

**Bliss, Sandi**

3.1

**From:** rhianna miller <miller.rhianna12@gmail.com>  
**Sent:** Friday, December 6, 2019 1:20 PM  
**To:** Tibbetts, Jack; Olivares, Ernesto; Rogers, Chris; Sawyer, John; Fleming, Victoria; Schwedhelm, Tom; City Clerk; CMOOffice; Gallagher, Sue; Guhin, David; McHenry, Eric; Reeve, Amy  
**Subject:** [EXTERNAL] More cell towers in Santa Rosa

Santa Rosa City Council and staff,

The 30 million dollar, ten year US National Toxicology Program study found DNA damage and clear evidence of cancer from exposure to RFR.

4G is the backbone for 5G. There is no scientific evidence to support any claim of 5G safety! Scientists and public health experts from around the world are calling for a moratorium on 5G.

Protect public health, property values, street views, public safety, and the environment. Deny the 100 + "small cell" towers pending in Santa Rosa. These towers will greatly increase radio frequency radiation (RFR) in Santa Rosa neighborhoods, where people live, work, sleep and play. Peer-reviewed published science shows RFR harms people and nature. Children, the elderly, and those already ill are more vulnerable.

The harmful effects of RFR include: fatigue, headaches, sleep problems, anxiety, ringing in the ears, heart problems, learning and memory disorders, increased cancer risk, and more.

In 2018 Newsweek reported:"Technology is quite literally destroying nature, with a new report further confirming that electromagnetic radiation from power lines and cell towers can disorientate birds and insects and destroy plant health. The paper warns that as nations switch to 5G this threat could increase."

Peer-reviewed studies show worker bees did not return to their hives because of wireless radiation, which led to a colony collapse. Radiation impacts on wild birds documented nest abandonment, plumage deterioration and death. Lab studies of chick embryos documented heart attacks and death. In 2019 the Swiss environmental group Pro Natura reported 5G increases the body temperature of insects.

The telecommunication industry's unbounded profit motive should never outweigh public and environmental safety.

Communications are faster, more reliable, and safer using wired and corded connections.

Thank you for your consideration,  
Rhianna Miller

628 Mill Street  
Santa Rosa, CA 95404

**Bliss, Sandi**

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**From:** Gail Raborn <gailraborn@icloud.com>  
**Sent:** Friday, December 6, 2019 12:50 PM  
**To:** Tibbetts, Jack; Olivares, Ernesto; Rogers, Chris; Sawyer, John; Fleming, Victoria; Schwedhelm, Tom; City Clerk; CMOoffice; Gallagher, Sue; Guhin, David; McHenry, Eric; Reeve, Amy  
**Subject:** [EXTERNAL] Small cell towers pending

Dear Santa Rosa City Council and Staff,

Protect public health, property values, street views, public safety, and the environment. Deny the 100 + "small cell" towers pending in Santa Rosa. These towers will greatly increase radio frequency radiation (RFR) in Santa Rosa neighborhoods, where people live, work, sleep and play. Peer-reviewed published science shows RFR harms people and nature. Children, the elderly, and those already ill are more vulnerable.

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Thank you, Gail Raborn - Santa Rosa citizen



Bliss, Sandi

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**From:** Sandi Maurer <emfsafe@sonic.net>  
**Sent:** Friday, December 6, 2019 11:36 AM  
**To:** Tibbetts, Jack; Olivares, Ernesto; Rogers, Chris; Sawyer, John; Fleming, Victoria; Schwedhelm, Tom; City Clerk; CMOOffice; Gallagher, Sue; Guhin, David; McHenry, Eric; Reeve, Amy  
**Subject:** [EXTERNAL] EMF Safety Network comments for 12/10 study session on "small cell" towers  
**Attachments:** Letter-to-Santa Rosa-small cell.pdf

Please find attached letter to Santa Rosa City Council and staff. This pertains to your 12/10 study session:  
3.1 WIRELESS SMALL CELL DEPLOYMENT ON CITY OWNED STREET LIGHTS AND JOINT UTILITY POLES

Thank you for your consideration and diligence on this important issue.

Sandi Maurer

[www.emfsafetynetwork.org](http://www.emfsafetynetwork.org)

*Save Lives, Save Nature, Reduce EMFs*



PO Box 1016 Sebastopol CA 95473 707-827-0109

[www.emfsafetynetwork.org](http://www.emfsafetynetwork.org)

*Save Lives, Save Nature, Reduce EMFs*

To: City of Santa Rosa  
100 Santa Rosa Avenue  
Santa Rosa, CA 95404

RE: 12/10 3 pm study Session: WIRELESS SMALL CELL DEPLOYMENT ON CITY OWNED STREET LIGHTS AND JOINT UTILITY POLES

Santa Rosa City Council and staff,

You have before you pending applications for 100 plus “small cell” towers to be deployed in Santa Rosa. These towers would lay the groundwork for 5G. The proposed towers would add unsightly equipment, overload poles, devalue property, and greatly increase radio frequency radiation (RFR) in Santa Rosa neighborhoods, where people live, work, sleep and play. Peer-reviewed published science shows RFR can cause a wide range of health problems: sleep problems, heart arrhythmias, anxiety, headaches, ringing in the ears, cancer and more. Peer-reviewed published science shows RFR is harmful to the environment. Children, the elderly, and those already ill are more vulnerable.

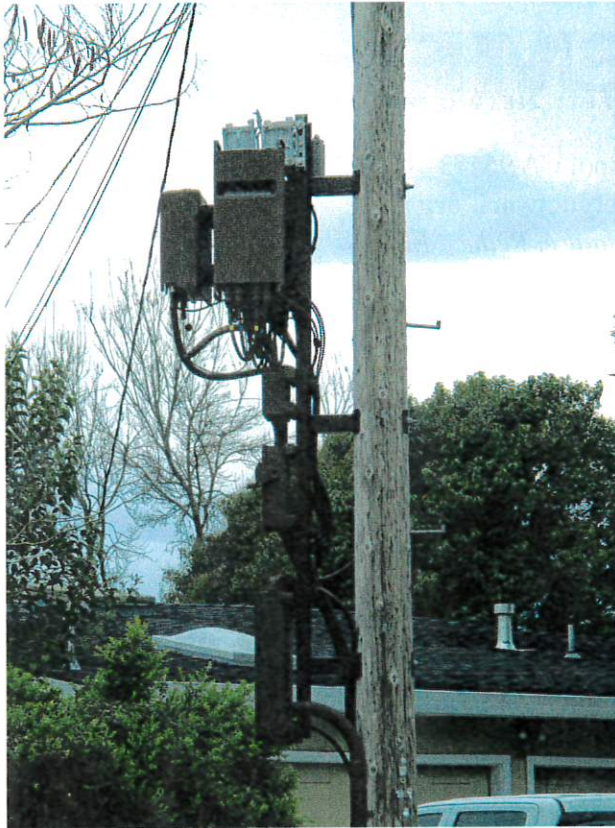
EMF Safety Network<sup>1</sup> requests the City Council deny the towers to protect the health, safety, and welfare of the community.

Attorney Gail Karish of Best Best and Krieger (BBK)<sup>2</sup> outlined the legal reasons a California city can deny “small cell” towers in the public rights-of-way. In general, cities still have some control over cell towers, including visual impacts and aesthetics, lack of a significant coverage

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<sup>1</sup>EMF Safety Network (EMFSN) is a Sebastopol based non-profit project founded in 2009. Our mission is to educate and empower people by providing science and solutions to reduce EMFs, achieve public policy change, and obtain environmental justice. We have participated in EMF issues at the local, state and federal level. [www.emfsafetynetwork.org](http://www.emfsafetynetwork.org)

<sup>2</sup> <http://emfsafetynetwork.org/wp-content/uploads/2018/04/April-24-2018-Letter-to-EMF-Safety-Network-re-Wireless-cl.pdf>



gap, public utilities code protections, land use, and process rights. *Since this letter was written the Federal Communications Commission (FCC) has passed WT Docket 17-79 which went into effect on 1/13/2019. This is not included in the attorneys letter. The order adopts: new shot clock deadlines; limits on fees; and new standards governing aesthetic, undergrounding, and spacing requirements.*

**“Small cell” is a junkyard on a pole.**

“Small cell” towers are not small, they are many feet taller than other telephone poles and loaded with electrical equipment. These photos to the left are of “small cell” towers on Link Lane and Sebastopol Road in Santa Rosa.

Overloading poles can cause a tower to fall or spark a fire like what happened in Malibu in 2007. *“When Santa Ana winds swept through the canyon on Oct. 21, 2007, three utility poles next to Malibu Canyon Road toppled and ignited the fire. The blaze burned 3,836 acres and destroyed or damaged dozens of structures and vehicles. The poles were jointly owned by SoCal Edison, AT&T Mobility, Verizon Wireless and NextG*

*Networks of California.*”<sup>3</sup> (Note the Sebastopol Rd. tower in the photo on the left was newly installed and already leaning.)

**“Small cell” energy output is similar to a macro cell according to expert:** Lee Afflerbach, P.E., Principal Engineer, who was hired by the City of Sonoma said: *“To get around the capacity issue -- it's because so many people are streaming video and other services like that, they [Verizon] have to have multiple sources for this. That's why we have the smaller cells because each cell is capable of almost putting out the same energy as one macro cell.”*<sup>4</sup>

**Loss of property value:** Home or business owners risk property value loss where a cell tower is installed in the neighborhood. A survey by the National Institute for Science, Law & Public Policy found that 94 percent of homebuyers are “less interested and would pay less” for a property located near a cell tower or antenna.<sup>5</sup>

**Public Utilities Code Section 7901** provides that use of the roads by telephone companies cannot “incommode the public use of the road...” The phrase “incommode the public use” in Section 7901 means “to unreasonably subject the public use to inconvenience or discomfort; to unreasonably trouble, annoy, molest, embarrass, inconvenience; to unreasonably hinder, impede, or obstruct the public use.”<sup>6</sup> If ever there was a situation that caused discomfort, or unreasonably troubled residents, it is the case of cell towers near homes. Cell towers emit RFR and peer-reviewed published science shows RFR harms public health and the environment. The International Agency for Research on Cancer at the World Health Organization classifies RFR as a 2B (possible) carcinogen.<sup>7</sup>

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<sup>3</sup> <http://articles.latimes.com/2013/may/20/local/la-me-ln-edison-admits-errors-in-malibu-fire-settles-now-top-60-million-20130520>

<sup>4</sup> At 3:10:24: <https://youtu.be/HRYFXx7oNN4?t=11424>

<sup>5</sup> <https://www.businesswire.com/news/home/20140703005726/en/Survey-National-Institute-Science-Law-Public-Policy#.VNRBpp3F-So>

<sup>6</sup> BBK letter page 2 paragraph 2: <http://emfsafetynetwork.org/wp-content/uploads/2018/04/April-24-2018-Letter-to-EMF-Safety-Network-re-Wireless-cl.pdf>

<sup>7</sup> IARC/WHO <https://goo.gl/BrkpG8>



**Why we cannot rely on the Federal Communications Commission (FCC):** FCC proceedings 13-84 and 03-137 were initiated to determine whether their RFR exposure limits and policies created in 1996 need to be reassessed. These proceedings which were filed in 2013 remain incomplete<sup>8</sup>. The federal government has taken sole responsibility for the radiation safety of personal wireless service deployment<sup>9</sup>, however, no federal agency is acting responsibly, or being accountable for protecting the public and the environment from the health effects of RFR. The science has evolved greatly since 1996 meanwhile wireless devices have been widely adopted, as well as forced upon the public, for example: cell towers, wireless in schools, and smart meters. This rampant explosion is set to get much worse with 5G, Internet of Things, Smart Cities, radar in cars and more.

**The FCC is a regulatory captured agency:** Investigative journalist Norm Alster wrote: Captured Agency: How the Federal Communications Commission is dominated by the industries it presumably regulates.<sup>10</sup> published by Harvard University. Alster calls on the FCC to acknowledge there may be wireless health risks, to back off wi-fi promotion, to acknowledge children and pregnant women may be especially vulnerable, and more. He writes, *“Personally, I don’t believe that just because something can be done it should heedlessly be allowed. Murder, rape and Ponzi schemes are all doable but subject to prohibition and regulation. Government regulators have the responsibility to examine the consequences of new technologies and act to at least contain some of the worst. Beyond legislators and regulators, public outrage and the courts can also play a role but these can be muffled indefinitely by misinformation and bullying.”*

**Peer-reviewed published science shows wireless radiation harms public health.**

The BioInitiative Reports reference more than 3800 peer-reviewed published studies. Summary of key scientific evidence includes:

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<sup>8</sup> On November 27, 2019 the FCC released a resolution essentially denying changes to their RFR guidelines, however comments and reply comments are still pending.

<sup>9</sup> 47 U.S.C. § 332(c)(7); 47 C.F.R. 1.1307(b) and 1.1310, which are based on perceived harm of overheating of human tissues by RFR.

<sup>10</sup> [http://ethics.harvard.edu/files/center-for-ethics/files/capturedagency\\_alster.pdf](http://ethics.harvard.edu/files/center-for-ethics/files/capturedagency_alster.pdf)

- Evidence for Damage to Sperm and Reproduction
- Evidence that Children are More Vulnerable
- Evidence for Effects on Autism (Autism Spectrum Disorders)
- Evidence for Electrohypersensitivity
- Evidence for Effects from Cell Tower-Level RFR Exposure
- Evidence for Effects on the Blood-brain Barrier
- Evidence for Effects on Brain Tumors
- Evidence for Effects on Genes (Genotoxicity)
- Evidence for Effects on the Nervous System (Neurotoxicity)
- Evidence for Effects on Cancer (Childhood Leukemia, Adult Cancers)
- Melatonin, Breast Cancer and Alzheimer's Disease
- Stress, Stress Proteins and DNA as a Fractal Antenna

*“There is now much more evidence of risks to health affecting billions of people world-wide. The status quo is not acceptable in light of the evidence for harm.”* David O. Carpenter, MD, co-editor Bioinitiative Report. The authors conclude, *“EMF and RFR are preventable toxic exposures. We have the knowledge and means to save global populations from multi-generational adverse health consequences by reducing both ELF and RFR exposures. Proactive and immediate measures to reduce unnecessary EMF exposures will lower disease burden and rates of premature death.”*<sup>11,12</sup>

The 30 million dollar, ten year US National Toxicology Program (NTP) study, which is one of the largest and most comprehensive studies on cell phone radiation and cancer found clear evidence of cancer from exposure to wireless radiation. NTP scientists also found that RFR expo-

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<sup>11</sup> BioInitiative Reports [www.bioinitiative.org](http://www.bioinitiative.org)

<sup>12</sup> <https://ecfsapi.fcc.gov/file/7022117727.pdf>

sure was associated with an increase in DNA damage.<sup>13</sup> *A recent Italian study produced similar results.*<sup>14</sup>

**International scientists are calling for immediate measures to reduce RFR.** The International EMF Scientist Appeal<sup>15</sup> signed by 235 scientists from 41 nations warn: *“We are scientists engaged in the study of biological and health effects of non-ionizing electromagnetic fields (EMF). Based upon peer-reviewed, published research, we have serious concerns regarding the ubiquitous and increasing exposure to EMF generated by electric and wireless devices. These include—but are not limited to—radiofrequency radiation (RFR) emitting devices, such as cellular and cordless phones and their base stations, Wi-Fi, broadcast antennas, smart meters, and baby monitors as well as electric devices and infra-structures used in the delivery of electricity that generate extremely-low frequency electromagnetic field (ELF EMF).” “Effects include increased cancer risk, cellular stress, increase in harmful free radicals, genetic damages, structural and functional changes of the reproductive system, learning and memory deficits, neurological disorders, and negative impacts on general well-being in humans.”*

The following are quotes from science experts who signed the The International EMF Scientist Appeal.<sup>16</sup>

- *“Based upon epidemiological studies there is consistent evidence of increased risk for brain tumors (glioma and acoustic neuroma) associated with use of wireless phones.”* Lennart Hardell, MD, PhD University Hospital, Orebro, Sweden
- *“The harmful effects of electromagnetic fields, regardless of their frequencies, are now scientifically settled. Pregnant women (the fetus) and children and adolescents are particularly vul-*

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<sup>13</sup> NTP cell phone study, general info <http://ntp.niehs.nih.gov/results/areas/cellphones/index.html>

<sup>14</sup> Report of final results regarding brain and heart tumors in Sprague-Dawley rats exposed from prenatal life until natural death to mobile phone radio frequency field representative of a 1.8 GHz GSM base station environmental emission  
<https://www.sciencedirect.com/science/article/pii/S0013935118300367>

<sup>15</sup> EMF Scientist appeal <https://www.emfscientist.org/index.php/emf-scientist-appeal>

<sup>16</sup> <https://www.emfscientist.org/index.php/science-policy/expert-emf-scientist-quotations>

nerable.”- Dominique Belpomme, MD, MPH, Paris V Descartes University, European Cancer & Environment Research Institute.

- “U.S. regulatory standards and international guidelines only control for short-term heating of tissue. The standards do not protect us from the low-intensity, chronic exposures to electromagnetic fields (EMF) that are common today. The scientists who signed the Appeal request that the UN and member nations protect the global human population, and animal and plant life from EMF exposures. There has been strong support from the international scientific community for the Appeal, even among those who believe that scientists should not take public policy positions. Some have taken personal risks to sign the Appeal because this is a public health issue that affects everyone now, as well as future generations.” Joel Moskowitz, Ph.D., Director of the Center for Family and Community Health, School of Public Health, University of California, Berkeley, USA

### **Proximity to RFR antennas is harmful**

The following peer-reviewed, published studies examine the adverse effects of wireless radiation in relation to antenna location.

- Biological effects from exposure to electromagnetic radiation emitted by cell tower base stations and other antenna arrays “Both anecdotal reports and some epidemiology studies have found headaches, skin rashes, sleep disturbances, depression, decreased libido, increased rates of suicide, concentration problems, dizziness, memory changes, increased risk of cancer, tremors, and other neurophysiological effects in populations near base stations.”<sup>17</sup>
- Neurobehavioral effects among inhabitants around mobile phone base stations “The prevalence of neuropsychiatric complaints as headache (23.5%), memory changes (28.2%), dizziness (18.8%), tremors (9.4%), depressive symptoms (21.7%), and sleep disturbance (23.5%) were significantly higher among exposed inhabitants than controls...”<sup>18</sup>

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<sup>17</sup><http://www.nrcresearchpress.com/doi/pdf/10.1139/A10-018?src=recsys&>

<sup>18</sup> Neurobehavioral effects among inhabitants around mobile phone base stations <https://www.ncbi.nlm.nih.gov/pubmed/16962663>

- Epidemiological Evidence for a Health Risk from Mobile Phone Base Stations “We found that eight of the 10 studies reported increased prevalence of adverse neurobehavioral symptoms or cancer in populations living at distances < 500 meters from base stations.”<sup>19</sup>

### **Peer-reviewed, published science shows RFR harms nature**

The US Department of the Interior states RFR threatens birds, and criticizes the FCC’s radiation guidelines, stating, “the electromagnetic radiation standards used by the Federal Communications Commission (FCC) continue to be based on thermal heating, a criterion now nearly 30 years out of date and inapplicable today.” Two hundred forty-one bird species suffer mortality risk from both tower collisions and from exposure to the radiation towers emit. This includes birds that are endangered or threatened, Birds of Conservation Concern, migratory birds, and eagles. Studies of radiation impacts on wild birds documented nest abandonment, plumage deterioration and death. Birds studied included House Sparrows, White Storks, Collared Doves, and other species. Studies in laboratories of chick embryos documented heart attacks and death.<sup>20</sup> Scientists in Germany studied tree damage in relation to wireless radiation from 2006-2015. They monitored, observed and photographed unusual or unexplainable tree damage, and measured the radiation which the trees were exposed. “The aim of this study was to verify whether there is a connection between unusual (generally unilateral) tree damage and radio frequency exposure.” They found significant differences between the damaged side of a tree facing a phone mast and the opposite side, as well as differences between the exposed side of damaged trees and all other groups of trees in both sides. The scientists concluded, “Statistical analysis demonstrated that electromagnetic radiation from mobile phone masts is harmful for trees.”<sup>21</sup> The following studies show insects are harmed by radiation:

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<sup>19</sup> Epidemiological Evidence for a Health Risk from Mobile Phone Base Stations <https://goo.gl/Zz6dhhk>

<sup>20</sup> US Department of Interior letter and background: [http://www.ntia.doc.gov/files/ntia/us\\_doi\\_comments.pdf](http://www.ntia.doc.gov/files/ntia/us_doi_comments.pdf)

<sup>21</sup> Radiofrequency radiation injures trees around mobile phone base stations. <https://www.ncbi.nlm.nih.gov/pubmed/27552133?dopt=Abstract#>

- Food collection and response to pheromones in an ant species exposed to electromagnetic radiation found exposure to radiation caused colony deterioration and affected social insects' behavior and physiology.<sup>22</sup>
- Oxidative and genotoxic effects of 900 MHz electromagnetic fields in the earthworm concluded radiation caused genotoxic effects and DNA damage in earthworms<sup>23</sup>.
- Mobile Phone Induced Honey Bee Worker Piping. The study abstract states, "*The worldwide maintenance of the honeybee has major ecological, economic, and political implications.*" Cell phone RFR was tested for potential effects on honeybee behavior. Handsets were placed in the close vicinity of honeybees and the sound made by the bees was recorded and analyzed. The information revealed that active cell phone handsets induced the bees worker piping signal. "*In natural conditions, worker piping either announces the swarming process of the bee colony or is a signal of a disturbed bee colony.*"<sup>24</sup>

The following are observations by International scientists of RFR effects on nature<sup>25</sup> :

- "*Migratory birds -- incredibly important to the global economy and for the ecological services they provide -- now appear to be negatively affected by non-ionizing radiation.*" Dr. Albert Manville, Adjunct Professor, Johns Hopkins University; Senior Wildlife Biologist, U.S. Fish & Wildlife Service (FWS), Emeritus/Retired
- "*Man-made electromagnetic fields impact all living organisms, acting first on the unit membrane. We must reduce our dependence on 'wireless' technologies, reduce the numbers of masts (i.e., cell towers), of Wi-Fi apparatus, of cordless phones and so on, and clearly indicate, in public spaces, the intensity of the ambient electromagnetic field.*" Prof. Marie-Claire Cammaerts, PhD., Free University of Brussels, Faculty of Science, Belgium.

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<sup>22</sup> Food collection and response to pheromones in an ant species exposed to electromagnetic radiation  
<https://www.ncbi.nlm.nih.gov/pubmed/23320633>

<sup>23</sup> Oxidative and genotoxic effects of 900 MHz electromagnetic fields in the earthworm *Eisenia fetida*.  
<https://www.ncbi.nlm.nih.gov/pubmed/?term=23352129>

<sup>24</sup> <https://link.springer.com/article/10.1007/s13592-011-0016-x>

<sup>25</sup> <https://www.emfscientist.org/index.php/science-policy/expert-emf-scientist-quotations>

## **5G millimeter waves are harmful**

The desired future of the telecommunications industry is 5G which incorporates millimeter waves. A 5G deployment would require many cell towers close together throughout communities. Peer-reviewed published science shows millimeter waves penetrate the skin and affect human health.<sup>26</sup> A meta-analysis of studies on millimeter waves (MMWs) "State of knowledge on biological effects at 40–60 GHz"<sup>27</sup> states, "*At the cellular level, it stands out from the literature that skin nerve endings are probably the main targets of MMWs and the possible starting point of numerous biological effects.*" Effects reviewed include effects on capillaries and nerve endings, protein insults, epigenetic regulation, and the risk of homeostasis disruption, which would have dramatic consequences. In addition, millimeter wave technology has been developed as a crowd control weapon which causes acute burning pain, as if the body is on fire.<sup>28</sup>

**International independent scientists have called for a moratorium on the deployment of 5G**<sup>29</sup>. They state, "*We the undersigned, more than 180 scientists and doctors from 35 countries, recommend a moratorium on the roll-out of the fifth generation, 5G, for telecommunication until potential hazards for human health and the environment have been fully investigated by scientists independent from industry.*"

## **Conclusion**

*The telecommunication industry's unbounded profit motive should never outweigh the safety and well being of the public and our environment!* Communications are safer using wired and corded connections.

Respectfully submitted on December 6, 2019:

/s/ \_\_\_\_\_

Sandi Maurer, Director, EMF Safety Network

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<sup>26</sup> State of knowledge on biological effects at 40–60 GHz <https://goo.gl/gbBKHL>

<sup>27</sup> C. R. Physique 14 (2013) 402–411

<sup>28</sup> US Military Active Denial System <http://jnlpw.defense.gov/About/Frequently-Asked-Questions/Active-Denial-System-FAQs/>

<sup>29</sup> <http://emfsafetynetwork.org/wp-content/uploads/2017/11/Scientist-5G-appeal.pdf>





Bliss, Sandi

3.1

**From:** Alaya Babineau <alaya.babineau@gmail.com>  
**Sent:** Sunday, December 8, 2019 10:23 PM  
**To:** Tibbetts, Jack; Olivares, Ernesto; Rogers, Chris; Sawyer, John; Fleming, Victoria; Schwedhelm, Tom; City Clerk; CMOOffice; Gallagher, Sue; Guhin, David; McHenry, Eric; Reeve, Amy  
**Subject:** [EXTERNAL] Cell Towers

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Thank you for your consideration,  
Mia Babineau



**Bliss, Sandi**

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**From:** Raven Fleps <ravendenis@sbcglobal.net>  
**Sent:** Sunday, December 8, 2019 10:22 PM  
**To:** Tibbetts, Jack; Olivares, Ernesto; Rogers, Chris; Sawyer, John; Fleming, Victoria; Schwedhelm, Tom; City Clerk; CMOoffice; Gallagher, Sue; Guhin, David; McHenry, Eric; Reeve, Amy  
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**We urge you to deny the proposed cell towers for the health of our community!**

Thank you for your consideration,  
Raven and Denis Fleps  
4380 Montgomery Drive, Santa Rosa



**From:** lendri purcell <lendrip@gmail.com>  
**Sent:** Saturday, December 7, 2019 3:30 PM  
**To:** Tibbetts, Jack; Olivares, Ernesto; Rogers, Chris; Sawyer, John; Fleming, Victoria; Schwedhelm, Tom; City Clerk; CMOoffice; Gallagher, Sue; Guhin, David; McHenry, Eric; Reeve, Amy  
**Subject:** [EXTERNAL] Why you don't want 100 + "small cell" towers in Santa Rosa

Greetings,

My name is Lendri Purcell. I am the president and founder of FACTS, Families Advocating for Chemical and Toxics Safety and the Jonas Family Fund. I live in Petaluma and do a lot of work in Santa Rosa and I do a lot of my shopping there and may be looking at moving up there soon. As part of my work funding environmental health research, I was skeptical when I first saw proposals to study EMF radiation. Once I dove into the science for work and personal reasons (my son's school district gave an IPAD to every kid starting in kindergarten), I was SHOCKED to see how much strong, peer-reviewed science there is showing how dangerous this technology can be and we still have to do so much more research to understand the full non-thermal effects of non-ionizing adiation (for instance to children). That said, given the clear results of the NTP (National Toxicology Program) (gold standard for research-25M federal study), it is clear we need to better study this technology before we unleash it on communities. My city council did their homework. Concerned citizens gave them the studies and they turned down Verizon's application and created set-backs for new towers that prevents the small-cell catastrophic roll-out. Please do you homework and read the science, the NTP, the Bioinitiative, the scientific statements, Babysafe Project, Environmental Health Trust, Physicians for Safe Technology, Americans for Responsible Technology and understand that the FCC is not supposed to regulate EMF safety (they explicitly say there are not a safety group). Also, see Harvard Ethics Review Paper- FCC Captured Agency. Also, you need to know that the last insurer of EMFs, Lloyd's of London dropped EMFS due to health concerns. Finally, there are studies about how property values shrink for people who live near cell towers. Please keep Santa Rosa safe. So many cities around the country are bagging this dangerous idea. Stand with them. Sincerely, Lendri Purcel



**Bliss, Sandi**

3.1

**From:** Roberta Godbe-Tipp <robertagodbetipp@gmail.com>  
**Sent:** Saturday, December 7, 2019 12:49 PM  
**To:** Tibbetts, Jack; Olivares, Ernesto; Rogers, Chris; Sawyer, John; Fleming, Victoria; Schwedhelm, Tom; City Clerk; CMOoffice; Gallagher, Sue; Guhin, David; McHenry, Eric; Reeve, Amy  
**Subject:** [EXTERNAL] Re: Small Cell Towers in Santa Rosa

Dear Santa Rosa City Council,

Please protect public health, property values, street views, public safety, and the environment. Deny the 100 + "small cell" towers pending in Santa Rosa. These towers will greatly increase radio frequency radiation (RFR) in Santa Rosa neighborhoods, where people live, work, sleep and play. Peer-reviewed published science shows RFR harms people and nature. Children, the elderly, and those already ill are more vulnerable.

The harmful effects of RFR include: fatigue, headaches, sleep problems, anxiety, ringing in the ears, heart problems, learning and memory disorders, increased cancer risk, and more. The 30 million dollar, ten year US National Toxicology Program study found DNA damage and clear evidence of cancer and from exposure to RFR.

In 2018 Newsweek reported: "Technology is quite literally destroying nature, with a new report further confirming that electromagnetic radiation from power lines and cell towers can disorientate birds and insects and destroy plant health. The paper warns that as nations switch to 5G this threat could increase."

Peer-reviewed studies show worker bees did not return to their hives because of wireless radiation, which led to a colony collapse. Radiation impacts on wild birds documented nest abandonment, plumage deterioration and death. Lab studies of chick embryos documented heart attacks and death. In 2019 the Swiss environmental group Pro Natura reported 5G increases the body temperature of insects.

4G is the backbone for 5G. There is no scientific evidence to support any claim of 5G safety! Scientists and public health experts from around the world are calling for a moratorium on 5G.

The telecommunication industry's unbounded profit motive should never outweigh public and environmental safety. Communications are faster, more reliable, and safer using wired and corded connections.

Thank you for your consideration,

Roberta Godbe-Tipp, Ph.D.





Bliss, Sandi

3.1

**From:** jd@thetahealingintuitive.com  
**Sent:** Saturday, December 7, 2019 1:23 AM  
**To:** City Clerk  
**Subject:** [EXTERNAL] Cell tower concerns

12/7/19

To Santa Rosa City Council and staff:

As a very sensitive (to EMF) citizen of Santa Rosa, I am more than concerned about the 100+ 'small cell' towers being considered in Santa Rosa. These towers WILL increase RFR (radio frequency radiation) in our neighborhoods and workplaces. They WILL affect every person, including all of you. They WILL affect the animals, the bees, the trees, and the birds...everything that we participate with.

Debra Greene, PhD, says that there are no safety studies and that 5G builds on existing infrastructure using extremely high (millimeter-wave) frequencies of 24 gigahertz (GHz) or more. These don't travel far, so antennas will be installed approximately every 2-10 homes in residential neighborhoods and it will significantly increase our wireless RF radiation (radio frequency microwave) exposure on a 24/7 and 365 days a year basis. <https://childrenshealthdefense.org/child-health-topics/known-culprit/electromagnetic/5g-the-global-human-experiment-without-consent>

Big Wireless has made us think that cell phones are safe but it's a disinformation campaign—and massive radiation increase will happen with a 5G rollout. This is a special investigation. <https://www.thenation.com/article/how-big-wireless-made-us-think-that-cell-phones-are-safe-a-special-investigation/>

Tom Wheeler, former head of the FCC during the Obama administration said at a June 2016 FCC 5G Conference in Washington DC about .

No testings, no standards, anything goes

Aimed and amplified signals

Ultra High Frequency-24 to 100 GHz

Rake in Billions

Share with satellites and military

Everything (and everyone?) must be microchipped

All areas including rural saturated with radiation

Bribe local gov'ts reps

Fast track all local deployment

<https://www.youtube.com/watch?v=P5AYRWvjiVg>

In researching, listening to conferences of scientists, and reading the information put out by many research groups, the issue of supporting an industry that has only profit as their motive is a dangerous trend. International independent scientists are calling for reducing RFR based on peer-reviewed published science showing RFR harms the public and nature, and children are especially vulnerable.

**26,000 Scientists Oppose 5G Roll Out** <https://principia-scientific.org/petition-26000-scientists-oppose-5g-roll-out>

Studies found radiation causes a wide range of health impacts: "Effects include increased cancer risk, cellular stress, increase in harmful free radicals, genetic damages, structural and functional changes of the reproductive

system, learning and memory deficits, neurological disorders, and negative impacts on general well-being in humans." There is more information on the adverse health effects of microwave radiation provided at the following link. <https://www.emfscientist.org/>

Sebastopol has already had several deaths due to cell towers. Personal Accounts of Residents of Petaluma and Walker Avenues in Sebastopol, Living Within 500 Feet of The Cell Tower

<http://www.radiation dangers.com/cell-towers/numerous-deaths-and-illnesses-near-cell-tower-in-sebastopol-ca/>

See this letter to Sebastopol which outlines the reasons to oppose 5G and provides peer-reviewed science references: <http://emfsafetynetwork.org/wp-content/uploads/2018/05/Letter-to-Seb-Verizon-5G.pdf>

After close to a dozen people attending and living near a school with a cell tower inside the campus in San Joaquin County, children have been diagnosed with cancer. The parents and officials have had the tower removed. <https://thefreethoughtproject.com/school-removes-cell-tower-cancer/> But the parents say 5G Cell Tower is causing cancer in their children, The District is taking kickbacks <https://prepforthat.com/5g-cell-tower-cancer-san-joaquin-county/>

Even LA Firefighters expose Cell Towers as Giant Microwaves

<https://www.youtube.com/watch?v=0CIaQuqEatc&feature=youtu.be>

Dr. Sharon Goldberg, an internal medicine physician & professor gives her testimony regarding 5g technology dangers specifically involving electromagnetic radiation. She says: "Wireless radiation has biological effects. Period." (diabetes, kidney disease) <https://www.youtube.com/watch?v=1Qt5B39LB7c>

In 2017 Governor Brown vetoed SB 649 which would have created a state mandated system of cell towers every couple hundred feet apart in California. SB 649 would have allowed unlimited refrigerator-size cell equipment on poles, sidewalks, and public property with no safety oversight. 300 cities, 47 counties and over 100 organizations opposed SB 649, including Sonoma County! Dozens of health, environment, consumer and justice organizations representing millions of Californians opposed SB 649 including: Environmental Working Group, Sierra Club California, California League of Conservation Voters, AARP American Association of Retired Persons (CA), Association of Environmental Professionals, Alliance of Nurses for Healthy Environments, Center for Environmental Health, Citizens for Health, The Utility Reform Network, Teens Turning Green, As You Sow, Baby Safe Project, and many more.

I urge you to retain local control and update the telecom ordinance to hold the telecommunications industry accountable. It's important to stop the roll out of 5 G completely. There are Cities like Chattanooga Tennessee, Portland Oregon, Olds Alberta, San Francisco and Seattle – cities that value data privacy, autonomy, local prosperity and wellbeing – have chosen or are choosing community-owned fiber optics. Wired fiber is faster, safer, cheaper, greener, more reliable, and more data secure than wireless 5G.

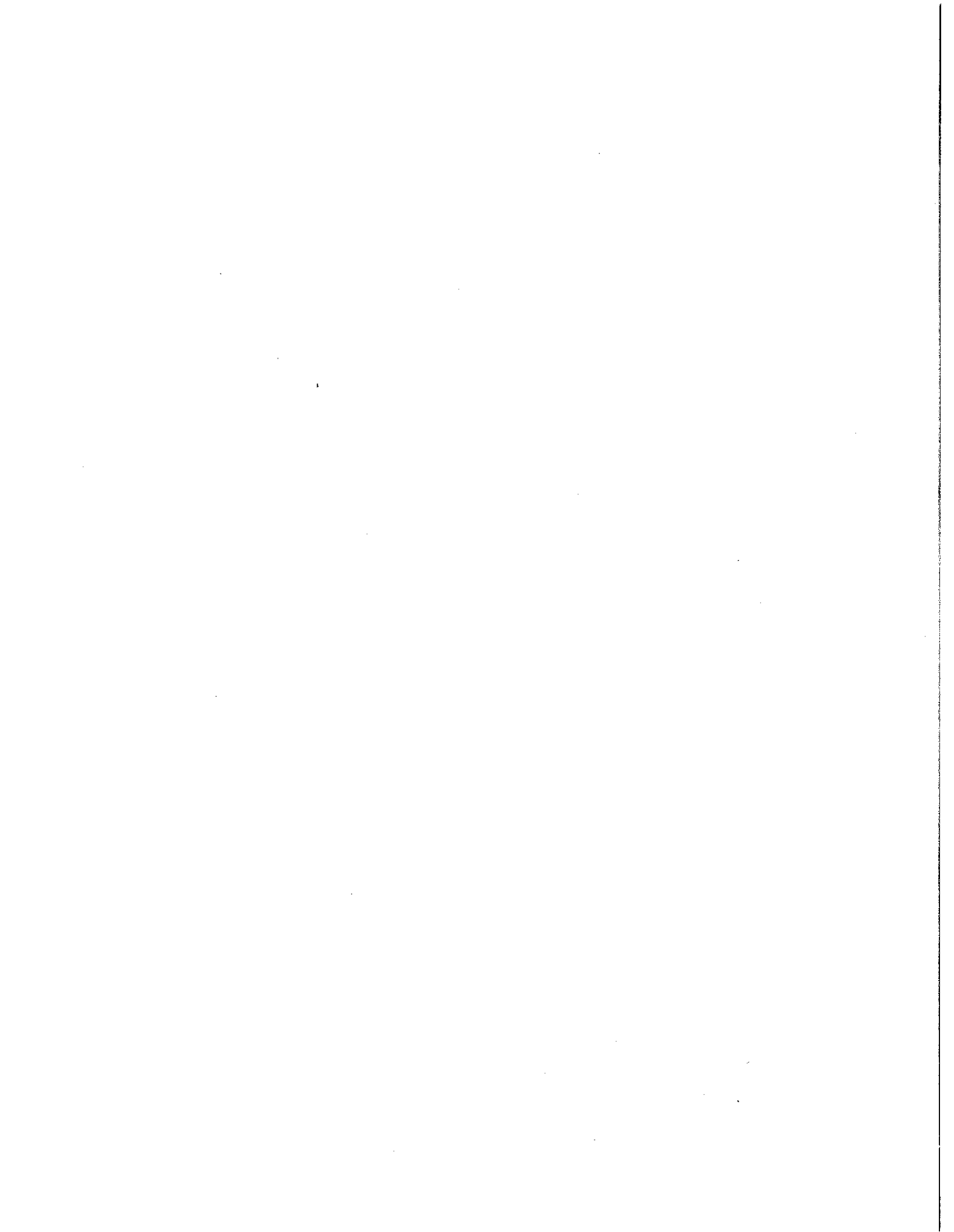
<https://digitalsurvivor.uk/2019/03/23/community-fibre-instead-of-5g/>

Thank you for your consideration,

Rev. Judy Dragon

193 Torzelli Ln.

95407



Bliss, Sandi

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**From:** Dana Davis <dkdavis@sonic.net>  
**Sent:** Friday, December 6, 2019 9:26 PM  
**To:** Tibbetts, Jack; Olivares, Ernesto; Rogers, Chris; Sawyer, John; Fleming, Victoria; Schwedhelm, Tom; City Clerk; CMOOffice; Gallagher, Sue; Guhin, David; McHenry, Eric; Reeve, Amy  
**Subject:** [EXTERNAL] 100 new cell towers in Santa Rosa

Dear Santa Rosa council members,

I am very concerned about the plan to consider allowing 100 new cell towers in Santa Rosa, and also about the new 5G technology. There is a lot of research showing the damaging effects of wireless technology, and especially the new 5G intensification. I use a cell phone rarely and it's a flip phone. I use a wired internet connection. This is all safer in terms of security and also for my health. I don't want to be exposed to more and more wireless radiation everywhere I go.

My 91-year-old mother lives in Santa Rosa, and I don't want her to be exposed to more wireless radiation. And research has shown that people, animals and bees are negatively affected by this.

More cell towers are not needed. I could care less about connecting my refrigerator to my toilet to my cell phone. This is silly conveniences that are being valued more than our health and the beauty of our environment.

Please do not approve any more cell towers, and do not approve 5G technology.

Thank you,  
Dana Davis  
Sebastopol, CA