

ATTACHED IS INFORMATION CONCERNING HEALTH HAZARDS OF SMART METERS

ORIGINAL



0000145432

Please post the following

To the Arizona Corporation Commission

OPEN MEETING AGENDA

Re: Docket E-00000C-11-0328

JUN 10 2013

DOCKETED BY [Signature]

I wish to receive ... smart about these dockets on an ongoing basis. However, I do not have high speed internet

I am a senior citizen on early Social Security. I struggle to pay bills. I do not think APS should have the right to charge people \$30 per house to opt out of smart meters. Analog meters work, why "fix" something that is not broken? why should the public be forced to subsidize smart meters by being charged \$75 to install them, especially since the technology has not been around long enough to know the health and other side effects upon people and the wiring in their homes.

Smart meters are only necessary for APS' purposes for those people who have an APS program involving peak time hours.

THE ARGUMENT THAT SMART METERS SAVE MONEY IS NOT TRUE. THE ATTORNEY GENERAL OF THE STATE OF CONNECTICUT HAS ASKED THAT THE DEPARTMENT OF PUBLIC UTILITY CONTROL TERMINATE THE CONNECTICUT SMART METER PROGRAM ON THE GROUNDS THAT TRANSMITTING SMART METERS ARE NOT HELPING TO SAVE MONEY OR ENERGY. Please refer to <http://www.ct.gov/ag/lib/ag/pressreleases/2011/020811clpmeters.pdf>.

Also please refer to the website: www.electricalpollution.com/smartmeters.html

Now or a year or two from now is not the time to even think about smart meters, since there has not been enough independent studies concerning the affect of smart meters upon the wiring of older homes as well as the health effects of having so many smart meters in a neighborhood.

Please note that smart meters use the same technology as cell phones. I went to the mechanic in Clarkdale a few weeks ago and he told me that since the cell towers were put in Jerome, that now over 300 of his clients have cancer of some kind. This was not the case before the cell towers were installed.

I am very distressed to learn that people no longer have the right to decide what gets attached to their home.

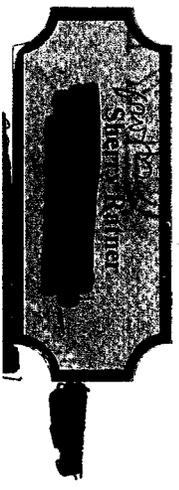
I am further distressed that the political campaigns of the members of the Arizona Corporation Commission were all financed by Pinnacle West which is the parent company of APS. The commissioners of the Arizona Corporation Commission need to do what is right for the people, to protect them from harm, not to pander to the whims of Pinnacle West.

Please post this on the docket.

I am not a trouble maker. I am a concerned senior citizen who demands justice.

* P.S. According to a swiss study, wireless wireless transmission takes 3 times as much energy as analog. It is far more energy efficient to transmit data over fiber-optic cable or even copper wires than to transmit wirelessly

THE ENERGY ACT OF 2005 STATES THAT THE SMART METER PROGRAM IS NOT A MANDATE IF APS IS ALLOWED TO CHARGE FEES EVERY MONTH FOR OPTING OUT OF SMART METER, THIS WILL MAKE SMART METERS A MANDATE FOR the elderly on fixed income and for the poor



RECEIVED JUN 10 11:08 AM 2013 ARIZONA CORPORATION COMMISSION DOCKET CONTROL Sherry Ratten

potential consequences for society from exposing children to microwave radiation from cell phones and cellular communication devices must be immediately acknowledged and responsibly addressed. Smart meters fall into this category of microwave radiation..

"The Energy Act of 2005 states that the Smart Meter Program ~~is not a mandate.~~ APS is not addressing this. By charging "extortion" fees of \$30 per house per month, APS is forcing people who live on limited incomes to not opt out of smart meters.

"There should be an immediate moratorium on smart meter installation until these serious public health issues are resolved. Continuing with the installation of smart meters would be extremely irresponsible, says the American Academy of Environmental Medicine (1/2012)."

"There have been countless papers in scientific journals over several decades that show very clearly that there are non-thermal biological effects (some of them extremely harmful) of electromagnetic fields that are well below the official safety guidelines.."



"The constant pulsing of smart meters every few seconds poses a risk to human health and affects the wiring of a house, heightening the exposure to EMF and microwave radiation. PEOPLE ARE EXPOSED NOT JUST TO THEIR OWN SMART METER BUT ALSO TO TRANSMISSIONS FROM ALL THE METERS WITHIN TRANSMITTING RANGE. The smart meters often have a range of over two miles. Thus the exposure is continuous and the 'safety' standards that meters comply with are irrelevant to the situation".

"Some transmitting meters transmit at less frequent intervals, however, they still seem to be causing health problems. This could be due to the still elevated levels of radiowaves and many, many meters are transmitting at these intervals. It has been documented that a person with a meter transmitting hourly reports waking up at the time it transmits."

"The transmitting smart meters can also put high frequencies directly on home and building wiring. This can happen deliberately through signaling to electrical loads or inadvertently through poor engineering. Poorly engineered meters can cause electrical pollution by putting the transmitted signal directly on home wiring or by the way they draw power to operate.

Signals in the range of 30 to 60 kHz have been measured and result from poor engineering in the way the meters obtain power from the electrical grid in order to operate. Studies are finding high frequencies on building wiring is related to a host of health problems. Milham and Morgan found a dose-response relationship between high frequencies present on building wiring and cancer. Removing high frequencies on building wiring has improved MS symptoms, blood sugar levels, asthma, sleep quality, learning, headaches, ADD and numerous other health problems" VISIT RESEARCH PAGE ON THE WEBSITE <http://www.electricalpollution.com/smartmeters.html> Technical papers provide a solid electrical and biomolecular basis for these effects. A recent paper by Ozen showed that transients induce much stronger current density levels in the human body than does the powerline 60Hz signal. The induced currents disturb

normal intercellular communications . This causes harmful short-term and long-term effects. THE ADDITIONAL ELECTRICAL POLLUTION FROM TRANSMITTING SMART METERS IS ALSO GREATLY EXACERBATING THE GROUND CURRENT PROBLEM.” Please refer to introduction page for more details. *transmitting*

The objectives of the Smart Grid Program can be accomplished without transmitting smart meters and without using other technology such as high frequency communication over power lines which are also harmful to human health. It simply requires that meters be selected that are properly engineered to meet the needs of the program without using dangerous technology. Multi-rate billing and other sophisticated metering options do not require that the meter transmit. MODELS ARE AVAILABLE THAT DOWNLOAD PERIODICALLY ON PHONE LINES. It is essential that only meters that do not transmit be put high frequency signals on building wiring are approved for the Smart Grid Programs.

concerning smart-meters
“THE UNSAFENESS OF THE ‘SAFETY’ STANDARDS FOR THE CONTINUOUSLY TRANSMITTING SMART METERS IS APPARENT FROM THE REPORTS OF HEALTH PROBLEMS RANGING FROM HEADACHES TO POOR SLEEP TO HEART PALPITATIONS THAT BEGIN AFTER THEIR INSTALLATION.”

“Some transmitting meters transmit at less frequent intervals and still seem to be causing health problems. This could be due to the still elevated levels of radio waves and microwaves in the neighborhood because of all the neighbors transmitters.”

* Here are references concerning immediate and serious effects transmitted radio frequency radiation can have on the human heart: provocation study using heart rate variability shows radiation from 2.4GHz cordless phone affects autonomic nervous system (Eur. J. Oncol.Library, vol. 5 [HTTP.MAGDAHAVAS.COM/2011/03/06/PICK_OF_THE_WEEK-24-MICROWAVE-RADIATION-AFFECTS-THE-HEART/](http://MAGDAHAVAS.COM/2011/03/06/PICK_OF_THE_WEEK-24-MICROWAVE-RADIATION-AFFECTS-THE-HEART/) “

* “Study by R. Santinir, P. Santini, P. Le Ruz, J.M. Danze and M. Seignel : Survey study of People Living in the vicinity of cellular phone base stations, Electromagnetic Biology and Medicine, Volume 22, No. 1, pp. 41-49, 2003.”

Please, Arizona Corporation Commissioners, think long and hard upon these facts that have here been presented and about the safety and well-Being of the citizens of Arizona, before you consider installing smart meters . The future of the human race depends upon your decision.. Do you want more Arizona children to be developmentally slow because of microwave radiation.? Do you want even more people on Medicaid because they could not afford to opt out of smart meters and became ill because of them .

Granted, APS has lost money due to people going to solar energy, and they are looking at ways to raise more money. However, smart meters need to be tested much more thoroughly before they can seriously be considered as a replacement for analog meters.

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Thorough testing of smart meters will take years and now is not the time to install them before they have been thoroughly tested. New smart meters of the future need to be developed that can turn off and not be continuously running and exposing people and the wiring of their homes to continuous nonstop microwave radiation and the terrible side effects caused by this new technology.

Please post the above material on the dockets on the Arizona Corporation Commission.

And please remember, commissioners of the Arizona Corporation Commission, that you have a responsibility to serve the people of Arizona and to protect them from harm. Just because Pinnacle West financed your political campaigns does not mean that you need to say okay to APS' demands for extortion fees to install and opt out of smart meters. Passing these dockets would be a great great injustice to the people of Arizona until many years are spent testing the safety of smart meters upon human health and upon house wiring and until a smart meter is developed that can turn itself off and not be on all the time.

from Sherry Ratner

People on fixed incomes like social security should not be forced to take \$30 out of their food money to pay APS to opt out of a smart meter each month. People opting out of smart meters are doing so to protect their health. They should not be forced to pay "extortion" fees for opting out.

They should not have to go hungry or not pay other bills just so APS can have their "extortion" fees for opting out of smart meters, a technology that has not been tested on a long-term basis of over 90 days by APS for health hazards upon humans living in a house with a smart meter attached to the house. independent testing of smart meters

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needs to be performed to determine if they are safe on a long-term basis

Transmitting Smart Meters Pose A Serious Threat To Public Health

Transmitting smart meters are being installed nationwide on gas, water, and electrical services, driven in part by funding for the Smart Grid Program approved as part of the American Recovery and Reinvestment Act of 2009.

This is of great concern because the exposure to microwave and radiowave radiation from these meters is involuntary and continuous. The transmitting meters may not even comply with Federal Communications Commission (FCC) "safety" standards (see <http://sagereports.com/smart-meter-rt/>). However, those standards were initially designed to protect an average male from tissue heating (cooking) during a brief exposure. These standards were not designed to protect a diverse population from the non-thermal effects of continuous exposure to microwave and radiowave radiation. Therefore, these "safety" standards were not designed to protect the public from health problems under the circumstances which the meters are being used. The American Academy of Environmental Medicine has called for a moratorium on the installation of transmitting utility meters on the basis that:

"Chronic exposure to wireless radiofrequency radiation is a preventable environmental hazard that is sufficiently well documented to warrant immediate preventative public health action."

and

"The current medical literature raises credible questions about genetic and cellular effects, hormonal effects, male fertility, blood/brain barrier damage and increased risk of certain types of cancers from RF or ELF levels similar to those emitted from "smart meters". Children are placed at particular risk for altered brain development, and impaired learning and behavior. Further, EMF/RF adds synergistic effects to the damage observed from a range of toxic chemicals. Given the widespread, chronic, and essentially inescapable ELF/RF exposure of everyone living near a "smart meter", the Board of the American Academy of Environmental Medicine finds it unacceptable from a public health standpoint to implement this technology until these serious medical concerns are resolved. We consider a moratorium on installation of wireless "smart meters" to be an issue of the highest importance."

The transmitting meters most often being used transmit continuously, every few seconds. This is picked up by a receiver and logged by the utility. You are exposed to the transmissions from all the meters within transmitting range. The meters often have a range of over 2 miles. Thus, the exposure is continuous and the "safety" standards the meters comply

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with are irrelevant to the situation. Please read [this letter](#) from the Radiation Protection Division of the Environmental Protection Agency (EPA) regarding the limitations of the FCC standards.

Some transmitting meters transmit at less frequent intervals, however, they still seem to be causing health problems. This could be due to the still elevated levels of radiowaves and microwaves in the neighborhood because of all the neighbors transmitters. Remember, many, many meters are transmitting at these intervals. (One person with a meter transmitting hourly reports waking at the time it transmits.)

The transmitting meters can also put high frequencies directly on home and building wiring. This can happen deliberately through signaling to electrical loads or inadvertently through poor engineering. Poorly engineered meters can cause electrical pollution by putting the transmitted signal directly on home wiring or by the way they draw power to operate. Signals in the range of 30 to 60 kHz have been measured and result from poor engineering in the way the meters obtain power from the electrical grid in order to operate. Taking the steps on the [Solutions page](#) can help alleviate symptoms being caused by the meters. Meters could be properly engineered so that they would not be highly electrically polluting. Whether deliberate or inadvertent, studies are finding high frequencies on building wiring is related to a host of health problems. [Milham and Morgan](#) found a dose-response relationship between high frequencies present on building wiring and cancer. Removing high frequencies on building wiring has improved MS symptoms, blood sugar levels, asthma, sleep quality, teacher health, headaches, ADD, and numerous other health problems. (Visit [Research page](#) to see papers.) Technical papers provide a solid electrical and biomolecular basis for these effects. A recent paper by [Ozen](#), showed that transients induce much stronger current density levels in the human body than does the powerline 60Hz signal. A technical paper by [Vignati and Giuliani](#) discusses the authors' findings that high frequency communication signals on power lines also induce much stronger electrical currents in the human body than a low frequency signal of the same strength. The induced currents disturb normal intercellular communications. This causes harmful short-term and long-term effects. Please see the [Technical page](#) for information about properly measuring the high frequencies on building wiring that are causing health problems. There is also a [simple meter](#) that lay people can use to easily measure most high frequencies on building wiring.

The additional electrical pollution from the transmitting meters is also greatly exacerbating the ground current problem. Please see the [Introduction page](#) for more details about ground currents.

The objectives of the Smart Grid Program can be accomplished without transmitting meters and without using other technology such as high frequency communication over power lines, which are also harmful to human health. It simply requires that meters be selected that are properly engineered to meet the needs of the program without using dangerous technology. Multi-rate billing and other sophisticated metering options do not require that the meter transmit. Models are available that download periodically on phone lines,

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dedicated communication lines, or are read by a reader the meter reader carries. Dedicated communication cables can be used to shut off or allow on certain power consuming electronics such as air conditioners. It is essential that only meters that do not transmit or put high frequency signals on building wiring are approved for the Smart Grid Program. At this time, however, it is important to know that many new appliances are being outfitted with transmitters that transmit continuously and cannot be turned off. Be sure to ask detailed questions if you are purchasing new appliances.

The un-safeness of the "safety" standards for the continuously transmitting smart meters is apparent from the reports of health problems ranging from headaches to poor sleep to heart palpitations that begin after their installation.

Transmitted microwave and radiofrequency radiation also have the potential for causing serious long-term health consequences, even for those who do not notice overt symptoms. The majority of independent studies report similar results: impairment of cellular communication, DNA breakages, increased stress proteins, etc. Read about it in Disconnect Studies targeting cellphone and cordless phone usage are finding increased risk of brain tumors. Children seem to be particularly vulnerable. Exposure to radiofrequency radiation has also been linked to an increased risk for cancer, including lymphoma, leukemia, brain tumor (cellphones), melanoma, parotid gland tumors, and breast cancer RISKS OF CARCINOGENESIS FROM ELECTROMAGNETIC RADIATION OF MOBILE TELEPHONY DEVICES. A review of studies performed prior to 2007 is available at <http://www.bioinitiative.org>. A recent public health study provides particularly strong evidence that we should be concerned about continuous exposure to transmitted microwave radiation. It can be found in a paper published in *Pathophysiology* (Volume 16, Issue 1, June 2009, Pages 43-46) Apparent decreases in Swedish public health indicators after 1997-Are they due to improved diagnostics or to environmental factors?. The authors looked at trend lines in data collected by the Swedish government and found that the introduction of cellphone technology nationwide in 1997 coincided with the beginning of an accelerating deterioration of several health indicators. Specifically, the rates of prostate cancer, brain tumors, melanomas and lung cancers in the elderly all increased dramatically. So did deaths from Alzheimer's disease, traffic accident injuries, sick leave rates, and percentage of infants born with heart problems. This paper is short and well worth reading. We should resolve the public health questions before introducing further public exposure to microwave radiation, particularly involuntary continuous exposure.

Radiowave and microwave radiation are not just a problem for people, they are causing serious problems for animals of all types and plant life as well. Please visit <http://www.hese-project.org/hese-uk/en/issues/emr.php?id=bees> and <http://www.hese-project.org/hese-uk/en/issues/> for more information.