Dear Planning and Building Services Commissioners,

The following is information to help to make the right decision in regards to the installation of cell towers proposed for Mendocino County. There has been a lot of controversy in regards to the health effects of cell towers to human health, wildlife health and plant health.

AT&T (at least and possibly not limited to) have hired people that are more educated (for this matter) than the common layperson but not educated enough for this specific matter as world renowned doctors and researchers are. These workers for these company hold a bachelor's degree and/ or a master's degree for specific aspects of this matter such as electrical engineering but not Ph.D. and/ or M.D. degrees. AT&T (at least and possibly not limited to AT&T) representatives have a financial motive that of my opinion have blinded their perception and/ these representatives care more for the finances for their own pockets then for the public. These doctors and researchers that hold sufficient education and knowledge for this matter realized the truth of the negative health effects that these cell towers cause, hence proceeds by these doctors and researchers to proceeded to do what is right, to inform and fight against such wrong installations. Representatives of AT&T and/ supporters for cell tower installations have stated studies that lacked sufficient detail and these studies have been outdated by studies that have been done thereafter these times.

Carcinogenic conclusions and preventions of radio frequency electro magnetic fields (RF-EMF) from and not limited to cell phone tower and/ or towers could be seen to be similar to conclusions and preventions of cigarette smoking. In 1930 the American tobacco company Lucky Strike was the first to use physicians in a published ad that stated: "20,679 Physicians say ‘LUCKIES are less irritating’, 'It's toasted'" and in 1937 Philip Morris published an ad that stated: "These facts accepted by eminent medical authorities...Every case of Irritation of the nose and throat due to smoking cleared completely, or definitely improved." By mid-1950s there was more research published that confirmed tobacco products to cause lung cancer but it wasn't until Jan. 11, 1964, this is approximately 9 years later and 34 years after the first use of "physicians" for such ads that Dr. Luther L. Terry, M.D., the Surgeon General of the U.S. Public Health Service at that time
The radiation from cell tower and towers produce not enough energy to knock an electron out of an atom such as from ionizing radiation but accord to Dr. Martin Blank, Ph.D. "You can get biological reactions in the non-ionizing range." Cellular "stress protein is an indication by the cell in its own language that it (the cell) has come in contact with something that is bad for it (the cell) that is potentially harmful". The human body "only makes the stress proteins when it is in a potentially harmful environment and it makes it with EMF. We have found that it makes it in EMF in the ELF in the lowest frequency range, it makes it in the radio frequency range, we know that it makes it pretty much it makes it the whole spectrum". "Heat shock protein is another name for stress protein". "Same thing with DNA breaks, happens across pretty much the whole spectrum of ionizing and non-ionizing electro-radiation."

In 2012, 29 independent scientists and health experts from around the world created a report about "possible risks from wireless technologies and electromagnetic fields", this included "cell phone towers". This report was named the BioInitiative Report. The bioInitiative (2012 Report) had been prepared by "authors from ten countries, ten holding medical degrees (MDs), 21 PhDs, and three MsC, MA or MPHs. Among these people are three former presidents of the Bioelectromagnetics Society (BEMS), and five full members of BEMS". This report was concluded from "1800 or so new studies" from 2007 to 2012 of the negative health effects of electromagnetic radiation, this included and was not limited to cell phone tower or towers.

These studies overall reported "abnormal gene transcription; genotoxicity and single-and double-strand DNA damage; stress proteins because of the fractal RF-antenna like nature of DNA; chromatin condensation and loss of DNA repair capacity in human stem cells; reduction in free-radical scavengers – particularly melatonin; neurotoxicity in humans and animals, carcinogenicity in humans; serious impacts on human and animal sperm morphology and function; effects on offspring behavior; and effects on brain and cranial bone development in the offspring of animals that are exposed to cell phone radiation during pregnancy". "This is only a snapshot of the evidence presented in the bioInitiative 2012 updated report."

One of the extensive studies done in regards to the health effects resulted from electromagnetic fields exposures specifically from cellular phone exposures at least to rats is the National Toxicology Program carcinogenesis studies of cellular phone radiofrequency radiation in Hsd: Sprague Dawley® SD rats. The National Toxicology Report (NTP) "Report of Partial Findings from the National Toxicology Program Carcinogenesis Studies of Cellular Phone Radiofrequency Radiation in Hsd: Sprague Dawley® SD rats (Whole Body Exposure) "2-year studies" were done "9 hours and 10 minutes per day, over an 18 hour and 20 minute period as exposures cycled between modulations every 10 minutes, 7 days per week for 14 weeks (interim evaluation) or 106 (males) or 107 (females) weeks." These studies exposed these rats to specific absorption rate (SAR) levels of: 0 W/kg, 1.5 W/kg, 3 W/kg, and 6 W/kg of radiofrequency radiation from cell phones for such duration. The Federal Communications Commission (FCC) limit for "public exposure from cellular telephones" is a SAR level of 1.6W/kg). Yes, these studies included "extreme" levels of RF-EMF exposures but these studies also include other subjects exposed to 1.5W/kg, which is below the FCC limit of 1.6W/kg. Both the "extreme" levels of RF radiation and the within FCC limit level of RF radiation of 1.5W/kg showed that in male rats: "there was some evidence of carcinogenic activity, based on incidences of malignant schwannoma in the heart" a rare form of cancer. This study have been supported by world renowned researchers of addition to and not limited to Dr. Anthony Miller, M.D., FRCP and Dr. Martin Blank, Ph.D.

Another extensive study in regards to the negative health effects of electromagnetic fields that was
sufficiently made to safe to human beings and other living beings when human beings and other living beings are exposed to such "technology") plus due to the lack of sufficient preventative implementations after the installation of a cell tower near a school in California at least one town in California, specifically Ripon, California in San Joaquin County learn the hard way and finally got sprint to remove the cell tower from this school property after 8 cancer diagnoses (at least 4 students in this K-8 school diagnosed with cancer) and other health issues including and not limited to digestive issues, headaches, and tiredness.

In addition to cancer the following are other negative health conditions that RF-EMF from cell phone tower and towers cause and/ contribute to. These condition are headache, nausea, malaise, poor concentration, constant simulation, light sleeping, insomnia, virulence of infection or infections. The contribution of negative health conditions from RF-EMF from cell phone tower and towers are: demyelination also known as demyelization, acid reflux, reduction and/ depletion of sufficient minimum levels of Iodine, thyroid abnormality or abnormalities, overall or most of body weight gain, depletion and/ reduction of sufficient minimum levels of boron, hormonal imbalance or imbalances, physical body pain (including and not limited to muscle, nerve and/ bone pain), psychological alterations, retardation including and not limited to mental retardation, psychosis, memory loss, electrohypersensitivity (EHS), neuropathy or neuropathies, fatigue or chronic fatigue.

Today, many doctors believe that electrohypersensitivity (EHS) is not a physical medical condition. In Sweden, EHS is an officially fully recognized physical "functional impairment" after survey studies that showed between 230,000 - 290,000 Swedish men and women of a population of 9,000,000 people report a variety of symptoms when being in contact with electromagnetic field (EMF)-sources. In France, EHS is classified as a "disability". Beginning May 2017, the California Legislature has provided ADA accommodation for people disabled by electromagnetic sensitivities (EMS). This was the first California legislative session to acknowledge EMS and to arrange accommodation and access for the EMF-disabled so that they can participate at hearings.

The website http://www.electrosensitivity.co/legal.html shows many international governments and courts that have recognized electrosensitivity legally as "functional impairment" and/ "disability" plus how exposures of RF-EMF (including and not limited to exposures from cell phone tower) have harmed people.

The late Dr. William J. Rea, M.D. (may Dr. William J. Rea, M.D.'s soul also rest in peace for the positive contributions he has made to the medical society include the medical society of England) was named the world's first professional chair of environmental medicine at the University of Surrey in Guildford, England. In 2011, Dr. William J. Rea, M.D. stated: "The body runs on electricity" and "Strong evidence for EMF field sensitivity exists". This is after studies were done from Dr. William Rea, M.D.'s own behalf. By 2011, Dr. William Rea, M.D. had found "3000 patients that were electrically sensitive" at his own practice alone. Dr. William Rea, M.D. continued to state that electrical sensitivity "is a prime promoter of disease" and "since the body works on electricity it is probably the final final thing for health that if we don't pay attention to we are going to have problems".

One resident of Ukiah has parents that was stated to live approximately 70 feet away from a cell tower and both of these two people, the parents of this resident have been diagnosed with cancer.

There is the consideration that people in rural areas need means of communication for emergency situations. For these possible situations, there is technology such as and not limited to devices as
Another problem with cell phone tower and towers is that you can not shut them off as they are locked into leases. This results in residence being force out of their own houses and/ to deal with the negative health condition or conditions that would progress from being exposed to this tower or these towers.

There are options for shielding RF-EMF radiation for houses. Almost all, if not all these options are quite expensive. Many of these options do not shield radiation sufficiently. Many of these options can cause other physical health problem or problems of their own.

Cell phone towers near properties have also be found to decrease these properties financial values. Cell phone towers have also been found to make the selling of such properties near cell phone tower and/ towers harder to sell.

I myself studied Urban and Regional Planning, have real estate developers in my own family. I am also from a family of over 9 M.D. doctors plus doctors of Natural medical proceeds on my biological father's side of the family and over 9 dentist from my biological mother's side of the family plus M.D doctors from this side of the family (one of which is a doctor of the Royal College of Physician and/ the Royal Society of Medicine in England). My studies include (and are not limited to) biophysics, bioelectromagnetics, medicine (including and not limited to environmental), medical, and building biology. I have been and still am dealing with Lyme (conditions, infections, co-infection), demyelination (also known as demyelinization), EHS and other physical health conditions. For some reason, when I proceed to do what is right other people interpret this as myself trying to take their job. No, I am not looking to take your job, I am just doing what is right, which is to inform. Many of the locals in this area and I know that this "technology" is not for us.

I hope this information is helpful to help you all to make the right decision. Apologies for the extensiveness of this letter and for the short time left for you to read this letter. I hope you all have a great day.

Thank you,
Navid Farah
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Ms. Julie Korenstein
Board Member
Los Angeles Unified School District,
Board of Education
333 South Beaudry Avenue, 24th Floor
Los Angeles, CA 90017

Re: Health effects of cell tower radiation

Dear Ms. Korenstein,

As an active researcher on biological effects of electromagnetic fields (EMF) for over twenty five years at Columbia University, as well as one of the organizers of the 2007 online Bioinitiative Report on the subject, I am writing in support of a limit on the construction of cell towers in the vicinity of schools.

There is now sufficient scientific data about the biological effects of EMF, and in particular about radiofrequency (RF) radiation, to argue for adoption of precautionary measures. We can state unequivocally that EMF can cause single and double strand DNA breakage at exposure levels that are considered safe under the FCC guidelines in the USA. As I shall illustrate below, there are also epidemiology studies that show an increased risk of cancers associated with exposure to RF. Since we know that an accumulation of changes or mutations in DNA is associated with cancer, there is good reason to believe that the elevated rates of cancers among persons living near RF towers are probably linked to DNA damage caused by EMF. Because of the nature of EMF exposure and the length of time it takes for most cancers to develop, one cannot expect "conclusive proof" such as the link between helicobacter pylori and gastric ulcer. (That link was recently demonstrated by the Australian doctor who proved a link conclusively by swallowing the bacteria and getting the disease.) However, there is enough evidence of a plausible mechanism to link EMF exposure to increased risk of cancer, and therefore of a need to limit exposure, especially of children.

EMF have been shown to cause other potentially harmful biological effects, such as leakage of the blood brain barrier that can lead to damage of neurons in the brain, increased micronuclei (DNA fragments) in human blood lymphocytes, all at EMF exposures well below the limits in the current FCC guidelines. Probably the most convincing evidence of potential harm comes from living cells themselves when they start to manufacture stress proteins upon exposure to EMF. The stress response occurs with a number of potentially harmful environmental factors, such as elevated temperature, changes in pH, toxic metals, etc. This means that when stress
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News Release

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LOS ANGELES BOARD OF EDUCATION MEMBERS VOTE TO PROHIBIT CELL PHONE TOWERS NEAR SCHOOLS

Los Angeles – The “Wireless Telecommunication Installations” resolution, which opposes the location of cell phone towers in close proximity to schools, was introduced by Los Angeles Unified School District Board Member Julie Korenstein and adopted earlier this week by the Los Angeles Board of Education.

This resolution will ensure individuals, especially children, are protected from the potential health effects associated with exposures to extremely low frequency electromagnetic and radio-frequency radiation.

"With this resolution, we will continue to protect our children by working with cities, counties, and local municipalities regarding cell phone towers," said Korenstein. "With their help, we will provide safer schools for many generations to come."

In an effort to combat this critical issue, the Office of Environmental Health and Safety (OEHS) has requested cities, counties, and local municipalities responsible for zoning approval to provide timely notification when new cellular permit applications are filed.

One of many new roles of the OEHS will be to challenge these municipalities to show that the proposed cellular installations are in compliance with Federal Communications Commission (FCC) regulations. In the event FCC compliance has not been demonstrated, OEHS will take appropriate and reasonable action to appeal proposed installations.

The debate over the safety of school-based towers has been going on for many years. There is growing scientific evidence that the electromagnetic radiation they emit, even at low levels, is dangerous to human health. In 2000, the Board of Education passed a resolution authored by Board Member Korenstein restricting cell phone towers on its school sites. Recently, an Oregon district also banned them on school grounds.

Interim Director of the OEHS, Yi Hwa Kim said, "To ensure the health and safety of our students, it is critical that the District receive timely notification of these projects and is given ample opportunity to evaluate compliance with federal guidelines."

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