

BLEADON 5G PLANNING APPLICATION

[24/P/2145/TEA](#)

Application to determine if prior approval is required for the proposed installation of a 20m high lattice tower, 3no. antennas, 2no. 0.6m dishes, 1no. GPS Node, and 2no. ground-based equipment cabinets and ancillary development thereto, to be situated within an 8x8m compound with 3m steel palisade fence.

We strongly object to this application on health grounds. No application should be approved within North Somerset until a full long-term investigation has been completed as to the negative health effect of all wireless technology, especially 5G. We have highlighted a number of health concerns below, which we expect North Somerset Council and its officers to investigate and guarantee safety before any implementation of 5G.

Weston Mercury state that the proposed 5G installation in Bleadon is to be part of a standalone national network, built on new (untested?), end-to-end 5G infrastructure - what will be the health consequences?" *Standalone 5G is designed to boost mobile performance as it is built on new, end-to-end 5G infrastructure for the first time, while removing any reliance on older 4G infrastructure, and EE, which is part of the BT Group, has said the network also uses artificial intelligence to reduce power to parts of infrastructure when they were not in use and improve energy efficiency... With these additional locations, the firm said its standalone 5G network will cover an area of more than 21 million people.*"

New technology, with a very strong signal to reach many people. Where is the long term health research?

<https://www.thewestonmercury.co.uk/news/24683788.weston-added-ees-standalone-5g-network/>

Has NSC investigated the existing and proposed health risks, including identifying any hot spots mapped to NHS health data over the last 20 years?

World Health Organisation (WHO) EHC 137 (ELECTROMAGNETIC FIELDS (300 Hz to 300 GHz) 1993) states, *"An RF hot spot may be defined as a point or small area in which the local values of electric and/or magnetic field strengths are significantly elevated above the typical ambient field levels and often 188 EHC 137: Electromagnetic fields are confined near the surface of a conductive object..."*

"RF hot spots may be produced by an intersection of narrow beams of RF energy (directional antennas), by the reflection of fields from conductive surfaces (standing waves), or by induced currents flowing in conductive objects exposed to ambient RF fields (re-radiation). RF hot spots are characterized by very rapid spatial variation of the fields and, typically, result in partial body exposures of individuals near the hot spots. Uniform exposure of the body is essentially impossible because of the high spatial gradient of the fields associated with RF hot spots.

"A high priority should be placed on research that emphasizes causal relationships and dose-effect thresholds and coefficients..."

There is increasing concern about the possibility that RF exposure may play a role in the causation or promotion of cancer, specifically of the blood forming organs or in the CNS. Similar uncertainties surround possible effects on reproduction, such as increased rates of spontaneous abortion and of congenital malformations"

Has this priority research been undertaken in relation to 2G, 3G, 4G and now 5G before rollout, and has North Somerset Council assessed this information for possible health risks to the population it represents? Where are the longitudinal studies proving safety of use? Where is this information published? NB: 5G operates at 2.4GHz and 5GHz

https://iris.who.int/bitstream/handle/10665/37112/WHO_EHC_137_eng.pdf?sequence=1

Inaudible High-Frequency Sounds Affect Brain Activity: Hypersonic Effect (Oohashi)

"In conclusion, our findings that showed an increase in alpha EEG potentials, activation of deep-seated brain structures, a correlation between alpha-EEG and rCBF in the thalamus, and a subjective preference toward FRS, give strong evidence supporting the existence of a previously unrecognized response to high-frequency sound beyond the audible range that might be distinct from more usual auditory phenomena." What health effects occur due to high frequency sounds beyond the audible range, especially on the brain?

<https://journals.physiology.org/doi/full/10.1152/jn.2000.83.6.3548>

Wiki Hypersonic Effect - *"Criticism of Oohashi's studies has been directed primarily at the conclusions regarding listener's preferences the test material; there has been little criticism aimed at the physiological aspect of the studies. Studies cited as contrary evidence did not address the physiological brain response to high-frequency audio, only the subject's conscious response to it. Further investigation of the observed physiological response appears to show that the ear alone does not produce the extra brain waves, but when the body is exposed to high-frequency sound it gives some brain stimulus"*

https://en.wikipedia.org/wiki/Hypersonic_effect

World Health Organisation (WHO) Burden of disease from Environmental Noise

"The health impacts of environmental noise are a growing concern. At least one million healthy life years are lost every year from traffic-related noise in the western part of Europe.

This publication summarizes the evidence on the relationship between environmental noise and health effects, including cardiovascular disease, cognitive impairment, sleep disturbance, tinnitus, and annoyance... Data are still lacking for the rest of the WHO European Region. This publication provides policy-makers and their advisers with technical support in their quantitative risk assessment of environmental noise. International, national and local authorities can use the procedure for estimating burdens presented here to prioritize and plan environmental and public health policies" Has further research been undertaken? What was the outcome? What are the effects of the noises we can't hear, i.e. at 2.4GHz and 5GHz and hypersonic effect?

<https://www.who.int/publications/i/item/9789289002295>

IARC Classifies Radiofrequency Electromagnetic Fields as Possibly Carcinogenic to Humans

IARC - The WHO/International Agency for Research on Cancer (IARC) - Classification 2B *"This category is used for agents for which there is limited evidence of carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals. It may also be used when there is inadequate evidence of carcinogenicity in humans but there is sufficient evidence of carcinogenicity in experimental animals. In some instances, an agent for which there is inadequate evidence of carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals together with supporting evidence from mechanistic and other relevant data may be placed in this group. An agent may be classified in this category*

solely on the basis of strong evidence from mechanistic and other relevant data" What is the actual evidence?

https://www.iarc.who.int/wp-content/uploads/2018/07/pr208_E.pdf

British Medical Journal (BMJ) - Stop global roll out of 5G networks until safety is confirmed, urges expert

"Transmitter density means greater population exposure to high levels of radio frequency electromagnetic fields We should err on the side of caution and stop the global roll out of 5G (fifth generation) telecoms networks until we are certain this technology is completely safe, urges an expert in an opinion piece published online in the Journal of Epidemiology & Community Health..."

"Until we know more about what we are getting into, from a health and ecological point of view, those putative gains need to wait," he concludes"

Has NSC not got access to this health information? Where can I access it?

<https://bmjgroup.com/stop-global-roll-out-of-5g-networks-until-safety-is-confirmed-urges-expert/>

What is the accumulated effect of these devices on health e.g. 5G towers, mobile phones, electric cars, microwaves, Wifi, Bluetooth, overhead cables, etc., including pacemakers? What is the effect of multiple devices within one household? A household within a tower block with neighbours above, below, left and right? Please send meta-analysis of information.

National Cardiac Audit Program 2024 - *"15% increase in the use of more 'complex' cardiac resynchronisation therapy pacemakers (CRT-P) to improve heart function since 2017/18.* What meta study information is there for cardiac issues and 5G?

<https://www.nicor.org.uk/publications/ncap/10573d-ncap-aggregate-report-2024-final-ac?layout=default>

Concerns regarding 5G phones e.g. Samsung Galaxy A22 Instruction Manual

Read at least first 20 pages, *"Turn the terminal OFF near high-precision electronic control equipment or electronic equipment using low-power signals. Failure to do so may cause the equipment to fail or malfunction by radio wave. * Examples of electronic equipment to avoid Hearing aids, implanted pacemakers or defibrillators, other electronic medical equipment and other automatic control equipment. Users wearing implanted pacemakers or defibrillators or other electronic medical equipment should check with the manufacturer or sales outlet about the effect of radio wave on the equipment... Wearers of the electronic medical equipment such as implanted pacemakers or defibrillators must carry and use the terminal at least 15 cm away from the implanted device. The terminal's signals may affect the operation of the electronic medical equipment.... When you are in a crowd etc. and you have difficulties to keep a distance of 15 cm or more from others, turn the airplane mode on or power off the terminal not to transmit signals."*

Adverse health effects of 5G mobile networking technology under real-life conditions

"This article also presents 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."

<https://www.sciencedirect.com/science/article/abs/pii/S037842742030028X>

Court Issues Unprecedented Ruling on 4G Tower After Ranchers Notice What Was Happening to the Cows

"The court said that "it is appropriate to order the temporary cessation of the operation of this antenna for a period of two months, taking into account its general impact, with monitoring, by the judicial expert, of the behavior of the herd, and of the dairy cows in particular, during this period... The court noted there had been "a significant drop in the quality and quantity of milk produced, a serious disruption in the behavior of the herd and its voluntary denutrition and abnormally high deaths."

What is the effect on our wildlife, especially as Bleadon is in a rural farmland area?

<https://www.westernjournal.com/court-issues-unprecedented-ruling-4g-tower-ranchers-notice-happening-cows/>

Where is the actual research regarding 5G, as government information seems to avoid specifics E.g. Australian Parliament Inquiry into 5G

"1.17 The Committee accepted a large number of submissions which solely addressed concerns over how the deployment of 5G may affect human health. As the Committee is not a health committee, it was limited in its ability to investigate this issue fully. The Committee sought to inform itself about this issue, and refers to it later in the report"

"2.111 The NTP conducted two-year toxicology studies in rats and mice to help clarify potential health hazards, including cancer risk, from exposure to RFR [Radio Frequency Radiation] like that used in 2G and 3G cell phones. The NTP noted that the types of RFR used for Wi-Fi and 5G networks were not investigated in their studies"

https://parlinfo.aph.gov.au/parlInfo/download/committees/reportrep/024373/toc_pdf/TheNextGenFuture.pdf;fileType=application%2Fpdf

Submission 517 – various effects of 5G

https://www.aph.gov.au/Parliamentary_Business/Committees/House/Communications/5G/Submissions

Has there been any further research into effect of 5G on **tumours**? e.g. some radiation therapy increases risk of glioblastoma brain tumours, and there is a rising Incidence of Glioblastoma Multiforme in a Well-Defined Population

<https://pubmed.ncbi.nlm.nih.gov/32572354/>