

Based on my experience in network engineering and HF radio operation I believe that BPL will cause significant interference and degradation to HF spectrum users including the amateur radio service. Already as a mobile operator, I experience large areas of operation around our small city where I can not hear moderate strength AM BCB signals or HF amateur signals of moderate strength due to radiation from poorly shielded computer systems (supermarket) or digital hash propagated down the powerlines. My experience is that even systems that offer low interference when properly installed, behave much worse in the 'real world' where installation practices are often shoddy, maintenance is poor, and cost is the main driver. Witness the problems to aviation navigation from CATV systems which eventually required the 12.5 khz offset rules. If Broadband over Power Line comes to fruition I expect a significant spoiling of the HF spectrum, and a lot of mutual interference and antipathy between BPL users suffering from HF ingress from nearby transmitters, and hams and other HF users such as government and disaster communications suffering from wideband receive interference. This has the potential to be a major can of worms, especially for radio systems in the HF spectrum. I recommend BPL be rejected by the commission.