

Director General
Spectrum Engineering Branch
Industry Canada, 300 Slater Street
Ottawa, Ontario, K1A 0C8

November 1st, 2005

Bell Canada Contribution to Industry Canada-Radio Communication Act

Comments on Gazette Notice SMSE-005-05 – Consultation Paper on Broadband over Power Line (BPL) Communication Systems

Bell Canada would like to comment on Industry Canada intent to facilitate the deployment of BPL technology in Canada, as described in Gazette Notice SMSE-005-05 – Consultation Paper on Broadband over Power Line (BPL) Communication Systems.

Bell Canada would like to bring to your attention the potential impact of spectral interferences when the BPL technology is deployed in proximity with the DSL (Digital Subscriber Line) technology. These interferences could degrade the performance of DSL systems, and therefore, could result in an unacceptable quality of service. Systems based upon the DSL standards are providing service to customers throughout most of the Bell Canada territory as well as major Canadian providers' territory. Great care was taken in the development of the DSL standards, as well as in its deployment in the field, to assure reliable service in the presence of known transmission impairments including crosstalk between DSL systems, and radio frequency from radio systems.

Bell Canada would like to ask Industry Canada to look closely to this matter, and to assure that due consideration will be given during the consultation process of Broadband Power Line (BPL) deployment to address the acceptable operation of DSL systems in proximity with BPL systems.

DSL technical specifications and requirements on transmitted signals and frequency bands are described in the following documents:

- ADSL (ITU-T Rec. G.992.1 and G.992.3) - 25 kHz to 1.104 MHz
- ADSL2plus (ITU-T Rec. G.992.5) - 25 kHz to 2.208 MHz
- HDSL (ITU-T Rec. G.991.1) - 0 to 400 kHz
- SHDSL (ITU-T Rec. G.991.2) - 0 - 750 kHz
- VDSL (ITU-T Rec. G.993.1) - 25 kHz to 12 MHz
- VDSL2 (ITU-T Rec. G.993.2) - 25 kHz to 12 MHz (for profile 12A) or up to 30 MHz (for profile 30A)
- Industry Canada – TAPAC – CS-03 – Part 8

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