Before the
Federal Communications Commission
Washington, D.C. 20554

To: Office of the Secretary
Federal Communications Commission
Washington, DC 20554

Comment Filed by: Steven Magee CEng MIET
Environmental Radiation LLC
3618 S. Desert Lantern Road
Tucson, Arizona 85735
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520-505-6558

29th January 2014

AFFIDAVIT OF Steven Magee Ceng MIET BEng Hons

State of Arizona

Pima County

I, Steven Magee, attest that my statements are true to the best of my knowledge.

1. My name is Steven Magee. My address is 3618 S. Desert Lantern Road, Tucson, Arizona 85735.

2. I am a Chartered Electrical Engineer, a Member of the Institution of Engineering and Technology (IET), electromagnetic radiation researcher and author of many books.

3. During many plant tests performed at my home I became aware that I could not grow vines in certain areas of my garden. The area of my garden where the vines will not grow well is the direct line of sight to the west cell phone tower located on the

junction of W. Bopp Road and S. Tucson Estates Parkway approximately 700 meters away. They are clearly being retarded by the radiation transmissions from this direction. The same vines that are not in the line of sight grow vigorously. I would like to invite the FCC to study this effect at my home and request that the approval of cell phone towers is halted by the FCC until this plant retardation effect is fully understood. This is shown in photograph 1 below.

4. Transmitter towers create solar radiation reflections and interference. They also create radio and microwave reflections and interference from other wireless transmission systems in the area. They short circuit the atmospheric layers that they pass through and may increase the rate of lightning strikes in the area if they are taller than the nearby surrounding structures. A complete study should be performed to fully understand these effects in each area that a cell tower is installed into. These effects will be unique to each tower installed. Transmitter towers should not be approved until these effects are fully understood in residential areas. This is shown in Diagram 1 & 2 and photograph 2 below.

5. It appears that transmitter systems short circuit the local atmospheric direct current (DC) voltage layers in the area that they are installed into. This short circuiting of the DC voltage atmospheric layer appears to have links to plant growth defects and metal corrosion. Metal corrosion is widely acknowledged to be driven by DC galvanic effects. A study should be performed by the FCC to fully understand this loss of atmospheric DC voltage in the area before installing transmitter systems into residential areas. I have been able to replace the atmospheric DC voltage in plants by using a 1.5 volt DC battery connected between the roots and the stem of the Dieffenbachia (Dumb Cane) plants and this rectifies the growth defects. This is shown in photograph 3 below.

6. The installation of large amounts of transmitting electronic equipment contaminates the local electrical utility system and home electrical systems in the area with harmonics, dirty electricity and stray voltage/current/frequency. This may turn the ground, utility power lines and poles, streetlights, home electrical wiring and the trees in the area into unlicensed radiation transmitter systems. It may increase the various

fields and emissions from electrical systems. It is known for its harmful affects on animals and plant life and may deform and retard the plants in the area. Transmitter systems should not be approved in residential areas until the effects of injecting large amounts of electronic harmonics, dirty electricity and stray voltage/current/frequency into the surrounding area are fully understood. A stray voltage/current/frequency deformed Dieffenbachia (Dumb Cane) plant is shown in photograph 4 and an electronic stray voltage waveform is shown in oscilloscope waveform 1.

7. I found that my garden was filled with many retarded and deformed plants and that their growth was greatly improved when I removed my wireless devices from service. I have observed the following effects:

8. Found that Smart/AMR/AMI utility transmitting meters can have a toxic effect on the various biological systems that are near to them. The harmful biological effects can occur for at least 76 feet from some of the devices and can kill plants.

9. Found that the radiation emissions from some ionizing smoke detectors can retard cellular growth and may actually kill certain types of plants.

10. Found that wireless radiation puts plants into a dormant state where they follow the changes in the seasons but do not actually grow nor bear fruits. They become sterile and stunted. Removing the wireless radiation exposures resurrects them.

11. Found that wireless radiation affects the growth and branching structure of some plants. Plants that grow tall may instead grow low to the ground.

12. Some vines will not grow into areas of biologically unnatural radiation.

13. Found that wireless radiation fields are patchy and unpredictable. Just moving a few inches can be the difference between a plant being healthy or it being stunted and deformed.

14. Found that pulsed radiation from wireless weather station sensors and wireless utility meters can really retard and deform plants that are close to them. In some cases they will kill the plants.

15. Discovered that certain electromagnetic exposures deform and retard plant growth and when removed, the plant drops all of the previous deformed leaf growth and starts growing normal growth from the tips of electromagnetic exposed part of the plant. The previously exposed part of the plant stays bald.

16. Discovered that certain plants in unnatural radiation fields will only grow leaves on their branch tips at the edge of the plant. The interior of the branches of the plant stay bald. This growth pattern rectifies itself when the unnatural radiation field is removed.

17. Found that the pomegranate tree will drop all of its leaf growth when the harmful wireless radiation field is removed and put up new growth from its base. The existing branches stay bald. The following year, it will put new leaf growth on both the old and new branches and bear fruit.

18. Found that certain plants in biologically unnatural electromagnetic fields will turn their normally patterned leaves into dark green glossy leaves with no patterning. The leaf size of the Dieffenbachia (Dumb Cane) plant varies with the type of electromagnetic exposure. This is shown in photograph 5 below.

19. Found that the human gets painful sensitive teeth for a few weeks after taking domestic wireless devices out of service. It appears to be a withdrawal reaction to the changed radiation environment.

20. My diagnosis of electromagnetic hypersensitivity (EHS) is shown below in diagnosis 1 and 2. This is consistent with the growth defects that are observed in the plants at my home that is between 600 to 700 meters from three separate cell phone towers and all homes in the area have Itron transmitting gas and electric meters installed at them.

21. The rate of Autism has been closely following the rise in cell phones and cell phone towers for the past decade and this is shown below in graph 1. It appears that radio frequency exposure may be affecting brain development in the children.

22. People are now reporting curing Autism by electromagnetically shielding the child's bedroom. This is consistent with Autism being an electromagnetic disease and may indeed be easily preventable.

23. The human is supposed to be exposed to the DC atmospheric voltage and the lack of it may make the human sick and possibly cause development problems in the young. This is shown in diagram 3 below.

24. I observed the following symptoms occurring after the installation of Itron 100G transmitting gas meters in my area in January 2013: January: Fatigue. February: Fatigue, waking up feeling hung over and lethargic. March: Fatigue, waking up feeling hung over and lethargic, fuzzy thinking and concentration problems. April: I abandoned my bed and started to sleep on the floor. I also increased the electromagnetic screening around the transmitting AMR meters. This reduced the severity of the symptoms.

25. I saw Southwest Gas take the manual meter reading at my home in December 2013 while I was out walking with my partner and our baby. A car stopped at our home and two men got out and went into the meter area. They came out and drove off. They were stopped for about two minutes. The car had a large antenna system on the roof which I suspect is how they are currently obtaining the electronic meter readings. My community has both the old (Itron 40G) and the new style (Itron 100G) AMR/AMI gas meters. The old style appears to need to receive a signal from the car to start broadcasting, while the new type broadcasts pulsed radiation continuously. The car drove past us and we were about fifteen feet from the antenna system on its roof. I monitored our health after the AMR/AMI gas meter mobile transceiver car came through our area at lunchtime and I observed the following: Day 1 - Skull pains that were off and on for a few hours. Headache appeared by 15:00 and lasted for a few hours before subsiding on its own. Extreme fatigue showed up at 17:00 and

lasted a couple of hours. I was falling asleep while trying to have a conversation with a guest. Day 2 - Woke up extremely thirsty. Headache developed during the morning that lasted all day. I became nauseous between 15:00 to 18:00. Intestinal pains in the evening. Thought patterns were off with some confusion and forgetfulness. Had to go to bed early due to an intolerable headache. Insomnia through the night. My three month old baby woke up two hours earlier than normal, was fussy, restless and refused to sleep more than half an hour at a time. Her behaviors were distinctly different from her usual routine of sleeping for a couple of hours between feeds. Baby spitting up far more than usual. Day 3 - My partner had to look after the baby as I had become so sick. Got out of bed at 12:00 with a severe headache that lasted all day. Hearing in both ears was showing issues that lasted all day. The sensitivity kept on changing. Baby woke up 2 hours earlier than normal. Baby spitting up far more than usual. Day 4 - Headache all day long. Baby woke up 2 hours earlier than normal. Baby spitting up far more than usual. Day 5 - Skull pains came back and were infrequent during the day. My partner was showing the Neurasthenia symptom of irritability. Baby woke up 2 hours earlier than normal. Baby screamed in pain for two hours and was inconsolable. Day 6, 7 and 8 - Skull pains came back and were infrequent during the day. The above appeared to be the biological reaction to the spike in radiation levels that occurred as all of the AMR transmitting meters in the area started to broadcast their radiation and to the gas company car radio frequency transmitter. I am wondering what radiation is being broadcast from that meter reading car to see such a severe set of reactions. I have not seen such a diverse and severe sickness for quite some time, so it was an unusual event for me. It may not have occurred had I been sitting inside the home as opposed to outside walking with the baby where the man-made radiation levels are much higher. I would suggest that if you see the utility meter reading car in your area, that you should probably go indoors for the rest of the day in order to protect your health. I am sure that you would agree that these are concerning effects from the simple action of having gas meters read by the gas company! My partner had the same exposures and showed much milder effects as she is about three times less sensitive to radiation exposures than I am. She does not have any metal dental bridges that act as an antenna system that I have. I am very concerned that my three month old daughter had this exposure to her ovaries and this may have an impact on her fertility later in

life. We will find out in about four decades from now what her lasting effects are to this exposure. This was clearly a case of electronic assault by the gas utility company on my family. The Tucson utilities Itron AMR/AMI radiation transmitting metering system is by far the most toxic transmitting system that I have come across in three years of biological radio frequency research. It is orders of magnitude more toxic than anything else that I have encountered. I have walked right up to the forest of high powered transmitters in the antenna park on Sandia Peak in Alberqueque, New Mexico, and have not seen reactions anything like this. The radiation levels are so high next to that antenna park that there are posted warnings in the car park! It is likely that many people are adversely reacting to the utility transmitting meter reading car and have not yet associated their sickness that occurs to the biologically harmful exposure. They are likely getting approximately a week of sickness every time it passes through their neighborhood.

26. I observed the following conditions occurring during sitting within 2 feet of a Wi-Fi computer printer in a 1,000 mV/m radiation field daily: Day 1 - Fuzzy thinking. Day 2 - Dizziness, fuzzy thinking, headaches. Day 3 - Dizziness, fuzzy thinking, headaches, insomnia. Day 4 & 5 - Dizziness, fuzzy thinking, headaches, insomnia, fatigue.

27. Regarding wireless radiation exposures, the EMFields Acousticom 2 radio frequency meter manual states: 6 to 3 V/m: Too high for ambient levels. 1 to 0.3 V/m: Too high for many people. 0.1 to 0.05 V/m: Many people have symptoms. 0.02 to 0.01 V/m: Most people with EHS are okay. The Tenmars TM-196 RF meter manual states "We recommend a maximum level of 0.614 V/m for prolonged exposure". It is normal to find yourself sitting and walking around in fields of wireless radiation of approximately 1 V/m in the USA and they can be over 2 V/m in some sidewalks.

28. One of the dilemmas with Radio Wave Sickness (RWS) and Electromagnetic Hypersensitivity (EHS) is to get sick from living in an unnaturally man-made high radiation environment, or to get sick from an electromagnetically screened natural radiation deficient environment. Either way, many humans will eventually get sick! Even pregnant mothers are electromagnetically shielding their unborn babies with a

product called "Belly Armor". This action may eventually make them sick from radiation deficiency problems, similar to what astronauts show that live on the International Space Station for many months. The only known effective solution to RWS and EHS is to return your radiation environment back to natural levels.

29. Radio Wave Sickness (RWS) and Electromagnetic Hypersensitivity (EHS) are rapidly accelerating plagues in modern society. Sweden appears to be the only country that currently recognizes the conditions. In Sweden approximately 300,000 people are registered as having EHS. Sweden has a population of 9,555,893 as reported in the 2012 census. This equates to 3.12 percent of the population, or 1 in 32 people, that is aware that it is being affected by unnatural radiation exposures which include electrical, electronic and wireless systems.

30. Radio Wave Sickness is well categorized today and the top reported radio wave sickness symptoms in order of frequency are: Fatigue, sleep disturbance, headaches, feeling of discomfort, difficulty in concentrating, depression, memory loss, visual disruptions, irritability, hearing disruptions, skin problems, cardiovascular, dizziness, loss of appetite, movement difficulties and nausea. (Source: Symptoms experienced by people in the vicinity of a cellular phone base station, Santini 2001, La Presse Medical.)

31. In 1932, the German doctor Erwin Schliephake appears to be the first person to document the condition of Radio Wave Sickness. He noticed that the onset of symptoms were dependent upon the frequency and one particular frequency would bring on symptoms immediately, while a different frequency would take many hours of exposure to bring on the same conditions in a person. The onset followed this progression: Initial reaction was extensive fatigue that would lead to apathy. Long exposures would bring on classic Neurasthenia symptoms. Prolonged exposure created a dull pressure in the head, headaches that would become intolerable, depression, inferiority, complaining, arguing, and uncertainty in dealing with others. Dr. Erwin Schliephake found that the symptoms would resolve shortly after removal of the radio transmitter. In general, he found that low powered radio frequency (RF)

would cause tranquilizing effects and high powered RF created irritation. The sensitivity was person dependent.

32. Radio frequency exposures are incompatible with the medical and dental practices of installing metal implants into the human body. All metal acts as an antenna system and may induce Radio Wave Sickness or Electromagnetic Hypersensitivity into the human. People with artificial hip implants appear to be the highest risk group, due to this being the largest piece of metal that is generally found in the human body. For this reason, wireless communications infrastructure should not be installed into or near to residential communities.

33. Many websites are now documenting the extensive range of health conditions that are showing up in the USA population from biologically harmful radio frequency radiation exposures. The directory is vast and can be found at: http://www.takebackyourpower.net/directory/us/

34. Videos that support the above points can be found at the StevenMageeBooks channel on youtube: http://www.youtube.com/user/StevenMageeBooks

35. Expanded information on the above points can be found in the second edition of the book "Toxic Electricity" and the third edition of "Toxic Health" which are available on www.amazon.com

36. Further information can be found at http://www.environmentalradiation.com/

Respectfully submitted by: Steven Magee – Chartered Electrical Engineer

Photograph 1

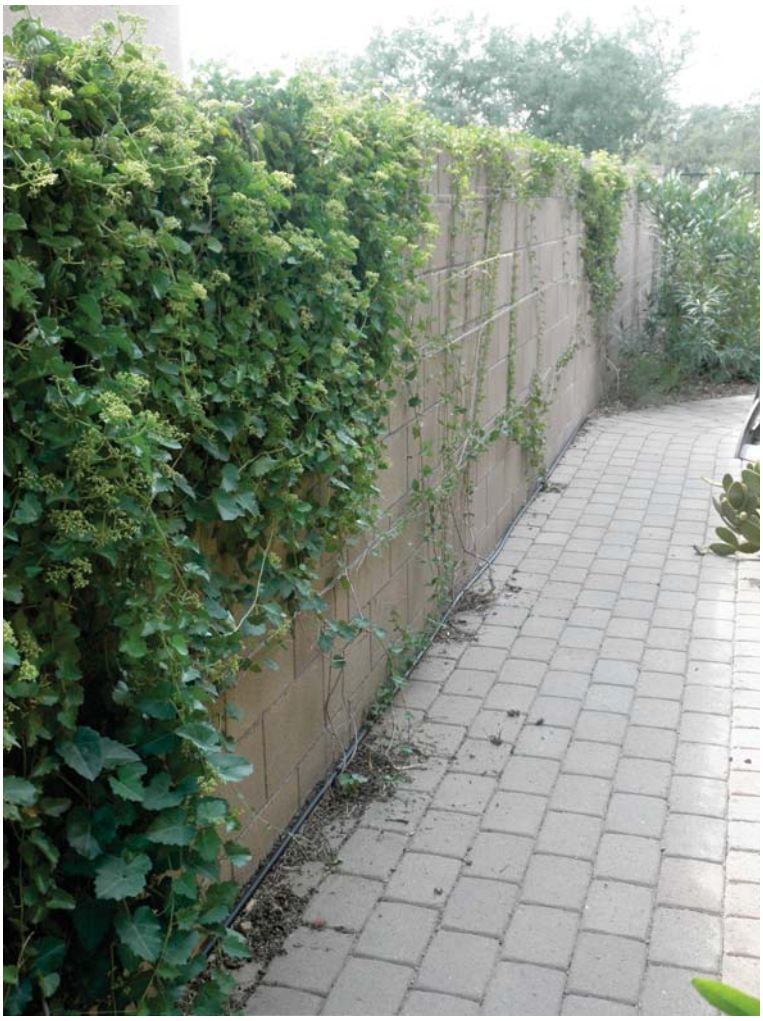
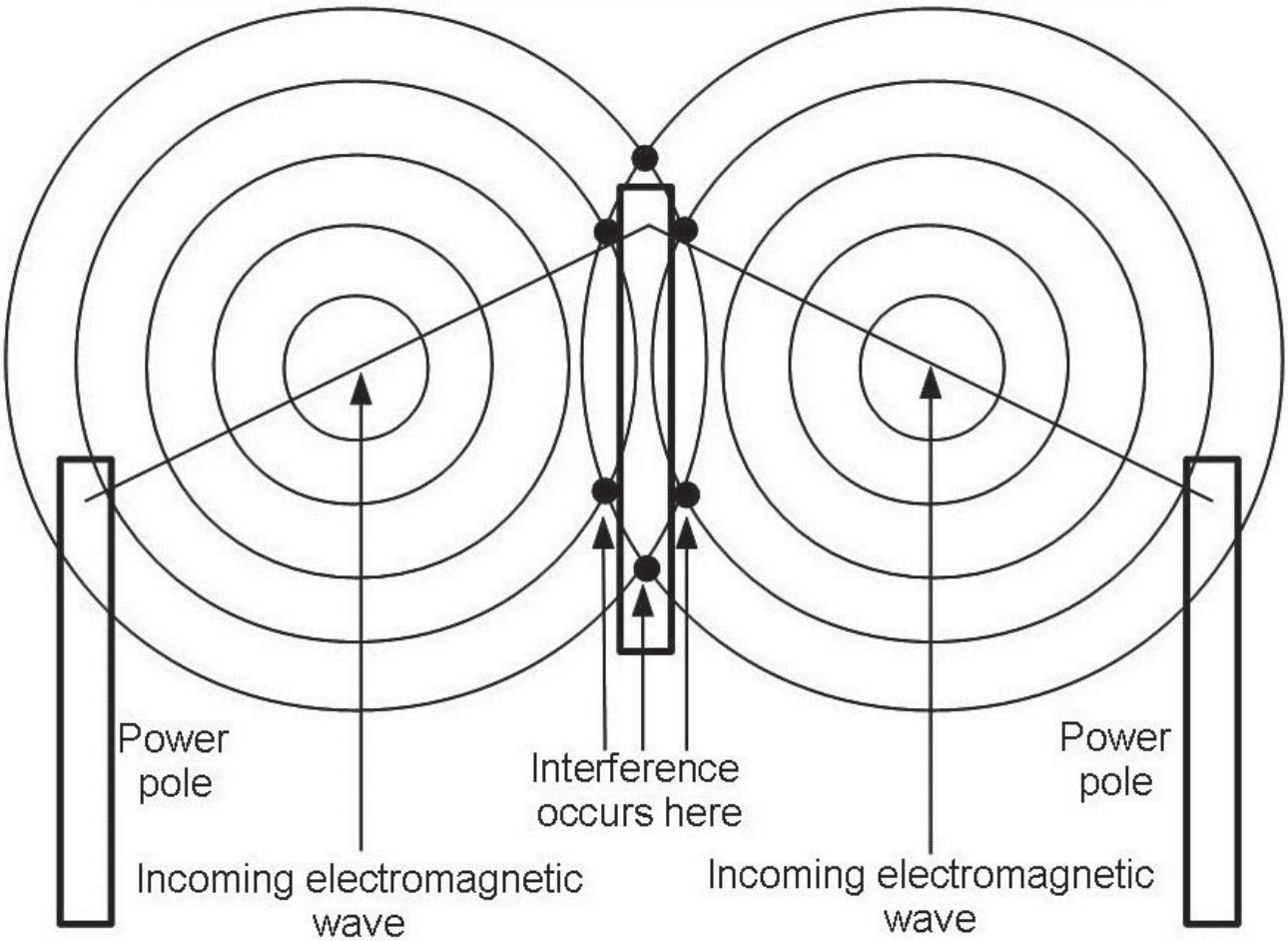


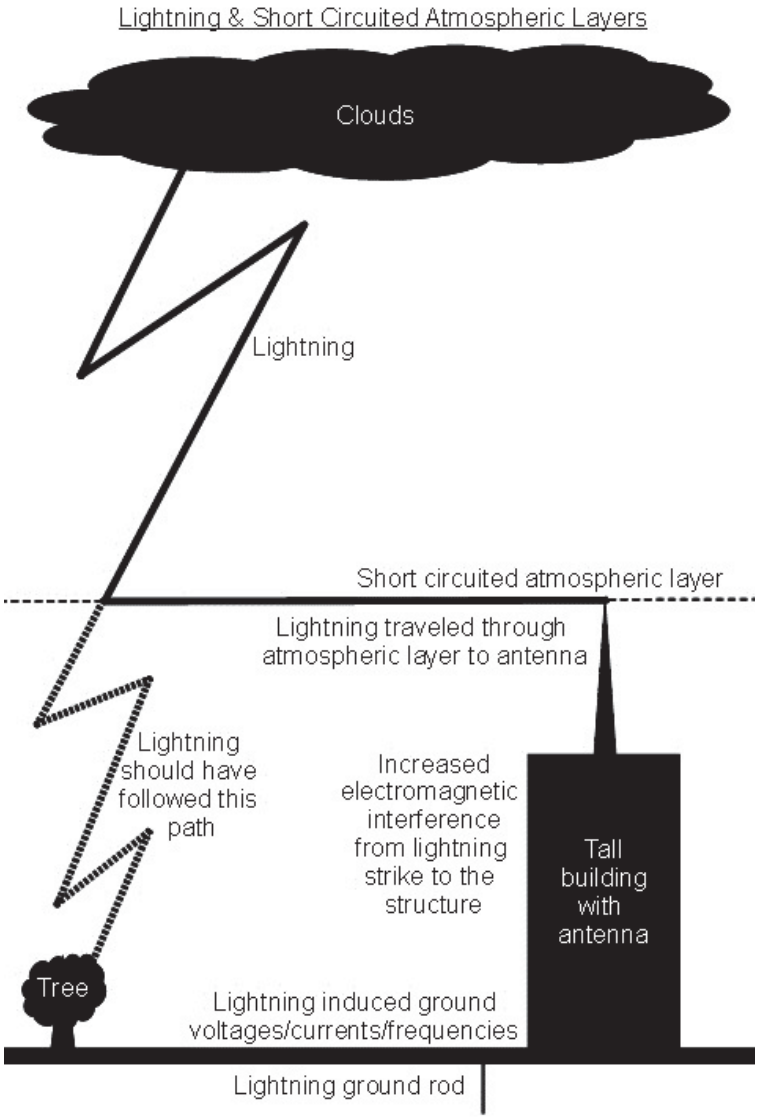
Diagram 1

Power Line Radio Frequency Reflections and Interference



Photograph 2

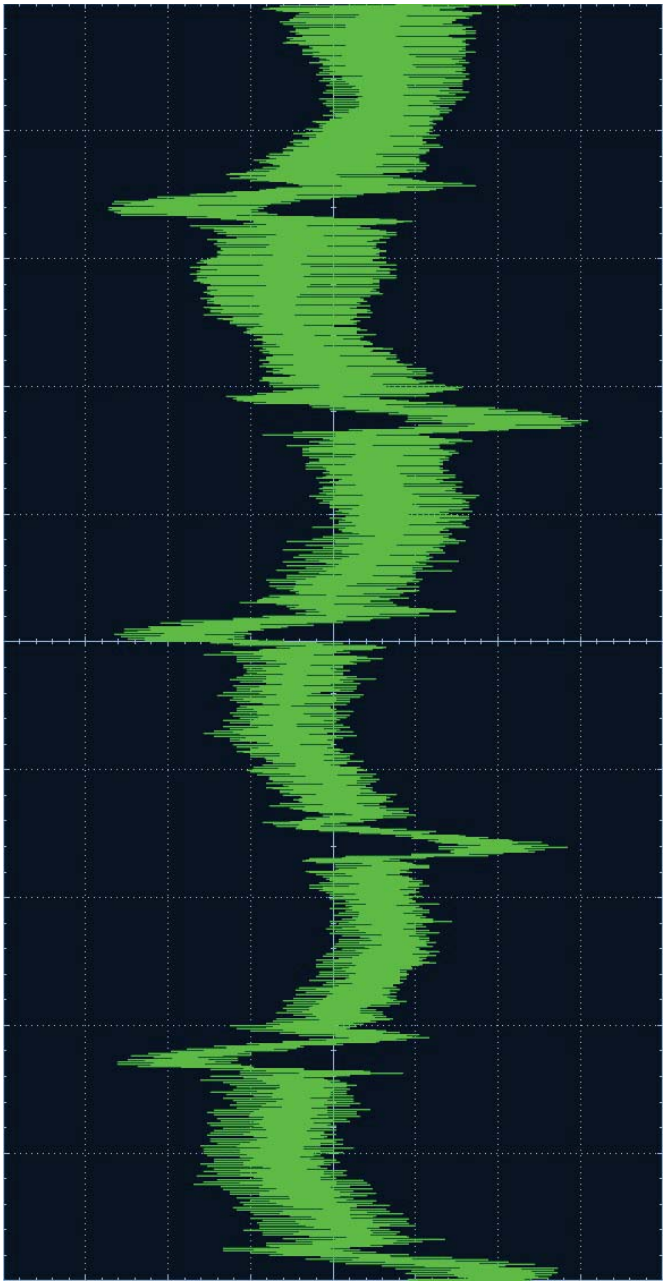
Diagram 2


Lightning & Short Circuited Atmospheric Layers
Clouds
Lightning
Short circuited atmospheric layer
Lightning traveled through atmospheric layer to antenna
Lightning should have followed this path
Increased electromagnetic interference from lightning strike to the structure
Tall building with antenna
Tree
Lightning induced ground voltages/currents/frequencies
Lightning ground rod

Photograph 3

Photograph 4

Oscilloscope Waveform 1



Photograph 5

Diagnosis 1

ROBERT KAPLAN, MD, LLC

June 3, 2013

Southwest Gas
Tucson Electric Power
Tucson Water

RE: Steven Magee
3618 S. Desert Lantern Rd.
Tucson, AZ 85735

I have evaluated Mr. Steven and find that he exhibits signs and symptoms consistent with electromagnetic hypersensitivity. He has been advised to avoid exposure to automatic meter readers (AMRs)/Smart Meters.

Sincerely,

Robert D, Kaplan, MD

P.O. Box 28696 Scottsdale, AZ 85255 (480) 991-7478

Diagnosis 2

DEPARTMENT OF HEALTH & HUMAN SERVICES

Food and Drug Administration
Center for Devices and Radiological Health
10903 New Hampshire Ave.
Document Mail Center – WO66 G609
Silver Spring, MD 20993-0002

SEP 14 2012

Mr. Steven Magee
3618 S. Dessert Lantern Road
Tucson, AZ 85735

Dear Mr. Magee:

Thank you for your letter to the Food and Drug Administration regarding your concerns about public exposures to electromagnetic fields and non-ionizing electromagnetic radiation (EMF). The information in the document you provided is consistent with people who describe themselves as electromagnetically hypersensitive (EHS).

The World Health Organization (WHO) has published a fact sheet about EHS which is available at: http://www.who.int/mediacentre/factsheets/fs296/en/index.html. This fact sheet was produced as part of the WHO's International EMF project: http://www.who.int/peh-emf/publications/en/. Also, more information about EMF is available on FDA's cell phone and electromagnetic interference web pages: http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm.

Sincerely yours,

Robert J. Doyle, Chief
Electronic Products Branch
Division of Mammography Quality
and Radiation Programs
Office of Communication, Education,
and Radiation Programs
Center for Devices and
Radiological Health

Graph 1

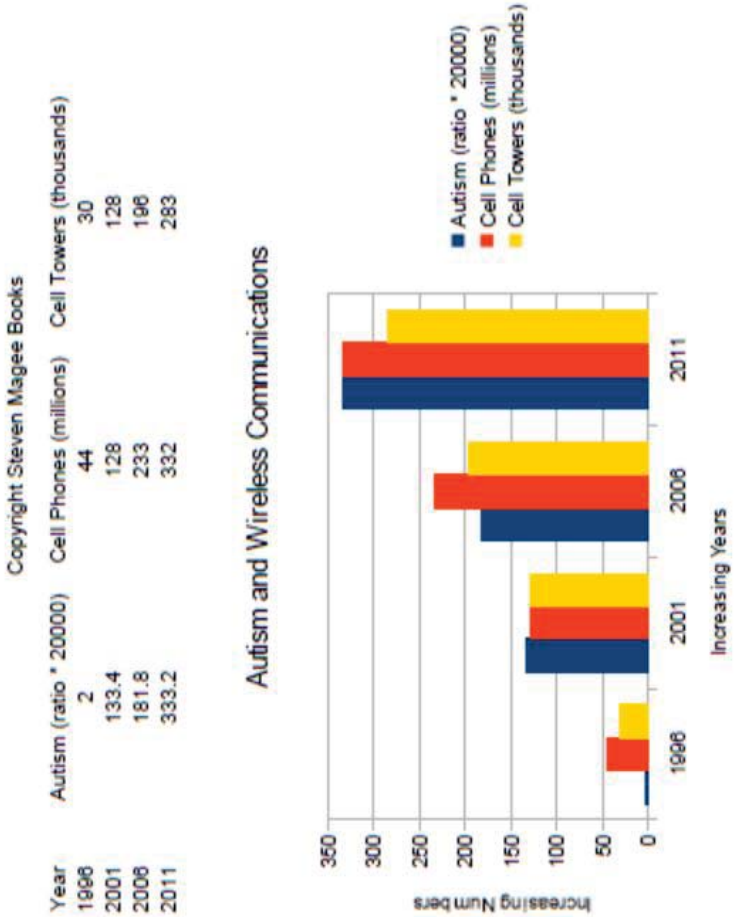
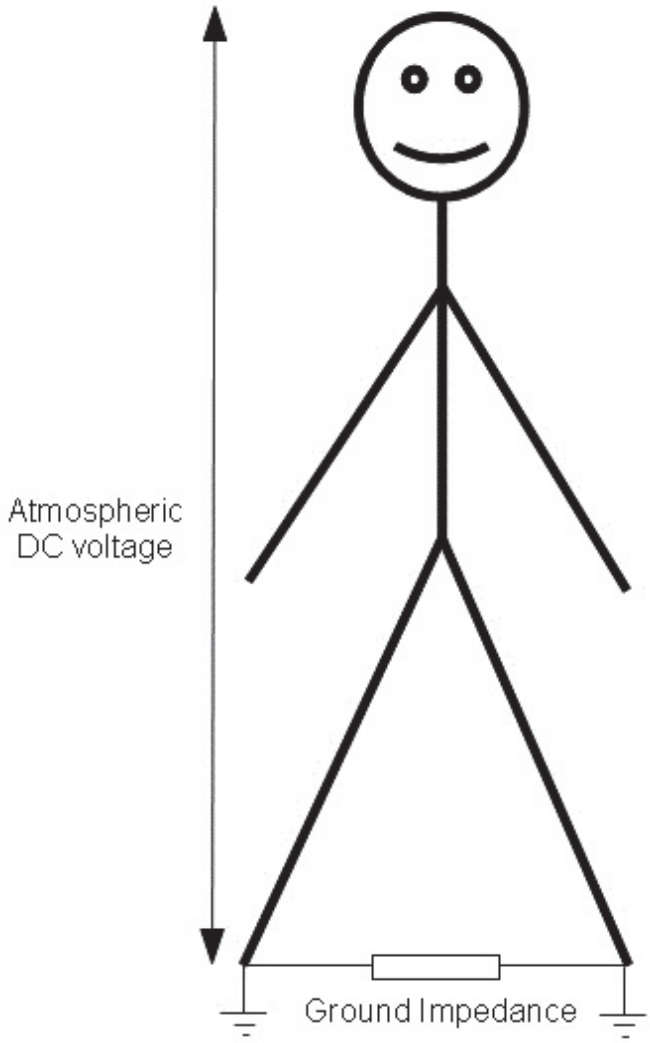

Copyright Steven Magee Books
Year
Autism (ratio * 20000)
Cell Phones (millions)
Cell Towers (thousands)
1996
2
44
30
2001
133.4
128
128
2006
181.8
233
196
2011
333.2
332
283
Autism and Wireless Communications
Autism (ratio * 20000)
Cell Phones (millions)
Cell Towers (thousands)
Increasing Numbers
350
300
250
200
150
100
50
0
1996
2001
2006
2011
Increasing Years

Diagram 3

Human Electrical Model