

Ms J Learmond-Criqui

Question	Your response
Question 1: Do you agree with our proposal to use an SMRA design for this award?	Confidential? – Y / N
Question 2: Do you have any comments on the proposed detailed rules for our SMRA design?	Confidential? – Y / N
Question 3: Do you have any other comments you wish to make on our proposals for this award?	Confidential? – N The 700mHz frequency is known to be a frequency which penetrates human tissue by up to 13cm. The electromagnetic frequency of 700mHz and 3.6-3.7GHz are harmful to humans, animals, pollinators, insects and trees. Please see an extract of one study in the attached schedule. There are many more. As a public body, you are tasked with safeguarding the health and safety of the nation. Your auctioning off of these frequencies is harming residents of the nation. I would invite you to stop this, not least under the Precautionary Principle. . We are all to be “baked in” (literally) by the 'Internet of Things'. The terminology is all industry focussed. The ‘benefits’ of 5G are not spelt out. This is all about corporate profits and data capture (plus surveillance related to the ‘Smart’ grid etc). It is Orwellian. This is clearly being imposed from the top down in a breathtakingly arrogant and reckless fashion. There has been zero public consultation on the deployment of 5G infrastructure which is propagated by these auctions. Residents in the nation are being used as ‘guinea pigs’ because your various strategy and update documents show this is being rolled out already and yet nobody seems to have any

grip on it at all. There is also zero mention of either health or environmental effects. All of this is against the Human Rights Act, and also against The Children Act. It seems that the Government believe that we, as citizens, should be used as guinea pigs for their "5G Test Beds". This is in contravention of the their, and your duty of care towards its citizens and against Nuremburg principles (ie. there is no 'right' to use us and our health for "experimental" purposes and without our consent).

As I mentioned, the EMFs from the 700mHz frequency band is known to penetrate deep into human tissue – up to 13cm. A recent study by Kesari et al in Reproductive Biology and Endocrinology last year concludes that "testicles are very sensitive to these radiations because of the development and maturation processes of sperm taking place in the testicles. It is also well established that the developing phase of the brain and the testicles are very sensitive to radiation, which may cause severe damages in the form of genotoxic effects" and so on.

The millions of micro cells which will be deployed to deliver the data load promises of 5G are destined to be as little as 4 feet off the ground. What do you know that dangles about 4 feet off the ground? Well, it does not take a genius to understand the potential impact on fertility with the roll out of 5G infrastructure. We are already experiencing an impact on fertility from other factors. Now there will be this to add to the mix. Dr Martin Pall of Washington State University predicts a collapse in human fertility within 10 years following the roll out of 5G.

Please stop the auctioning of these frequencies which are used by mobile service companies to emit EMF pollution which is doing us harm.

REVIEW

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Radiations and male fertility

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Testicles are very sensitive to these radiations because of the development and maturation processes of sperm taking place in the testicles. It is also well established that the developing phase of the brain and the testicles are very sensitive to radiation, which may cause severe damages in the form of genotoxic effects [9, 25, 26, 45]. Several studies suggest that microwave radiations are potentially strong enough to penetrate the brain cranium, and nearly 40% of these can reach deeper into the brain [46, 47]; penetration depths of 4–5 cm are assumed [48, 49]. The same applies to the testes.

During testicular developmental stages, the penetration depth is not the sole factor, but also i) exposure time; ii) duration of exposure (i.e. number of exposure days); iii) the greater number of undeveloped cells exposed to microwaves; and iv) the water content of the organ (the greater the amount of water in an organ, the greater will be the effect of the microwave radiation). Several studies also reported that EMF-induced morphological changes are also depending on the type, dose, mode and duration of the EMF-exposure [50–54]. Therefore, it is imperative to explore biophysical parameters related to RF-EMF exposure and causative factors, first.