

For Express Mail

7100 N Rachel Way
Unit 6 Eagles Rest
Teton Village WY 83025



For U.S. Mail

P.O. Box 58
Teton Village WY 83025
www.ehtrust.org

Michael O'Higgins
Chair
Guernsey Competition & Regulatory Authority
Suite 4, 1st Floor, Plaiderie Chambers
La Plaiderie
St Peter Port, Guernsey, GY1 1WG

RE: 5G Spectrum: Draft Statement of Intent

Dear Mr. O'Higgins,

Similar to cell phones and other wireless devices, these 5G “small cells” will emit microwave radiation. This radiation is associated with a wide array of adverse [health](#) and [environmental](#) effects, including but not limited to: disrupted [migration](#) and [orientation](#) of animals like birds and insects, [cancer](#), [reproductive harm](#), [DNA damage](#), [immune dysfunction](#), [damage to the blood brain barrier](#), [altered brain development](#), [disruptions to heart functioning](#), [mental health effects](#), [memory impairment](#), [sleep disturbances](#), and [tree/plant/crop](#) damage. It is a serious concern for [wildlife](#). As the [U.S. Department of Interior](#) has noted, radiation studies at cellular communication towers have documented “nest and site abandonment, plumage deterioration, locomotion problems, reduced survivorship, and death” among birds. Experts warn that [amphibians and insects](#) are at particular risk from 5G. Indeed, the technology may even be able to “[punch irreparable holes in the food web](#).”

Wireless radiation limits in the US and UK do not adequately protect public health or the environment. They do not account for current cumulative, long-term exposures, nor are they designed to protect populations at greater risk such as children, pregnant women, the unborn, the elderly, those with chronic illness, electromagnetically sensitive individuals, etc. Many [medical organizations](#) internationally like the [Austrian Medical Association](#) and the [American Academy of Pediatrics](#) recommend reducing rather than increasing exposure to radiofrequency radiation and are urging governments to update radiation standards to better protect children’s health and reflect current use patterns.

Ambient exposures to radiofrequency radiation will increase significantly with the rollout of 5G “small cell” wireless facilities to be placed right in front of homes. Many countries such as China, India, Russia, Italy, and Switzerland have far more protective and strict [radiation limits](#) than the United States and the UK. Industry [reports](#) state that full 5G deployment is not even possible in countries with more protective limits.

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Scientists, doctors, and other experts around the world have called for [greater protection from wireless and electromagnetic radiation exposures](#) and a [moratorium on the rollout of 5G](#) until health and environmental hazards have been fully investigated by independent scientists.

Moreover, technological progress does not require this increase in radiation. [Wired systems are the safer, healthier alternative](#) to wireless systems, as they do not emit harmful radiofrequency radiation. They are also more energy efficient, cost-effective, and more reliable.

In short, the 5G rollout will dramatically increase the levels of radiofrequency radiation, a [pollutant](#) with documented harms to human health and the environment. Please see the attached materials with information on the science substantiating scientific calls to reduce wireless radiation exposures and halt the 5G rollout.

Sincerely,

A handwritten signature in black ink that reads "Devra Davis".

Devra Davis, PhD, MPH

President, Environmental Health Trust
Visiting Prof. Hebrew Univ. Hadassah Medical Center &
Ondokuz Mayıs Univ. Medical School
Associate Editor, Frontiers in Radiation and Health

- [Published Research on 5G and the Small Cell Rollout](#)
- April 10, 2019 - [Letter to the National Park Service](#) - Documenting impacts on the environment and wildlife from cell towers and wireless facilities.
- March 28, 2019 - [Letter to Baltimore Planning Commission regarding Proposed Legislation on Small Cells](#) - This letter summarizes the research and science on wireless facilities.
- [EHT Press Release](#) on New Study: Cell Phones Exceed Safety Limits When Phones Touch the Body Gandhi, O. P. (2019). [Microwave Emissions From Cell Phones Exceed Safety Limits in Europe and the US When Touching the Body](#). IEEE Access, 7, 47050-47052. doi:10.1109/access.2019.2906017
- Anthony B. Miller, L. Lloyd Morgan, Iris Udasin, Devra Lee Davis, [Cancer epidemiology update, following the 2011 IARC evaluation of radiofrequency electromagnetic fields \(Monograph 102\)](#), Environmental Research, Volume 167, 2018, Pages 673-683, ISSN 0013-9351

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- Cindy L. Russell, [5 G wireless telecommunications expansion: Public health and environmental implications](#), Environmental Research, 2018, ISSN 0013-9351
- [Research Compilation: Cellular Radiation Negatively Impacts Bees](#)
- [Research Compilation: Cellular Radiation Negatively Impacts Wildlife](#)
- [Research Compilation: Wireless Radiation Effects Trees](#)