



Nov. 25, 2022

To: , Standing Committee on Environment & Sustainable Development

**Subject: Priority Bill S-5 Amendment: Collect Data and Research Environmental Effects of Wireless, Microwave Radiation.**

Dear ,

We appreciate your efforts to rigorously review Bill S-5, so that current science will be applied to preventing and tracking the enormous impacts 21<sup>st</sup> century pollutants. Of great concern to Canadian Educators for Safe Technology (CE4ST) is the progressively devastating impact that radiofrequency electromagnetic radiation (RF-EMR) is having on the environment, pollinators, plants, animals, and the most vulnerable members of society including children in daycares and schools.

As the Director of a national not-for-profit organization, Canadian Educators for Safe Technology (CE4ST), I work with students, teachers, staff, and parent volunteers who have been adversely impacted, with long term injuries, resulting from RF-EMR exposures in schools.

Although there are well-established relationships between RF-EMR exposure and adverse biological symptoms, Health Canada's Safety Code 6 (SC6) guidelines do not yet reflect this knowledge to protect humans. Non-humans are also vulnerable, but Canada has not assessed nor regulated RF-EMR to protect the environment. We can no longer afford to ignore extensive scientific evidence that RF-EMR probably contributes to substantial declines in biodiversity. We urgently request that civil service rigorously, transparently, and expeditious study the impacts of RF-EMR on all species, with an emphasis on the most vulnerable.

**CE4ST supports the amendments proposed by Prevent Cancer Now (PCN) to include RF-EMR in Section 44 of CEPA, for data collection and study.** This would guide urgently needed modernization of Canadian law, policy, and guidelines.

We are also concerned that fast-tracking Bill S-5 does not give ENVI Committee members the time to understand necessary modernization of CEPA to act on the basis of today's science on mechanisms of toxicity. This includes investigating RF-EMR as well as applying modern toxicology to substances.

**CE4ST implores the Committee to take the necessary time to adequately evaluate the concerns presented by PCN and CELA, with efforts reflecting the gravity of current environmentally induced harms that should be prevented under Canada's central environmental protection statute.**

Respectfully submitted, (see addendum)

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## Appendix A

According to the World Health Organization (WHO), EMR is one of the fastest growing environmental influences. With the exponential increase of wireless exposures blanketing the earth, a growing number of people are becoming concerned that electromagnetic pollution is the only environmental pollutant that is not subject to regulation and untested EMR devices continue to flood the market making their way into homes and classrooms.

With the rapid and unprecedented increased RF exposures in schools and communities, environmental protection is now more than ever, urgently required. Under Bill S-5, CEPA must thoroughly assess real life RF exposures and impacts on vulnerable persons, examine current scientific research (adverse health effects well below sanctioned health guidelines) and investigate medical reports/knowledge.

**We are gravely concerned about the rapid speed of this committee study and urge committee members to devote the time required to fully comprehend the nature of RF-EMR impacts on the environment, wildlife, pollinators, plants, and vulnerable persons including young children and environmentally sensitive staff (like myself, physician diagnosed) in daycares and schools.**

**Rigorous Assessment is Required for an Environmental/Health Recovery Outcome:** Because of the enormity of RF pollution, a thorough assessment and careful evaluation of RF-EMR impacts on the environment, as well as human and non-human species is required to decelerate and reduce previous harm, promote recovery, and improve environmental and public health.

**Update Scientific Scope:** It is essential the Committee update scientific scope for decision making and environmental protection to address current and future environmental challenges. Regulations must be founded on current, modern scientific understanding and methods so Canada shifts to safest solutions and products, enforcing manufacturers to follow suit.

### The Problem

**I am aware of no other law which protects our most vulnerable members of society from RF exposure:** Children are more vulnerable to “environmental agents” (Health Canada) and yet they are exposed to a lifetime of unprecedented outdoor and indoor microwave exposures in schools and communities. Exposure to RF emissions enables each child to participate fully in society. **No child should have to endure a lifetime of wireless-induced illness and isolation when safer substitutes and safe tech practices are viable alternatives in public schools.**

Children who are exposed to modulated, anthropogenic microwave radiation six hours a day five days a week from a multitude of outdoor and indoor sources including exposures from Wi-Fi access points, mobile devices and cell towers are often exposed to additional radiation at home.



Respectful [safe tech practices and wired devices](#) foster optimal health and focused learning in Canadian classrooms. Wired technologies [are inclusive](#), energy efficient [and cost efficient](#). It promotes caring, responsible citizens, who respect themselves, others, and the environment.

**Reported RF-EMR Induced Injuries are Ignored/Dismissed. No Accommodations Provided:**

Public health guidelines must be modernized to promote accommodations for physician diagnosed electro hypersensitive (EHS) or electromagnetically disabled students and staff. Safety Code 6 (SC6) erroneously suggests EHS (electromagnetic hypersensitivity) is not induced by electromagnetic signals in the microwave range. This unfortunate SC6 claim enables employers to willfully ignore accommodation needs or justify refusal to use wired substitutes which would accommodate vulnerable persons experiencing microwave sickness.

**Environmentally Disabled/Electromagnetically Hypersensitive (EHS) Persons are Forced to Leave Schools or Experience Additional, Sometimes Intolerable Injury:** Children and staff who have become environmentally sensitive, or permanently injured by microwave exposures in schools can experience intolerable or debilitating symptoms, often impacting, but not exclusively, the heart or brain.<sup>1 2</sup>

**It is unethical to enter another decade of grievous microwave induced injuries/harm:** Ignoring safer, wired substitutes will continue to significantly, adversely impact the lives of vulnerable children and staff in schools and potentially create long-term health effects, which are still unknown in the larger population.

**The Solution**

**Modernized Health guidelines can prevent another decade of grievous injuries and potential group litigation, create opportunities for employment, inclusion, respect, compassion and equity for vulnerable EHS students and staff in classrooms and in public.**

**RF Health Guidelines Can be Modernized With Safe Tech Practices:** Some schools have reduced the power density of RF emissions by 20% practising the ALARA Principle (As Low as Reasonably Achievable – to maximize device efficiency).<sup>3</sup> Safe tech practices (download data & use airplane mode, etc.) promotes respect for EHS disabled persons and health for everyone.

**Safer Wired Substitutes:** Canadian laws must lead by example, the “Precautionary Principle” to promote/enforce safer, wired substitutes, which can follow “phase in” timelines. Wired technology is superior. Wired systems are safer, more energy efficient (10x more efficient than wireless). They provide consistent data transmission and protect data privacy (underaged children). Wired technology provides accommodations, inclusion, and employment equity.

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<sup>1</sup> <http://www.safeinschool.org/2013/06/please-help-ehs-children-with-legal.html>

<sup>2</sup> <https://www.cbc.ca/news/canada/toronto/ont-parents-suspect-wi-fi-making-kids-sick-1.894145>

<sup>3</sup> Wired Substitutes and Safe Tech Practices for schools: <https://www.techsafeschools.org/>



Courts in the UK have already established that electromagnetic hypersensitivity (EHS) exists and accommodations for EHS disabled students and staff are required. In August 2022 a UK child who achieved a full accommodation on the basis of EHS.<sup>4</sup>

## Appendix B

### Modernize Health Policies with Safe Technology Practices and Wired Technology

<https://www.techsafeschools.org/resources>

<https://www.techsafeschools.org/mitigation>

<https://www.globalhealthalliance.ca/>

<https://www.ewg.org/news-insights/news/2022/11/protecting-kids-wireless-radiation-school-and-home>

<https://www.electrosensitivesociety.com/solutions/>

<https://emraustralia.com.au/>

### Wi-Fi in Schools

<https://sites.google.com/site/understandingemfs/impact-on-children>

<https://sites.google.com/site/understandingemfs/wi-fi-in-schools>

<https://magdahavas.com/?s=schools&submit=Go>

### Established Health Effects

This link (below) summarizes a total of 197 bodies of evidence each showing that non-thermal exposures well below ICNIRP, FCC or other “safety guidelines” cause an important health-related effect. A summary of this body of evidence is listed below.

[https://www.priartem.fr/IMG/pdf/Pall-safety\\_guidelines\\_fraud.pdf](https://www.priartem.fr/IMG/pdf/Pall-safety_guidelines_fraud.pdf)

Environmental Health Trust <https://ehtrust.org/world-health-organization-scientists-recommend-wireless-be-upgraded-for-cancer-causing-effects/>

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<sup>4</sup> <https://phiremedical.org/wp-content/uploads/2022/08/Press-Release-EHCP-for-UK-child-with-EHS-2022-PHIRE.pdf>

