



August 29, 2012

Office of David Simpson  
Texas State Representative  
House District 7  
Capitol office: E1.416

## **Re: Public Utilities Commission & Smart Meters in Texas**

Dear David:

I was on the expert panel for the Texas Public Utilities Commission on August 21, 2012. Michael Bullock & tech support allowed me to provide evidence as well as listen to the entire meeting via Skype.

I informed Michael I wanted to provide information for your office to allow you to understand wireless smart devices are not in the best interest of Texas and the frequencies are very dangerous as applied. That doesn't mean smart technologies can't be deployed, they need to be wired without exception. There are very real reasons electrical professionals don't blast frequencies around.

A wired circuit and a wireless circuit are doing the same thing. One is in an insulated wire to protect the electrical system as well as the public, the other isn't insulated with everything living, buildings, infrastructure, etc in the wireless circuit.

There are several factors for discussion on this complex technical issue. I will break them down and keep as brief as possible while providing links.

When it comes to human exposures to frequencies, the FCC, Canada and all international bodies use the same science standards. Even though standards are based on decades of scientific literature, it is admitted mechanisms were missing linking the frequencies to adverse health effects. Those mechanisms were found and reported by electrical professionals in 2010.

The FCC adopted the Specific Absorption Rate knowing humans are absorbing energy so they assigned an acceptable heat load(watts/Kg) Smart Meters were considered low power density and not held against the head like a cellphone so a little distance from the meter was considered safe.(**FCC Safety Sheet attached**) The fact sheet shows accepted power density levels. Power density is watts/area and created by the **frequencies. Power in a wired circuit is confined to the wire.** Exposure is a **frequency** equation, NOT just power density.

<http://www.thermoguy.com/pdfs/Smart-Meter-Radiation.pdf>

The mechanisms linking the frequencies to adverse health effects showed how routers, collectors and the rest of the wireless access network covering large geographical areas to communicate with Smart Devices were left out of the equation on safety. Distance from the meter doesn't make you safe, the wireless access network communicating with the meters has put humans in the wireless circuit.

Oncor's response to public questions on Page 9(see attached highlighted area) states the average area covered by routers is 5 sq. miles and collectors cover an average of 125 sq. miles. That means the high speed frequencies cover those areas and everything is in the wireless circuit under electrical load.(power density)

The other important mechanisms left out of the FCC Safety Sheet is humans and all biology have their own frequencies. The safety sheet refers to humans as dead tissue heating, not intricate and unprotected biological systems.

The unintentional stimulation of tissue is to be avoided because experimental studies have shown it can lead to neurological and muscle stimulation. Intentional stimulation of tissue is medical imaging where patients are put in intended positions of use and the rest of the body is protected with lead clothing eliminating the frequencies. **The routers and collectors covering areas show how humans are hit by the frequencies from head to toe.** That validates the wide range of symptoms reported as well as the studies on biological effects.

American Academy of Environmental Medicine on Smart Meters.

[http://www.thermoguy.com/pdfs/American\\_Academy\\_of\\_Environmental\\_Medicine\\_Press\\_Advisory\\_on\\_EMFs.pdf](http://www.thermoguy.com/pdfs/American_Academy_of_Environmental_Medicine_Press_Advisory_on_EMFs.pdf)

Dangers of wireless lectured in medical education for education credits required for licensing. Recognized in North America. Wireless environments now have to be considered in diagnosis or medicine is reacting to symptoms.

[http://www.thermoguy.com/pdfs/Medical\\_Education\\_Letter\\_on\\_Wireless\\_Lectured\\_in\\_Medical\\_Academia.pdf](http://www.thermoguy.com/pdfs/Medical_Education_Letter_on_Wireless_Lectured_in_Medical_Academia.pdf)

Residents own their meter bases, unqualified installers without required permits or understanding of the scope of work their homes and lives at risk.

[http://www.thermoguy.com/pdfs/Smart\\_Meter\\_Fires\\_and\\_Installation.pdf](http://www.thermoguy.com/pdfs/Smart_Meter_Fires_and_Installation.pdf)

Pacemaker manufacturer specs tell recipient to stay out of EMF, routers, collectors and smart grid taking EMFs to their home. Health Monitoring Equipment and vulnerable patients will be impacted by EMFs. Utility admits interference. <http://www.dslreports.com/shownews/Power-Utility-Smart-Meters-Causing-Router-Interference-117120>

Routers, collectors, meters and the wireless access network vibrating buildings, structural components, electrical systems, fire separations affecting building code compliance. High speed vibrations billions of times per second affect DNA.

[http://www.thermoguy.com/pdfs/Open\\_Letter\\_to\\_Provinces\\_Territories\\_and\\_Municipalities\\_on\\_Smart\\_Meter\\_Legality.pdf](http://www.thermoguy.com/pdfs/Open_Letter_to_Provinces_Territories_and_Municipalities_on_Smart_Meter_Legality.pdf)

Routers, collectors and wireless access network causing accelerated corrosion of infrastructure. <http://media.withtank.com/42391c31ef.pdf>

Expanding on the above, we wire refineries, gas plants, gas stations, etc for the volatile areas they are. We use explosion proof electrical and install accordingly as per electrical code. Collectors and wireless networks covering 100s of square miles will induce charges on equipment or people where a spark will cause explosions. The frequencies as applied negate electrical codes.

Managing energy efficiency is important. Smart Meters are not addressing massive energy waste with air conditioning use. Air conditioning is refrigeration using a big electrical load reacting to the exterior of the buildings being radiated by solar EMFs. <http://www.thermoguy.com/blog/index.php?itemid=88>  
Texas buildings are generating heat close to boiling temperature and contributing to weather severity, droughts, fire severity. Paint, coatings or shade would knock the electrical waste off the grid immediately which reduces emissions.

Expanding on the above, collectors and routers covering hundreds of sq. miles with a power density will heat the atmosphere.

While wireless use seems like a savings, wiring upgrades for smart devices and Wi-Fi in schools is part of the missed economy. The doctor, engineers and citizens speaking at the PUC Meeting have valid concerns. Frequencies as applied are biological weapons against all life. No pollinators means no food and here is the result of radiated eggs. <http://www.thermoguy.com/blog/index.php?itemid=94>

The frequencies are illegal as applied and literally every minute is a compromise to your objectives.

Sincerely,

Curtis Bennett  
Chief Science Officer  
Interprovincial Journeyman Electrician (Red Seal)  
Engineering Technologist  
Adjunct Faculty, IHF & GEDI  
33 Years of Advanced Infrared Applications  
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