



August 19, 2019

To: Mr Charles Parkinson/Mrs Andrea Dudley-Owen
President & Vice President of Economic Development
Sir Charles Frossard House, La Charroterie
St Peter Port, Guernsey GY1 1FH

Regarding: Proposal to install 5th Generation wireless infrastructure in Guernsey

Dear Mr Parkinson and Mrs. Dudley-Owen

I am contacting you at the request of a local resident in Guernsey. I understand that you are considering a proposal by the telecommunications industry to install the 5th Generation wireless infrastructure there. We highly recommend you carefully consider the scientific evidence reporting biological changes and health risks posed to people, plants and animals before taking further action.

Starting in the 1980s, wireless communications networks have been deployed throughout most nations in the developed world. Presently, the 5th generation wireless communications infrastructure is being deployed. 5G technologies offer faster speed, lower response time and greater connectivity for data retrieval and storage. A multitude of additional antennae will have to be installed on streetlights and dedicated poles in close proximity to buildings, in order to transmit 4G and 5G signals inside those buildings and outside. 6G, bringing new applications for artificial intelligence purposes through the Internet of Things – virtual reality, autonomous vehicles, etc., is already looming on the horizon.

The current radiofrequency radiation exposure standards set by international standard-setting organizations only protect humans against heating effects and under short term exposure conditions. These standards do not offer protection under chronic, long term conditions. Digital pulsed-modulated radiofrequency radiation signals in the middle, high, and ultra-high frequency ranges used by 5G technologies will greatly increase electrosmog conditions, particularly in urban areas. There are no exposure standards that provide protection for plants and animals. There are three well-documented studies in the scientific literature that show long term exposure to radiofrequency radiation can be cancer-causing (Chou et al 1992, NTP 2018, Falcioni et al. 2019). Therefore, precaution is strongly advised.

I direct the International EMF Scientist Appeal to the United Nations, now signed by 249 scientists in 42 nations, all of whom have published peer reviewed papers in professional journals reporting biological and health effects due to electromagnetic field exposure. This Appeal was initiated in May 2015 and was published in a peer reviewed journal. Since that time, the Appeal has been referred in public testimony, referenced in scientific papers, and has been mentioned regularly by the media. In 2017, in recognition of the advent of 5G, the Advisors to the Appeal issued a statement saying, "5G technologies must be subjected to an independent health and safety assessment before they are launched". Unfortunately, we are not aware that any government agency has done any safety testing on 4G or 5G technologies, including wireless devices, antennas or satellite communications technologies.

The scientific basis for the common concerns held by the signatories to the Appeal is:

"Numerous recent scientific publications have shown that EMF affects living organisms at levels well below most international and national guidelines. Effects include increased cancer risk, cellular stress, increase in harmful free radicals, genetic damages, structural and functional changes of the reproductive system, learning and memory deficits, neurological disorders, and negative impacts on general well-being in humans. Damage goes well beyond the human race, as there is growing evidence of harmful effects to both plant and animal life."

The signatories make the following recommendations at the end of the Appeal:

1. children and pregnant women be protected;
2. guidelines and regulatory standards be strengthened;
3. manufacturers be encouraged to develop safer technology;
4. utilities responsible for the generation, transmission, distribution, and monitoring of electricity maintain adequate power quality and ensure proper electrical wiring to minimize harmful ground current;
5. the public be fully informed about the potential health risks from electromagnetic energy and taught harm reduction strategies;
6. medical professionals be educated about the biological effects of electromagnetic energy and be provided training on treatment of patients with electromagnetic sensitivity;
7. governments fund training and research on electromagnetic fields and health that is independent of industry and mandate industry cooperation with researchers;
8. media disclose experts' financial relationships with industry when citing their opinions regarding health and safety aspects of EMF-emitting technologies; and
9. white-zones (radiation-free areas) be established.

For more information, I refer you to the International EMF Scientist Appeal and a July 2019 letter from the Advisors to the United Nations Environment Program about the effects of electromagnetic radiation on nature, that may be found at www.emfscientist.org.

We hope this information is useful to you. Let us know if you have any questions.

Regards,



Elizabeth Kelley, MA

Director

International EMF Scientist Appeal Campaign

EMFScientist.org

info@emfscientist.org

On behalf of the Advisors to the International EMF Scientist Appeal:

Annie Sasco, Ph.D, DrPH.; Magda Havas, Ph.D.; Henry Lai, Ph.D.; Ronald L. Melnick Ph.D.;

Joel M. Moskowitz, Ph.D.

cc. Deputies of Guernsey, Director of Health, CICRA, David Green