

ORIGINAL

Antonio Gill

Generic Smart Meter Investigation E-00000C-11-0328



From: Nancy Baer (redro Monday, May 14, : Burns-Web; Kenni 'Representative Tc

'representative Fann'; 'Representative Pierce'; 'pai County Commissioner District 3'; 'Yavapai

RECEIVED

2012 JUN -5 P 4:08

AZ CORP COMMISSION DOCKET CONTROL

County District 2 Commissioner' paboud@azleg.gov; sallen@azleg.gov; fantenori@azleg.gov; nbarto@azleg.gov; abiggs@azleg.gov; sbundgaard@azleg.gov; ocajerobedford@azleg.gov; rcrandall@azleg.gov; adriggs@azleg.gov; sgallardo@azleg.gov; rgould@azleg.gov; lgray@azleg.gov; ggriffin@azleg.gov; jjackson@azleg.gov; lklein@azleg.gov; llandrum@azleg.gov; llopez@azleg.gov; jmccomish@azleg.gov; amelvin@azleg.gov; rmeza@azleg.gov; rmurphy@azleg.gov; jnelson@azleg.gov; rpearce@azleg.gov; spierce@azleg.gov; mreagan@azleg.gov; dschapira@azleg.gov; dshooter@azleg.gov; ksinema@azleg.gov; stevesmith@azleg.gov; syarbrough@azleg.gov; eableser@azleg.gov; lalston@azleg.gov; barredondo@azleg.gov; cash@azleg.gov; bbarton@azleg.gov; kbrophymcgee@azleg.gov; jburgess@azleg.gov; chcampbell@azleg.gov; hcarter@azleg.gov; tchabin@azleg.gov; scourt@azleg.gov; ccrandell@azleg.gov; jdial@azleg.gov; kfann@azleg.gov; sfarley@azleg.gov; efarmsworth@azleg.gov; jfillmore@azleg.gov; tforese@azleg.gov; rgallego@azleg.gov; sgonzales@azleg.gov; dgoodale@azleg.gov; dgowan@azleg.gov; rgray@azleg.gov; ahale@azleg.gov; jharper@azleg.gov; mheinz@azleg.gov; khobbs@azleg.gov; rjones@azleg.gov; pjudd@azleg.gov; jkavanagh@azleg.gov; dlesko@azleg.gov; ddavis@azleg.gov; nmclain@azleg.gov; jamesnard@azleg.gov; emeyer@azleg.gov; cmiranda@azleg.gov; rmiranda@azleg.gov; smontenegro@azleg.gov; jolson@azleg.gov; lpancrazi@azleg.gov; dpatterson@azleg.gov; jpierce@azleg.gov; fpratt@azleg.gov; tproud@azleg.gov; areeve@azleg.gov; brobson@azleg.gov; msaldate@azleg.gov; cseel@azleg.gov; dsmith@azleg.gov; dstevens@azleg.gov; atobin@azleg.gov; atovar@azleg.gov; mugenti@azleg.gov; surie@azleg.gov; tvogt@azleg.gov; jweiers@azleg.gov; jpweiers@azleg.gov; bwheeler@azleg.gov; vwilliams@azleg.gov; kyee@azleg.gov; consumerinfo@azag.gov; cfraulob@azruco.gov; jjerich@azruco.gov; 'Councilor Barbara Litrell'; 'Councilor Dan McIlroy'; 'Councilor Dennis Rayner'; 'Councilor Mark DiNunzio'; 'Councilor Mike Ward'; 'Mayor Rob Adams'; 'Vice Mayor Cliff Hamilton' DOCKET NO. E-00000C-11-0328 AZ CORPORATION COMMISSION Pacemaker Interference by 60-Hz Contact Currents

Subject:

Dear Elected Officials:

Please review and submit the attached nine page research results which appeared in "IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, VOL. 49, NO. 8, AUGUST 2002" into the docket as referenced above. Yes, 10 years ago, the threat of electromagnetic frequency was already known to be lethal, yet elected officials have failed the public miserably in protecting our health from excessive electromagnetic and radio frequencies. If you are to represent me, I expect you to keep up with the science and all things affected by any decisions made by you.

Please meet your responsibility to protect the public health and place an immediate moratorium on any further installations of "smart" meters in Arizona.

Arizona Corporation Commission

DOCKETED

Thank you,

JUN 05 2012

Nancy Baer, APS Consumer

DOCKETED BY [Signature]

DAWSON et al.: PACEMAKER INTERFERENCE BY MAGNETIC FIELDS

"Abstract—Contact currents occur when a person touches conductive surfaces at different potentials, thereby completing a path for current flow through the body. Such currents provide an additional coupling mechanism between the human body and external low-frequency fields. The resulting fields induced in the body can cause interference with implanted cardiac pacemakers. Modern computing resources used in conjunction with millimeter-scale human body conductivity models make numerical modeling a viable technique for examining any such interference.

Human exposure to external low-frequency electric or magnetic fields leads to the induction of secondary fields within the body. These induced fields can cause electromagnetic interference (EMI) with susceptible implanted medical devices, such as cardiac pacemakers. Such EMI at power line frequencies (50 or 60 Hz) has been observed in environmental and laboratory settings [1], [2]. Numerical modeling of EMI that was recently performed indicated that pacemakers with unipolar electrodes could be susceptible to EMI by 60-

Hz electric fields of the order of 6 kV/m [3] and by 60-Hz magnetic fields of the order of 40 T (140 T) for atrial (ventricular) electrodes [4]. It was also confirmed that EMI for bipolar pacemaker electrodes was highly unlikely for typical electrode placements.

<http://www.cpdee.ufmg.br/~gbarbosa/Mestrado/01019452.pdf>

Antonio Gill

From: Cindy dB [auraconnection@hotmail.com]
Sent: Wednesday, May 16, 2012 12:59 PM
To: Pierce-Web; Newman-Web; Burns-Web; Stump-Web; Kennedy-Web; spierce@azleg.gov
Subject: FW: Smart Meter Complainant
Attachments: Analog Meter Measurement.wmv; Cell Phone Measurement.wmv; Smart Meter Measurement.wmv

e-Docket Number: E-00000-11-0328

Please attach docket number

Hello

I am filing a complainant

My name is Cindy deBac I live in North Scottsdale Arizona since the installation of the smart meters I can no longer live in my house . I was not Electro Magnetic sensitive but since the smart meters I have almost several times had a massive Heart attack , headaches insomnia, eye problems , muscle problems tremors .And several other side effects due to the smart meter grid . Doctors want this banned immediately in the state of Arizona it is now a epidemic of people coming in with all kinds of EMF problems and Heart Problems tachycardia , atrial fibrillation,
No one at Arizona Corporation Commissions Senitors Majors APS will help remove any of the other meters so I could go home so I am homeless thanks to the smart meters and 4 G Cell towers

Cindy deBac
480 255 3973

Antonio Gill

From: Elizabeth Kelley [lkelly_45@msn.com]
Sent: Monday, June 04, 2012 4:52 PM
To: Pierce-Web; Burns-Web; Newman-Web; Stump-Web; Kennedy-Web
Subject: Request that this message and attachments be filed under DOCKET NO. E-00000C-11-0328 AZ CORPORATION COMMISSION
Attachments: Vermont.S-214.pdf

Dear Arizona Corporation Commissioners,

Please file the message below and the attached document and link in the message under DOCKET NO. E-00000C-11-0328.

FYI- the May 2012 Bloomberg article on smart meters now published in Business Week, June 5, 2012 issue.

As of today, June 7, 2012, 57 California cities and counties have enacted ordinances or passed resolutions opposing smart meters. California citizens and local governments have legal challenges underway. In May, 2012, the Vermont State Legislature passed S. 214, signed by the Governor the following week that which places a one year moratorium on smart meter installations, offers a "no charge" opt out to utility customers who request that they not have a smart meter on their property; and, calls for a health study and a cost/benefits analysis on the smart grid program and smart meter safety in 2013. (Vermont bill number S. 214 is attached.

Meanwhile, smart meters continue to be newly installed on residences and small commercial businesses across the U.S. While some utilities have reluctantly issued opt out policies, and charging customers more in the process, other utilities in states like Arizona are holding off from determining whether an opt out policy is needed or not. The delay only gives the utilities more time to install smart meters which will be harder to remove once they are installed.

<http://www.businessweek.com/news/2012-05-08/smart-meter-defiance-slows-adoption-of-29-billion-grid>

We urge the Arizona Corporation Commission to hold public hearings to consider an opt out policy so that Arizonans can ensure the health and privacy protections they are entitled to from these smart meters.

We urge the Arizona State Legislature to consider enacting legislation similar to S. 214 adopted by the State of Vermont.

We first brought this matter to your attention over 16 months ago. You acted by holding two open meetings where citizens and the utility companies we testified about our concerns in last September 2011 and again in March 23, 2012. However, to date, nothing has happened with your plans to develop policies on opt out and privacy. We strongly urge that something be done immediately to respond to many concerns about smart metering, especially the health and privacy concerns. For our publically elected officials to do nothing in the face of a significant level of public concern being raised over poorly crafted public polices is neglectful and is placing our personal health and constitutional rights at risk.

Sincerely,

Elizabeth Kelley
Co-Coordinator, Electromagnetic Safety Alliance, Inc.
www.electromagneticsafety.org
Tucson, Arizona

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S.214

Introduced by Senator Hartwell

Referred to Committee on Finance

Date: January 3, 2012

Subject: Utilities; smart meters; customer rights

Statement of purpose: This bill proposes to require the public service board to establish terms and conditions governing the installation of wireless smart meters. The terms and conditions shall require an electric company to obtain a customer's written consent before installing a wireless smart meter on his or her property. The terms and conditions also shall require an electric company to remove, at no cost to the customer, an already installed wireless smart meter, if so requested by a customer.

An act relating to customer rights regarding smart meters

It is hereby enacted by the General Assembly of the State of Vermont:

~~Sec. 1. 30 V.S.A. § 2811 is added to read:~~

~~§ 2811. SMART METERS, CUSTOMER RIGHTS~~

~~(a) As used in this section, the following terms shall have the following meanings:~~

1 ~~(1) "Wired smart meter" means an advanced metering infrastructure~~
2 ~~analog device using a fixed wire for two-way communication between the~~
3 ~~device and an electric company.~~

4 ~~(2) "Wireless smart meter" means an advanced metering infrastructure~~
5 ~~device using radio or other wireless means for two-way communication~~
6 ~~between the device and an electric company.~~

7 ~~(b) An electric company may install a wireless smart meter only in a~~
8 ~~manner consistent with terms and conditions approved by the board. Upon~~
9 ~~petition by an electric company, the board shall open a proceeding to establish~~
10 ~~the terms and conditions under which the company may install wireless smart~~
11 ~~meters. The terms and conditions shall include provisions requiring an electric~~
12 ~~company to obtain a customer's written consent prior to the installation of a~~
13 ~~wireless smart meter on his or her property. The provisions also shall specify~~
14 ~~that a customer has the option of having a wired smart meter installed as an~~
15 ~~alternative to the wireless smart meter, at no additional cost.~~

16 Sec. 2. INSTALLED SMART METERS

17 ~~If an electric company has installed a wireless smart meter, as defined in~~
18 ~~30 V.S.A. § 2811(a)(2), prior to the effective date of this act, the public service~~
19 ~~board shall open a proceeding to establish terms and conditions governing any~~
20 ~~further installation of wireless smart meters by that company consistent with~~
21 ~~the requirements of 30 V.S.A. § 2811(b). The board also shall establish, in the~~

1 ~~same proceeding, procedures by which a customer who has an installed~~
2 ~~wireless smart meter may, at no cost to that customer, have the wireless smart~~
3 ~~meter removed and replaced with a meter that does not use wireless~~
4 ~~technology.~~

5 Sec. 3. EFFECTIVE DATE

6 ~~This act shall take effect on passage.~~

Sec. 1. 30 V.S.A. § 2811 is added to read:

§ 2811. SMART METERS; CUSTOMER RIGHTS; REPORTS

(a) Definitions. As used in this section, the following terms shall have the following meanings:

(1) "Smart meter" means a wired smart meter or a wireless smart meter.

(2) "Wired smart meter" means an advanced metering infrastructure device using a fixed wire for two-way communication between the device and an electric company.

(3) "Wireless smart meter" means an advanced metering infrastructure device using radio or other wireless means for two-way communication between the device and an electric company.

(b) Customer rights. Notwithstanding any law, order, or agreement to the contrary, an electric company may install a wireless smart meter on a customer's premises, provided the company:

(1) provides prior written notice to the customer indicating that the meter will use radio or other wireless means for two-way communication between the meter and the company and informing the customer of his or her rights under subdivisions (2) and (3) of this subsection;

(2) allows a customer to choose not to have a wireless smart meter installed, at no additional monthly or other charge, unless such charge is approved by the public service board pursuant to subsection (c) of this section; and

(3) allows a customer to require removal of a previously installed wireless smart meter for any reason and at an agreed-upon time, without incurring any charge for such removal.

(c) Fees. ~~Upon~~ Beginning April 15, 2013, upon full deployment of its advanced metering infrastructure, an electric company may charge an opt-out fee to customers who choose not to have a wireless smart meter installed, or who have a wireless smart meter removed, provided the fee is cost based and approved by the board.

(d) Reports. On or before March 1, 2013, the commissioner of public service shall publish a report itemizing the opt-out fees authorized for each electric company under subsection (c) of this section. On January 1, 2014 and again on January 1, 2016, the commissioner of public service shall publish a report on the energy savings realized through the use of smart meters, as well as on the occurrence of any breaches to a company's cyber security infrastructure. The reports shall be based on electric company data requested by and provided to the commissioner of public service and shall be in a form and in a manner the commissioner deems necessary to accomplish the purposes of this subsection. The reports shall be submitted to the senate committees on finance and on natural resources and energy and the house committees on commerce and economic development and on natural resources and energy.

(e) Health report. On or before January 15, 2013, the commissioner of health shall submit a report to the senate committee on finance and the house committee on commerce and economic development which shall include: an update of the department of health's 2012 report entitled "Radio Frequency Radiation and Health: Smart Meters"; a summary of the department's activities monitoring the deployment of wireless smart meters in Vermont, including a representative sample of postdeployment radio frequency level testing; and recommendations relating to evidence-based surveillance on the potential health effects of wireless smart meters.

Sec. 2. INSTALLED WIRELESS SMART METERS

If an electric company has installed a wireless smart meter, as defined in 30 V.S.A. § 2811(a)(3), prior to the effective date of this act, the company shall provide notice of the installation to the applicable customers, and such notice shall include a statement of customer rights as described under 30 V.S.A. § 2811(b).

Sec. 3. EFFECTIVE DATE

This act shall take effect on passage.

Antonio Gill

From: Lenore Kremen [lkremen@naturalpartners.com]
Sent: Friday, May 25, 2012 2:09 PM
To: Pierce-Web
Subject: Smart meters

I am not in favor of the use of these smart meters. My husband was having headaches and once we had the meter removed his headaches went away. Why are you choosing this kind of technology when it has been proven to be harmful. I am deeply offended for the lack of care and concern for future generations
Sincerely, Lenore Kremen

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Lenore Kremen

Executive Assistant

Natural Partners, Inc. | 8445 East Hartford Drive | Scottsdale, Arizona 85255

Tel: 888.633.7620 x700, *Local Tel:* 480.368.9355 x700 | Fax: 800.862.1261, *Local Fax:* 480.368.0898

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