF over non-shielded conductors and not emit RF from them. Then to try this over miles of conductors whose maintenance is highly suspect anyway is absurd! It simply cannot be done without destroying that spectrum.

Also the harmonic inference this system will achieve will reach staggering levels. As a technician for a state law enforcement agency I must protest the adverse effects this will have on radio systems we use for public safety.

For example; A radio using the frequency of 155.46Mhz will undoubtedly receive harmonic interference from a system that can send RF up to 80 MHz over unshielded power lines. A frequency of 51.82 MHz WILL emit harmonics of 155.460 MHz without the proper shielding and filtering which power lines just CANNOT offer.

I respectfully submit that the FCC declines any proposals to use RF over unshielded conductors. The facts are there from a technical and scientific point that the system will simply cause too much interference to HF as well as VHF users.

More households do need a higher speed connections source for Internet use but this is not a plausible solution.

Respectfully

Jack Myers
Communications System Analyst 2, Oregon State Police
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