

## APPENDIX A: Example letters

### EXAMPLE 1 - SHORTER LETTER

Dear MP \_\_\_\_\_,

Thank you for your response to my message about the importance of the “**Urgent Appeal to the Government of Canada to Suspend 5G Rollout in Canada and to Choose Safe and Reliable Fibre Connections**” that was sent to you after I signed it. <http://c4st.org/5Gappeal/>

My impression from your response was that you may have not fully understood the main points in the Appeal.

*[Add here whatever statement your MP had in his or her email to you, and add a reply. See the C4ST suggestions of possible replies for ideas and questions on what to put here.*

*[If your MP only sent an acknowledgement of receipt of your email, we suggest you send something like the following.]*

- 1) What actions are you taking to ensure that we have safer wired connections, e.g., fibre-optic cables, instead of the wireless radiation that will be emitted by the “*small cell*” antennas being placed close to our homes?
- 2) What actions are you taking to have Health Canada’s Safety Code 6 (2015) updated to include the many studies showing adverse non-heating effects, including “*clear evidence of carcinogenic activity*”? Safety Code 6 guidelines are based on the now disproven premise that heating from exposure to radiofrequency radiation must occur before there is harm to living tissue.
- 3) What actions are you taking to promote more meaningful local input into the installation of cell network antennas, whether on towers or on “*non-tower*” structures?

*[Please, also ask for one or more items from Appendix B - Possible actions your MP can take on your behalf.]*

Thank you for your attention to this important and urgent matter. Would it be possible to meet with you to discuss this further?

Sincerely,  
*[your name and contact information, including your postal code]*

*(Note: A representative from C4ST would be glad to join you and your MP by phone or videoconference for a meeting.)*

## EXAMPLE 2 - LONGER LETTER

Thank you for your response to my message about the importance of the “**Urgent Appeal to the Government of Canada to Suspend 5G Rollout in Canada and to Choose Safe and Reliable Fibre Connections**” that was sent to you after I signed it. <http://c4st.org/5Gappeal/>

My impression from your response was that you may have not fully understood the main points in the Appeal.

*[Add here whatever statement your MP had in his or her email to you, and add a reply. See the C4ST suggestions of possible replies for ideas and questions on what to put here.*

*If your MP only sent an acknowledgement of receipt of your email, we suggest you send something like the following.]*

### **1. Fibre-optic connections to the premises are superior to wireless 5G.**

The first point in the Appeal was that fibre-optics is a superior choice for a variety of reasons. Many of wireless 5G’s promises can be better met by using entirely wired/ cabled systems that are faster and more data secure than 5G, more economical in the long run and definitely safer because they do not emit harmful radiofrequency radiation.

Would you please tell me how you and your party are advancing this as preferable to wireless connections?

### **2. Health Canada’s guidelines are outdated and inadequate.**

In 2011, the World Health Organization-International Agency for Research on Cancer (WHO-IARC) classified the radiofrequency radiation emitted by cell network antennas and cell phones as a Group 2B possible carcinogen. WHO-IARC has now called for RF radiation to be re-evaluated based on animal studies showing “*clear evidence of carcinogenicity.*” More than 30 studies conducted at low intensity levels show DNA damage.

A second branch of the World Health Organization is the International EMF Project. This entity is heavily influenced by the wireless industry. These ties have been examined by two members of the European Union as well as by scientists who are independent of industry.

Will you please share this information with the Minister of Innovation, Science and Industry, as well as with the Chair and Members of the House of Commons Standing Committee on Health (HESA), and ask them to delay the rollout of 5G until this re-evaluation is conducted, and until Health Canada conducts a review of the literature on the non-cancer effects of radiofrequency radiation, such as sperm damage? This review must use international standards for scientific review.

### **3. Need for local bodies to determine the siting of cell antennas.**

Presently, the “*small*” cellular antennas being placed close to people’s homes and workplaces do not require public consultation or notification because they are deemed

by Innovation, Science and Economic Development (ISED) to be “*non-tower structures.*” Residents who are being exposed to wireless radiation 24/7 should have a say as to whether and where antennas are placed.

Don't you agree?

Regulations have been changed once and they can be changed again. In 2014, ISED (then Industry Canada) modified the CPC 2-0-03 so that public consultation is required for antennas used for commercial purposes on poles less than 15 metres in height. This is in addition to the requirement for public consultation for antennas placed on new big (macro) towers.

What will you do to have regulations changed to improve public notification and to require public consultation for antennas placed on non-tower structures?

What steps will you take to ensure that citizens have a meaningful say in the placement of cell network antennas in their neighbourhoods and elsewhere?

[Please, also ask for one or more items from Appendix B - Possible actions your MP can take on your behalf.]

Thank you for your attention to this important and urgent matter. Would it be possible to meet with you to discuss this further?

Sincerely,

[your name and contact information, including your postal code]

(Note: A representative from C4ST would be glad to join you and your MP by phone or videoconference for a meeting.)

## APPENDIX B:

# Possible actions your Member of Parliament (MP) can take on your behalf

### IMMEDIATE ACTIONS

1. Promote the use of fibre-optics as preferable to wireless in discussions in caucus and elsewhere.
2. Ask the federal Minister of Innovation, Science and Industry (ISED) to immediately halt the rollout of 5G.
3. Ask the Minister of ISED to immediately halt the auction of 5G spectrum until a full analysis is conducted.
4. Ask the Minister of ISED to publish on Open Government webpage (<https://open.canada.ca/en>) all measurements regarding the emissions from cell network antennas in Canada.
5. Ask the Minister of Health to provide to you the specific scientific publications and weight of evidence analysis that it uses to deem 5G as safe for human long-term exposures, and that it be published for the general public on its website.
6. Ask the Minister of Health to implement the Parliamentary Standing Committee on Health (HESA) 2015 recommendations.
7. Ask the Chair of HESA to have the scientific evidence of radiofrequency radiation's harm that has been published since 2015 reviewed by an independent panel of experts that should report back to HESA within one year; to have the 12 recommendations from the HESA 2015 report updated; and to have Health Canada report back to the HESA Committee in time for concrete action to be taken before the next federal election.
8. Sponsor an e-petition put forward by a constituent (you), e.g., opposing the rollout of 5G. Note: the MP does not have to agree with what is in the e-petition but does need to agree to sponsor it. C4ST can help draft a petition.
9. Arrange to have a meeting with the constituent (you); if you wish, a representative from C4ST will be glad to join you (by phone or videoconference).
10. Ask the Minister of the Environment and Climate Change to implement Recommendation 62 of the Report of the Standing Committee on Environment and Sustainable Development "Strengthening the Canadian Environmental Protection Act"<sup>1</sup> ("The Committee recommends that Health Canada and Environment and Climate Change Canada conduct studies on the effects of electromagnetic radiation on biota, review the adequacy of the current

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<sup>1</sup> Schulte D. (2017). **Report: Healthy Environment, Healthy Canadians, Healthy Economy: Strengthening the Canadian Environmental Protection Act, 1999**, Report #8 of the Standing Committee on Environment and Sustainable Development (42-1) - House of Commons of Canada, 80. <https://www.ourcommons.ca/DocumentViewer/en/42-1/ENVI/report-8/>

guidelines provided in Safety Code 6 and report their findings back to the Committee.”)

11. Ask your MP to write a letter to a Minister on your behalf. This will often get a quicker response than a letter written by you, with the added benefit that your MP will see the response.

## **Appendix B: Possible actions your Member of Parliament (MP) can take (Continued)**

### **LONG-TERM ACTIONS.**

1. Take actions to ensure that all communication devices and networks in Canada that can be wired, will be wired.
2. Get commitment from the Minister of Health to engage an unbiased panel to revise Safety Code 6 (2015) based on the international standards of literature review.  
The 2015 version was a revision of Safety Code 6 (2009). Given the evidence found in major studies since then, another review of Safety Code 6 (2015) is overdue.
3. Lobby for local control over siting of cell network antenna infrastructure and emissions.
4. Assign oversight of the health effects of wireless radiation on the health of Canadians to the Public Health Agency of Canada.
5. Ask for a review of the process the Canadian Radio-television Telecommunications Commission (CRTC) uses to approve satellite orbits and/or emissions over Canadian territories.

## APPENDIX C:

### List of publications of research conducted by Health Canada on radiofrequency radiation-electromagnetic fields, since 1983

Obtained from Health Canada August 4, 2020.

	Year	Study
1.	1983	Stuchly MA, Repacholi MH, Lecuyer DW. Operator exposure to radiofrequency fields near a hyperthermia device. <i>Health Phys.</i> 1983, 45(1):101-107.
2.	1983	Stuchly MA, Repacholi MH, Lecuyer DW, Mann RD. Radiofrequency emissions from video display terminals. <i>Health Phys.</i> 1983, 45(3):772-775.
3.	1987	Stuchly MA. Proposed revision of the Canadian recommendations on radiofrequency-exposure protection. <i>Health Phys.</i> 1987, 53(6):649-65.
4.	1991	Stuchly MA, Kozlowski JA, Symons S, Lecuyer DW. Measurements of contact currents in radiofrequency fields. <i>Health Phys.</i> 1991, 60(4):547-557.
5.	1999	Thansandote A, Gajda GB, Lecuyer DW. Radiofrequency radiation in five Vancouver schools: exposure standards not exceeded. <i>CMAJ.</i> 1999, 160(9):1311-1312.
6.	2002	McNamee JP, Bellier PV, Gajda GB, Miller SM, Lemay EP, Lavallée BF, Marro L, Thansandote A. DNA damage and micronucleus induction in human leukocytes after acute in vitro exposure to a 1.9 GHz continuous-wave radiofrequency field. <i>Radiat Res.</i> 2002, 158(4):523-533.
7.	2002	McNamee JP, Bellier PV, Gajda GB, Lavallée BF, Lemay EP, Marro L, Thansandote A. DNA damage in human leukocytes after acute in vitro exposure to a 1.9 GHz pulse-modulated radiofrequency field. <i>Radiat Res.</i> 2002, 158(4):534-537.
8.	2002	Gajda GB, McNamee JP, Thansandote A, Boonpanyarak S, Lemay E, Bellier PV. Cylindrical waveguide applicator for in vitro exposure of cell culture samples to 1.9-GHz radiofrequency fields. <i>Bioelectromagnetics.</i> 2002, 23(8):592-598.
9.	2003	McNamee JP, Bellier PV, Gajda GB, Lavallée BF, Marro L, Lemay E, Thansandote A. No evidence for genotoxic effects from 24 h exposure of human leukocytes to 1.9 GHz radiofrequency fields. <i>Radiat Res.</i> 2003, 159(5):693-697.
10.	2005	Moulder JE, Foster KR, Erdreich LS, McNamee JP. Mobile phones, mobile phone base stations and cancer: a review. <i>Int J Radiat Biol.</i> 2005, 81(3):189-203.
11.	2006	Chauhan V, Mariampillai A, Gajda GB, Thansandote A, McNamee JP. Analysis of proto-oncogene and heat-shock protein gene expression in human derived cell-lines exposed in vitro to an intermittent 1.9 GHz pulse-modulated radiofrequency field. <i>Int J Radiat Biol.</i> 2006 May;82(5):347-54.
12.	2006	Chauhan V, Mariampillai A, Bellier PV, Qutob SS, Gajda GB, Lemay E, Thansandote A, McNamee JP. Gene expression analysis of a human lymphoblastoma cell line exposed in vitro to an intermittent 1.9 GHz pulse-modulated radiofrequency field. <i>Radiat Res.</i> 2006, 165(4):424-429.
13.	2006	Qutob SS, Chauhan V, Bellier PV, Yauk CL, Douglas GR, Berndt L, Williams A, Gajda GB, Lemay E, Thansandote A, McNamee JP. Microarray gene expression profiling of a human glioblastoma cell line exposed in vitro to a 1.9 GHz pulse-modulated radiofrequency field. <i>Radiat Res.</i> 2006, 165(6):636-644.
14.	2007	Chauhan V, Mariampillai A, Kutzner BC, Wilkins RC, Ferrarotto C, Bellier PV, Marro L, Gajda GB, Lemay E, Thansandote A, McNamee JP. Evaluating the biological effects of intermittent 1.9 GHz pulse-modulated radiofrequency fields in a series of human-derived cell lines. <i>Radiat Res.</i> 2007, 167(1):87-93.
15.	2007	Chauhan V, Qutob SS, Lui S, Mariampillai A, Bellier PV, Yauk CL, Douglas GR, Williams A, McNamee JP. Analysis of gene expression in two human-derived cell lines exposed in vitro to a 1.9 GHz pulse-modulated radiofrequency field. <i>Proteomics.</i> 2007, 7(21):3896-905.
16.	2007	McNamee JP and Bellier PV, "Cytogenetic and Carcinogenetic Effects of Exposure to Radiofrequency Radiation" In: "Chromosomal Alterations: Methods, Results and Importance in Human Health. Obe, Günter; Vijayalaxmi (Eds.) 2007, XXIV, 515 p." Springer-Verlag, Heidelberg, Germany (ISBN: 9783540714132).

17 .	2009	McNamee JP, Chauhan V. Radiofrequency radiation and gene/protein expression: a review. Radiat Res. 2009 Sep;172(3):265-87.
18 .	2012	Wasoontarajaroen S, Thansandote A, Gajda GB, Lemay EP, McNamee JP, Bellier PV. Dosimetry evaluation of a cylindrical waveguide chamber for unrestrained small rodents at 1.9 GHz. Bioelectromagnetics. 2012 Oct;33(7):575-84.
19 .	2012	Wasoontarajaroen S, Thansandote A, Gajda GB, Lemay EP, McNamee JP, Bellier PV. Cylindrical waveguide electromagnetic exposure system for biological studies with unrestrained mice at 1.9 GHz. Health Phys. 2012 Sep;103(3):268-74
20 .	2016	McNamee JP, Bellier PV, Konkle AT, Thomas R, Wasoontarajaroen S, Lemay E, Gajda GB. Analysis of gene expression in mouse brain regions after exposure to 1.9 GHz radiofrequency fields. Int J Radiat Biol. 2016 Jun;92(6):338-50.
21 .	2019	Gajda GB, Lemay E, Paradis J. Model of steady-state temperature rise in multilayer tissues due to narrow-beam millimeter-wave radiofrequency field exposure. Health Physics. 2019. DOI: 10.1097/HP.0000000000001036 <a href="https://journals.lww.com/health-physics/fulltext/2019/09000/model_of_steady_state_temperature_rise_in.4.aspx">https://journals.lww.com/health-physics/fulltext/2019/09000/model_of_steady_state_temperature_rise_in.4.aspx</a>