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April 2, 2019

TO: Lane County Board of Commissioners

FR: Harry Lehmann

RE: 5G Science, Government Liability
and The Long Con

Dear Commissioners Bozievich, Farr, Berney, Sorenson and Buch

I am in a break between appearances in Court in California. This letter is a ten minute piece, best I can do, but will include elements from other documents, admittedly pasted in quickly, but you will find the data well authenticated. Most important, please see the letter from Dr. Golomb, a full Professor at the University of California School of Medicine, San Diego, which references more than 360 sources to the same effect, non-ionizing microwave radiation is dangerous to health. I personally lost four people from my circle of friends and colleagues, one of which was my most trusted friend, which propelled me into this area of study several years ago. I am an unimportant trial lawyer from California, but a science and engineering lawyer by background and would not write were the science not strong. The enclosed February 21, 2019 letter to our Board of Supervisors of the County of Marin is the most thorough compact summary of the EMF issues, including 5G and governmental liability currently known to me. I am familiar with Eugene as our daughter is a Duck.

Knowing that the enclosed is thick, mostly with scientific citation, my purpose with this cover letter is to outline some key points in a condensed way.

The 9th Circuit Cases

The law on this subject is the subject of intense litigation in the 9th Circuit, transferred from the 10th, which will decide whether FCC has the legal capacity to seize your County's property. No applications should be granted, due to uncertainty alone, until that matter is decided. I cannot take the time for full citation but will provide later if asked.

The Long Con

All of us, including myself, have been the recipients of a Long Con by the Cellular

Telephone Industry Association. For clear and convincing data on this point, well-researched history, see the March 29, 2018 edition of The Nation magazine, here is the link to the article which describes this advertizing history:

<https://www.thenation.com/article/how-big-wireless-made-us-think-that-cell-phones-are-safe-a-special-investigation/>

For further data showing the industry intentionally, using this very term, tried to ‘war game’ the scientific work of Dr. Henry Lai, who first proved DNA damage from cellular radiation, conduct an Internet search for: “Dr. Henry Lai Seattle Magazine” . I regret that the ten minutes I can take to paste this together for Lane County doesn’t allow full discussion.

The Science

The industry’s position is that living tissue cannot be damaged by the non-ionizing radiation from cellular devices, essentially they pitch that: *“Non-ionizing radiation does not have sufficient power to displace an electron from its shell. Therefore it is impossible as a matter of well-understood physics for microwave radiation to cause any direct non-thermal **ionic** effect (meaning directly caused chemical change) in tissue.”* To understand the industry argument it is necessary to remember valence from our high school chemistry classes. I hope scientists who read this, challenging or not, will feel that the industry point, ***which is the basis for the FCC safety standards***, has been fairly stated below:

- 1) The involved non-ionizing radiation does not have the ability to cause an electron to jump shell, so that:
- 2) Since an electron cannot be forced from shell, there is no change in the ratio between protons and electrons in the involved atoms, which ratio, in chemistry, is ‘**valence**.’
- 3) If there is no change in valence ratio, there is no possibility of forced **ionic** recombination at an atomic level. Without a change in valence there can be no forced “ionic,” or direct chemical change.

The following definition which provides illustration: ***“Ionic bonding is the complete transfer of valence electron(s) between atoms. It is a type of chemical bond that generates two oppositely charged ions. In ionic bonds, the [metal] loses electrons to become a positively charged cation, whereas the nonmetal accepts those electrons to become a negatively charged anion.”***

In saying that it is impossible for non-ionizing radiation to force ionic injury to tissue, the industry has been making a correct general statement of physical principle, and then incorrectly extrapolating the industry **and now FCC** pitch that: *The only scientifically sensible explanation for damage to tissue is where prolonged close encounter caused microwave induced **thermal** damage to tissue.*

Contrary to the industry pitch, there exist scientifically supported separate mechanisms through which demonstrate that his non-ionizing radiation has sufficient power to tear apart living tissue. There is an annotated explanation of this in the Causation section of the July 19, 2017 letter submitted in opposition to SB 649, which can be found at www.greenswan.org .

The vibratory nature of DNA strand breakage is illustrated in the University of Maryland interferometer experiments of 1983. As I recall it, citations in the letter, the University of Maryland interferometer study showed that addition the of a 7.43 percent constituent of DNA into plain water (from DNA salts put into the resulting solution level of said 7.43 percent), caused a 24 fold (meaning **24 times**) increase in Specific Absorption Rate (how much energy the fluid absorbed), ***which change in energy absorption was determined to be non-ionic, but rather 'acoustic.'*** Which means, to my understanding that: A transmitted vibration within a medium having the ability to do work at the recipient target within that same medium. In the interferometer study mentioned here, there was molecular change by DNA vibration (energy absorption in the DNA molecule, measured as comparison between the energy penetrating through the plain water compared to penetrating through the DNA solution). Call me sentimental if you want, but I still REALLY love the Ella Fitzgerald Memorex commercial from 1972, check it out.

All these years the industry had been saying, ' the vibration won't hurt you, no harm until you cook.' However, Dr. Henry Lai's findings from the University of Washington School of Medicine proved that DNA strand is broken by exposure to cellular signal, established beyond rational scientific doubt. Dr. Lai's findings have never been disproved, and if industry could have, they would have. It is very worth your time to Internet search for: 'Dr. Henry Lai Seattle Magazine,' and to find the part in that article about where a disclosed industry memo pitched that the company involved needed to 'war game,' against Dr. Lai, as part of a concerted and focused effort to discredit him. Some of these people are nothing more than manipulative materialists who care for nothing but stature and wealth.

The calcium ion analysis from Dr. Martin Pall, late of the University of Washington School of Medicine proves cellular damage: Please see a 15 minute video of his 2015 presentation at The Commonwealth Club event organized by EMF

safety expert Camilla Rees, <https://vimeo.com/132870272> . Dr. Pall's calcium ion conclusions show that tissue damage is multi-axial with DNA strand breakage and calcium ion cell damage both taking place. For access to Dr. Pall's scientific studies on the effects of EMF see: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3780531/> . For the scientist see: https://europaem.eu/attachments/article/131/2018-04_EU-EMF2018-5US.pdf .

Conclusion

This isn't a hobby or a game, this is serious, with the health of the residents of Lane County at stake. At the very least, all decisions on applications should be put off until the decision makers are up to speed on the science, and the outcome of the 9th Circuit litigation is known and understood. This letter will likely have errors I won't have the opportunity to edit out, please forgive due to the circumstances, on a break from Court, during which I personally typed this out.

Very truly yours,



Harry V. Lehmann