

Application No:	Consultees Name:	Received:	Comment:	Response:
2021/5946/P	Phil Vasili	01/03/2022 14:16:34	OBJ	<p>The application argues 5G is a safe technology. (Interestingly no mention of 5G technology is made in the headline description of the application. There are many studies that argue the intense radiation emitted by ubiquitous 5G towers is very unsafe. 'Adverse health effects of 5G mobile networking technology under real-life conditions' by Ronald N Kostoff, Paul Heroux, Michael Aschner and Aristides Tsatsakis 'identifies adverse effects of non-ionizing non-visible radiation (hereafter called wireless radiation) ... most of the laboratory experiments conducted to date are not designed to identify the more severe adverse effects reflective of the real-life operating environment in which wireless radiation systems operate. Many experiments do not include pulsing and modulation of the carrier signal. The vast majority do not account for synergistic adverse effects of other toxic stimuli (such as chemical and biological) acting in concert with the wireless radiation. [We] present evidence that the nascent 5G mobile networking technology will affect not only the skin and eyes, as commonly believed, but will have adverse systemic effects as well.'</p> <p>In 2011 WHO classified radio frequency radiation as a possible 2B carcinogen. Scientists have identified at least 10 primary reasons to be concerned about health effects of 5G:</p> <p>A DENSER SOUP OF ELECTROSMOG - really high frequencies at low, short-range intensities creating a yet more complicated denser soup of electrosmog.</p> <p>EFFECTS ON THE SKIN</p> <p>The human body has between two million to four million sweat ducts. Dr. Ben-Ishai of Hebrew University, Israel explains that our sweat ducts act like "an array of helical antennas when exposed to these wavelengths," meaning that we become more conductive. A recent New York study which experimented with 60GHz waves stated that "the analyses of penetration depth show that more than 90% of the transmitted power is absorbed in the epidermis and dermis layer."</p> <p>The effects of MMWs as studied by Dr. Yael Stein of Hebrew University is said to also cause humans physical pain as our nociceptors flare up in recognition of the wave as a damaging stimuli. This raises the possibility of many skin diseases and cancer as well as physical pain to our skin.</p> <p>EFFECTS ON THE EYES</p> <p>An experiment conducted by the Medical Research Institute of Kanazawa Medical University found that 60GHz "millimeter-wave antennas can cause thermal injuries of varying types of levels. The thermal effects induced by millimeter waves can apparently penetrate below the surface of the eye."</p> <p>EFFECTS ON THE HEART</p> <p>A 1992 Russian study found that frequencies in the range 53-78GHz (that which 5G proposes to use) impacted the heart rate variability (an indicator of stress) in rats. Another Russian study on frogs who's skin was exposed to MMWs found heart rate changes (arrhythmias).</p> <p>IMMUNE SYSTEM EFFECTS</p> <p>A 2002 Russian study examined the effects of 42HGz microwave radiation exposure on the blood of healthy mice. It was concluded that "the whole-body exposure of healthy mice to low-intensity EHF EMR has a profound effect on the indices of nonspecific immunity".</p> <p>EFFECTS ON CELL GROWTH RATES</p> <p>A 2016 Armenian study observed MMWs at low intensity, mirroring the future environment brought about by 5G. Their study conducted on E-coli and other bacteria stated that the waves had depressed their growth as well as "changing properties and activity" of the cells. The concern is that it would do the same to human cells.</p> <p>EFFECTS ON BACTERIA RESISTANCE</p> <p>The same Armenian study also suggested that MMWs effects are mainly on water, cell plasma membrane and genome too. They had found that MMW's interaction with bacteria altered their sensitivity to "different biologically active chemicals, including antibiotics." More specifically, the combination of MMW and antibiotics showed that it may be leading to antibiotic resistance in bacteria.</p>

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This groundbreaking finding could have a magnum effect on the health of human beings as the bandwidth is rolled out nationwide. The concern is that we develop a lower resistance to bacteria as our cells become more vulnerable – and we become more vulnerable.

EFFECTS ON PLANT HEALTH

One of the features of 5G is that the MMW is particularly susceptible to being absorbed by plants and rain. Humans and animals alike consume plants as a food source. The effects MMW has on plants could leave us with food that's not safe to consume.

A 2010 study on aspen seedlings showed that the exposure to radio frequencies led to the leaves showing necrosis symptoms.

EFFECTS ON THE ATMOSPHERE AND DEPLETION OF FOSSIL FUELS

Implementation of the 5G global wireless network requires the launching of rockets to deploy satellites for 5G. These satellites have a short lifespan which would require a lot more deployment than what we're currently seeing. A new type of hydrocarbon rocket engine expected to power a fleet of suborbital rockets would emit black carbon which "could cause potentially significant changes in the global atmospheric circulation and distributions of ozone and temperature" according to a 2010 Californian study. Solid state rocket exhaust contains chlorine which also destroys the ozone.

DISRUPTION OF THE NATURAL ECOSYSTEM

Since the year 2000, there have been reports of birds abandoning their nests as well as health issues like "plumage deterioration, locomotion problems, reduced survivorship and death," says researcher Alfonso Balmori. Bird species that are affected by these low levels, non-ionizing microwave radiation are the House Sparrows, Rock Doves, White Storks, Collared Doves and Magpies, among others. The declining bee population is also said to be linked to this non-ionizing EMF radiation. It reduces the egg-laying abilities of the queen leading to a decline in colony strength.

In 2017 180 scientists and doctors from 35 countries warned of the health hazards from the roll-out of 5G because of mandatory exposure to the greater intensity of wireless radiation. The UK signatories included Erica Mallery-Blythe, MD, Founder of PHIRE (Physicians' Health Initiative for Radiation and Environment) Trustee Radiation Research Trust (RRT), Soton, David Gee, Visiting Fellow, Institute of Environment, Health and Societies, Brunel University, London Andrew Goldsworthy, BSc, PhD, Lecturer in Biology (retired), Imperial College London, Monmouth Alasdair Philips, BSc, DAgE, Professional engineer, Powerwatch Syed Ghulam Sarwar Shah, MBBS, MA, MSc, PhD , Post-Doctoral Research Fellow, Department of Occupational Health, Guy's and St. Thomas' NHS Trust; Honorary Research Fellow, Department of Clinical Sciences, Brunel University, London, Sarah Starkey, PhD, Independent Neuroscience and Environmental Health Research. (<https://ehtrust.org/wp-content/uploads/Scientist-5G-appeal-2017.pdf>).

In 2019 5G was rolled-out in Switzerland. The weekly French-language Swiss magazine L'illustré interviewed people living in Geneva after the 5G rollout with alarming details of illness.

([https://www.illustre.ch/magazine/5g-sentons-cobayes?](https://www.illustre.ch/magazine/5g-sentons-cobayes?utm_source=facebook&fbclid=IwAR1kXKK1yWBDKoaZRVOQB7gRvC8o-1a3GyVbQHJPYpKAZzpl73iKYtaiA6Q..)

[utm_source=facebook&fbclid=IwAR1kXKK1yWBDKoaZRVOQB7gRvC8o-1a3GyVbQHJPYpKAZzpl73iKYtaiA6Q..](https://www.illustre.ch/magazine/5g-sentons-cobayes?utm_source=facebook&fbclid=IwAR1kXKK1yWBDKoaZRVOQB7gRvC8o-1a3GyVbQHJPYpKAZzpl73iKYtaiA6Q..))

Lloyds of London, one of the world's premier insurance groups, is refusing to insure health claims made against wireless technologies. Other insurance companies are following Lloyd's lead in this. Lloyds November 2010 Risk Assessment Team's Report compares wireless technologies with asbestos, in that the early research on asbestos was "inconclusive" and only later did it become obvious to anyone paying attention that asbestos causes cancer. Lloyds' is saying to the 5G promoters, "proceed at your own risk."

This could apply to councils susceptible to class action lawsuits, such as Camden if they approve applications for the use of technology that has not been proved conclusively safe and has many studies proving its

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2021/5946/P	A Evans	01/03/2022 20:48:42	OBJ	damaging nature. As a Camden resident who lives very near Haddo House I ask you to oppose this application in deference to public safety.
				I object. This current application increases the amount of equipment to be installed despite lesser proposals having been refused twice before. The decision criteria of application numbers 2020/1456/P and 2020/4559/P would appear to still apply.