

Wireless Forum~ City of Fort Bragg

Our increasingly over electrified world-

We are increasingly experiencing the *invisible* effects of the burden of “**electrosmog**” which consists of the long term exposure to low levels of nonionizing electromagnetic radiation in the radio frequency and microwave range from familiar sources such as radio and TV broadcast signals, radar, the popular cell phone and other wireless “toys” and appliances such as the familiar laptop computer, and now WiFi Antennas and the proposed massive roll out of the P G & E Smart Meter Grid and Relay Antennas.

Within the past two years “Wifi” Router Antennas have become increasingly popular in residential homes and businesses adding to the burden of “stray” electromagnetic MW RF signals happening in our local neighborhoods. These antenna-like WiFi “mini” cell towers broadcast their RFR signals in a 100 to 300 foot radius; and with so many unlicensed individual WiFi routers now in use- we have multiple exposures occurring as these electrical broadcasting “fields” overlap within close neighborhoods. The result is an electrified “field” of nonionizing microwave energy that has not been measured for intensity; and has not been quantified for its health effects on all living organisms nor even its effect upon the neighborhood electrical transformers. (This “stray” electricity will collapse into the house electrical wiring of all buildings that are exposed to its unlicensed broadcast, and then run through the shared neighborhood electrical transformer.) PG & E’s Smart Meter’s massive deployment and infrastructure would add yet another layer to this MW RF electro pollution.

Some facts on this new “wireless” technology:

- **Scientists don’t know enough yet to conduct decisive experiments that can produce something of a professional consensus regarding the biological and health effects of wireless Radio Frequency Radiation.**
- If you have Smart Meters or WiFi or Cell phones transmitting nonionizing MW RF radiation signals *inside* your home; you have also created “dirty electricity” upon the electrical wiring in your home- and also upon the wiring of your neighbor’s home if they share your electrical transformer.
- Dirty electricity on your electrical wiring increases cancer risk significantly.
- Smart Meters create “dirty electricity” on your home or business electrical wiring.
- If you have a WiFi antenna on your computer desk- it is the same as being within 30 meters of a Cell tower.
- If you are within 300 feet of a Cell tower, you can expect negative health effects from the cell tower radiation. Cell Towers are known to cause cancer.
- In schools where multiple WiFi Routers are in use in different classrooms- the radiation emitted was found to be 3x greater than standing in the main beam of a Cell tower!
- Cell towers are not allowed to be located close to schools because of their negative health effects on young children (who absorb much more of the microwave radiation than adults due to their thinner less developed human skulls.)

It is the continuously broadcast MW RF frequencies that are the most damaging to health- yet these devices such as WiFi, Smart Meters, Cell towers seem to have fewer safety tests- if any- when compared to the ubiquitous cell phone. Cell phones are

generally turned off when not in use. WiFi “stray” signals that are trespassing into your environment cannot be turned off by you. Your Smart Meter cannot be turned off by you either. “Stray” Smart Meter signals that run through your home or business cannot be turned off by you either. The electrical “field” operating inside your home- thus is no longer under your control.

Smart Meters and WiFi that run continuously run their MW RF frequencies while you are asleep.

- You are 1000x more sensitive while asleep.
- Your cells communicate electrically while you are asleep. Your DNA is a part of this cell communication
- MW RF scrambles this cell communication and interferes with proper cell repair
- MW RF also can be the cause of insomnia
- MWRF while you sleep leads to abnormal fatigue and immune deficiency
- Interference with melatonin production while asleep
- Accelerates the aging process due to poor tissue repair
- Penetrates blood/brain barrier and allows toxins to enter the brain

More and more people are becoming “electrosensitive” from the excessive exposures to MW RF frequencies.

Symptoms of nonionizing MW RF overexposure include:

- Severe headaches
- Depression and/or Anxiety /Tension
- Unusual Fatigue
- Nausea
- Muscle and Joint pain
- Brain fog and short term memory loss
- Speech difficulty
- Heart palpitations
- Localized heat and tingling
- Blurred vision
- Poor circulation/ coagulating of blood cells (sticking together)
- Cancer
- DNA and Chromosomal damage

Continuously transmitting MW RF devices banned due to health effects:

- 2008 In all of France’s National Libraries
- 2004 In all International Association of Firefighters Union Firehouses (IAFF)-
No cell phone antennas allowed on their fire stations.

No real tests on the continuously running WiFi or Smart Meter “effects” on public health

- Short term, high intensity exposures to wireless RFR have received the most recent attention, in particular- the acute effects of cell phones.
- Far fewer studies have looked at the long term effects of cell phone use- let alone the use of wireless devices/appliances.

- Even less studied are the effects of low intensity, persistent exposures to MW RFR from cell phone and “WiFi” wireless antennas or Smart Meter Grid/Relay Antennas

Modulation of RF frequencies:

- Analog such as AM Radio and analog cell phone systems (are a “constant” frequency)
- Pulses such as FM radio and digital cell phones.
- (All digital wireless technologies are pulsed such as Smart Meters)
- Smart Meters put out strong “pulsed” MW RF signals (every 45 seconds as measured by a client of mine that lives in Berkeley)
- Rural Area Smart Meter Relay Antennas must be stronger in “pulsed” signal strength than in cities due to extra distance for the signal to travel
- People who are “electrosensitive” are sensitive to these “pulsed” signal spikes and not so much the background radiation of MW RF.

Frequency is measured in Hertz:

1 hertz (Hz) = 1 cycle per second

1 kilohertz (kHz) = 1,000 Hertz

1 megahertz (MHz) = 1 million Hertz

1 gigahertz (GHz) = 1 billion Hertz

Most wireless frequencies fall between .3 and 3 GHz. Older American cellular phones transmit in the microwave range between 800 and 900 MHz. Research has found biological effects at these frequencies. Many cell phones and Wifi Routers now use 2.45 GHz frequency. (Three cell phones can “pop” popcorn on a You-Tube video).

RF/MW energy is readily absorbed by the human anatomy- described by the term specific absorption rate (SAR). Standards based on tissue heating (thermal effects) set limits averaged over a certain length of time. Standards today range around 0.4 watts per kilogram over a continuous 6 minute period which is an expression of the energy absorbed by the body during that time. One criticism is that this standard allows the power density to exceed that limit if it is for less than 6 minutes. But no one really checks the time period- and it is the higher intensities for short durations, which simulate pulsed exposures, that are of the greatest concern. Anyone living near a cellular transmitter, for instance, would experience short, intense exposures all the time! Smart Meter Relay Antenna?

Health Risks increase with Signal Strength:

- Boosters can increase signal strength of unlicensed WiFi Antenna
- Additional wireless electronic home equipment can boost signal strength
- Multiple Smart Meters in use will boost signal strength
- Metal I beams or metal support beams in building construction amplifies current

Interference with Medical Implants and other electronic devices

- Wireless transmitting antenna can interfere with the proper functioning of medical implants:
Pacemakers (must be a minimum of 8 inches away from wireless devices per FCC)

Hearing Aids

Brain Implants: Can interfere with function causing death

- Can also bother people with metal titanium knee joint replacement
- Can be life threatening to people with severe electro hypersensitivity
- **A Violation of the Americans With Disabilities Act**

“It is the policy of the City of Fort Bragg to offer its public programs, services, and meetings in a manner that is readily accessible to everyone, including those with disabilities.”

“This notice is in compliance with the Americans With Disabilities Act (28 CFR, 35.102-35.104 ADA Title II”

PG&E “Smart Meters” and “Smart” Relay Antennas supportive infrastructure does not protect the rights of the more fragile or disabled citizens living or working within the rural/city community of Fort Bragg.

Pregnant women

Children

Seniors

People with Electro-hypersensitivity

People with medical implants such as Pacemakers and Hearing Aids

People with metal implants such as Titanium Knee Joint replacements

People with impaired immunity or circulatory disorders

Please join the Mendocino County Board of Supervisors and vote unanimously for a moratorium on “Smart Meters,” and its infrastructure, and protect our community from this serious health hazard and unconstitutional invasion of the privacy of our homes and businesses by PG & E Corporation. The scientific investigation has only just begun as to what will eventually happen to people due to all of this unnecessary wireless “electrocution.” Please go with the precautionary principle of: “First Do No Harm.”

Thank you for considering this presentation.



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