

Susan Kreider v. PECO Energy Company  
Customer Account #47458-02006  
PUC Docket No.: C-2015-2469655

RECEIVED

APR 29 2016

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

**BRIEF following INITIAL HEARING March 7, 2016**  
**Commonwealth of Pennsylvania Public Utility Commission**  
**Administrative Law Judges Darlene D Heep & Christopher Pell**

**Table of Contents**

**Forward.....Page 2**

**The Arizona State Health Department’s Electric Meter Report is deeply flawed contrary to Dr. Israel’s Testimony .....Page 2**

**“Nothing un-calibrates an analog meter” .....Page 2**

**FlexNet Model deployed on my house May 23, 2013 is not UL Certified.....Page 3**

**Smart meters have been associated with increased incidence of fires - for which there is no code.....Page 3**

**PECO collected 55 days of smart meter data since installation of my Frigidaire Energy Star refrigerator, so what happened to my energy \$avings?.....Page 5**

**The Customer is responsible for costs associated with the Service Line.....Page 6**

**Maximum emissions a person may receive are almost impossible for Government to regulate.....Page 6**

**Microwaves are the preferred medium for communication, over radiowaves, due to their superior penetrative properties, and ability to carry more information.....Page 6**

**Corporate experts may present biased literature review.....Page 9**

**Daily transmissions to PECO vs. pulse frequency.....Page 10**

**Conclusion.....Page 12**

Susan Kreider v. PECO Energy Company  
Customer Account #47458-02006  
PUC Docket No.: C-2015-2469655

**BRIEF following INITIAL HEARING March 7, 2016**  
**Commonwealth of Pennsylvania Public Utility Commission**  
**Administrative Law Judges Darlene D Heep & Christopher P Pell**

**Forward**

It was not my intention to create a lengthy BRIEF, but charges of "Theft & Tampering" and accusations that my mechanical analog meter is "Rogue," implying that it is unsafe, necessitated a more in-depth comparison of the two electricity metering technologies.

**The Arizona State Health Department's Electric Meter Report is deeply flawed contrary to Dr. Israel's testimony**

Established scientific evidence published in peer-reviewed journals demonstrate that RF can cause biological changes and health effects at low intensity levels way below the current standards set by the FCC Guidelines which are 30 years obsolete.

Martin Blanc, PhD Research Scientist at Columbia University >50 years for the Department of Physiology and Cellular Biophysics testified at the Public Hearing before the Arizona Corporation Commission (ACC) Chaired by Bob Stump. He focused on "EMF Problems... We see things that happen in cells." EMF causes big changes in the body not all of which are immediately apparent. Cellular Stress Response —information that has been missing from the archaic standards that measure heat effect on tissues. (Blanc, 2014).

Sedona, AZ activist Warren Woodward uploaded a 34-page expose lambasting the Health Study, entitled "A Pattern of Incompetence and Fraud." I will be peppering throughout this document with numerous of his insights, including his "Full Disclosure: No one is paying me anything to research this issue and ferret out the truth. I received no 'dark money.' In fact, my work has cost me much of my own money in time and expenses." (Woodward, 2014).

**"Nothing un-calibrates an analog meter"**

Says constitutionalist Jerry Day, a television/film producer and personal rights and freedom crusader from whose website I purchased my analog meter; <http://freedomtaker.com> (Jerry Day, personal communication, March 14, 2016).

Attached are the Meter Test Results of my Sangamo J5S analog meter refurbished and calibrated by Hialeah Meter Company July 2, 2014. Hialeah Meter Company is family owned and operated since 1954. For 62 years Hialeah Meter has set the industry standard for quality in new and remanufactured meters. Every meter that leaves their 13,000 sq. ft. facility meets the strict calibration and accuracy standards set

**Susan Kreider v. PECO Energy Company**

**Customer Account #47458-02006**

**PUC Docket No.: C-2015-2469655**

by the American National Standards Institute (ANSI) and the National Institute of Standards and Technology (NIST).

**FlexNet Model deployed on my house May 23, 2013 is not UL Certified**

Brenda Eisen, Customer Service Manager for PECO called February 11, 2014 and left a voicemail "About your meter." She reached me February 13<sup>th</sup> as I was leaving for work. I told her that I was aware my smart meter was not UL Certified and she argued that it is, offering to provide a validation number. I didn't call her bluff, as I was not allowing PECO personnel to make me late for work again.

March 2016 I searched the UL Certification Directory website. Not finding my FlexNet smart meter, I emailed my first picture of it and received this reply from James E. Herman, Customer Service Account Specialist:

*"I do not have a record for a company called FlexNet for any utility meter. In the United States, the [N]ational Electrical Code governs electrical installations, but utility meters fall outside the scope of the NEC since they are owned and controlled by the serving utility. In your case the utility company chose a meter that was not UL Certified. There are a handful of companies that have submitted meters for UL Certification, but FlexNet is not one of these."*

Attached are pictures of smart meter #12006767348. There is no UL Certification sticker on the meter.

**Smart meters have been associated with increased incidence of fires - for which there is no fire code**

High voltage surges: lightning strikes, downed utility poles, trees falling on power lines, etc. can blow meters off or into homes. (Thiesen, 2016) An example of such an event happened 14 months ago in Stockton, CA:

When the customers in more than 5,000 homes get their power back on will depend on how badly damaged their meters are. Neighbors in the South Stockton area described it as a large pop, a bomb going off, and strong enough to shake a house... PG&E says a dump truck crashed near its Alpine substation on Arch Road. When the truck hit the utility pole, the top wire fell onto the bottom wire, creating a power surge. "The top lines are considered our freeways. The bottom lines are our distribution lines taking power directly to homes," said PG&E spokeswoman Brandi Ehlers. "So when the two collide, they're at different voltages and the higher voltage wins out, causing an overload." (Martinez, L. 2015).

Analog meters have surge arrestors which take surges in to ground; smart meters do not.

Smart meters have voltage transient susceptibility; analog meters rarely break down.

**Susan Kreider v. PECO Energy Company**

**Customer Account #47458-02006**

**PUC Docket No.: C-2015-2469655**

The switch mode power supply, which analog meters do not have, causes harmonics in all the wiring, like a dimmer switch. Older wiring is not suitable for these spikes; people have reported damage to their appliances.

There are at least four separate sources of arcing:

1. Thinner blades create a larger gap. (Thiesen, 2016). The gap is due to the wider connections in the old socket liners which accommodated analog meters. "If PECO were really concerned about fires they would replace the meter socket with a matching meter socket to ensure a tighter fit with the thinner blades to avoid a gap which causes arcing." (Name withheld, licensed electrician, personal communication, April 22, 2016).

2. Hurried installation under load. (Thiesen, 2016). Smart meter #12006767348 was deployed under load, while I was at work. "Each time the technicians install ANY meter under load, arcing occurs which causes pitting to the meter socket female terminal." (Name withheld, licensed electrician, personal communication, April 22, 2016.) Logically, one would think this is the reason the untrained technicians write: "To check the socket," (for pitting), as the reason given on their SHUT-OFF NOTICES.

3. *Untrained technicians who save money over [licensed] electricians and are paid by the piece but may damage the base, causing electrical resistance in the smart meter's connection to the box so that it becomes overheated, also known as a "hot socket."* (Thiesen, 2016). Following installation of my Sangamo meter both field technicians who arrived at my house, including the second who had an appointment, intended to remove my Sangamo and *re-deploy a smart Meter under load.*

4. The remote disconnect function signals the smart meter to shut off also saves money for the Utility but is another potential source of arcing. Hackers can potentially activate the remote disconnect.

Analog meters have a metal alloy bakelite backplate, glass and metal; smart meter backplates are comprised of cheap plastic. PECO's expert grid engineering Mr. Pritchard denied knowledge of this.

There are at least 26 separate known incidences of smart meter fires in Pennsylvania; Sensus says 'It's the installers' fault.' (Thiesen, 2016).

Sensus maintains that the incendiary PECO meters and others that caught fire in Texas, Georgia, California, and Canada were all tied to faulty installations - loose connections in the sockets into which the meter is plugged, which leads to electrical resistance, overheating and a meter meltdown. PECO says it is negotiating with Sensus over which company will absorb the expense of swapping out 186,000 meters. If PECO pays, the utility could seek to recover the extra cost from customers, said Engel Menendez. (Maykuth, 2012).

**Susan Kreider v. PECO Energy Company**

**Customer Account #47458-02006**

**PUC Docket No.: C-2015-2469655**

How is that fair?

Rigorous testing for all of 3 minutes is only for accuracy and to ascertain that it's sending back a signal. (Thiesen, 2016).

On October 9, 2012 PECO announced it would resume its ambitious smart meter installation program after pulling the plug with a company whose devices have been linked to a series of fires... PECO hired Underwriters Laboratories (UL) and two independent consultants to examine the meters. Their reports convinced the utility to swap out all the meters manufactured by Sensus Metering Systems Inc. of Raleigh, N.C., with those made by a Swiss vendor, Landis & Gyr A.G. "We determined that the L&G meter is the best solution for PECO customers, that it performed better in the field, and that was confirmed by testing," said Cathy Engel Menendez, PECO's spokeswoman. (Maykuth, 2012).

The pictures of my de-deployed smart meter #12006767348 show both Landis + Gyr and Sensus names, and "Assembled in Mexico 2S."

Who has the "rogue meter?"

**PECO collected 55 days of Smart Meter data since installation of my Frigidaire Energy Star refrigerator, so what happened to my energy savings?**

June 2014 PECO hauled away my functioning energy-guzzling refrigerator, dismantled it, and paid me a rebate. Their website says that my old refrigerator "...could use three times more electricity than a newer model, consuming nearly \$150 in energy each year." (PECO)..

Attached is my receipt from Lowe's for purchase of an Energy Star Frigidaire refrigerator installed July 5, 2014 which replaced the comparatively-sized decades old GE model.

Attached is the check stub from PECO \$75 rebate for same.

The attached Frigidaire Manufacturer Specification Sheet shows 383 kWh in annual consumption. Assuming the PECO website is correct, my old refrigerator used 1,149 kWh annually. It was expected that my kWh consumption would *decline* by 766 kWh the past year.

Payments for PECO invoice transaction dates 8/18/2014 – 12/02/2014 (5 months) averaged \$55.78. Payments for transaction dates 1/23/2015 – 4/24/2016 (16 months) averaged \$73.51. The difference is \$17.73 per month, or \$283.68 total *overcharge* (i.e. \$17.73 X 16 months) during this time.

Brenda Eisen representing PECO argues that data collection via analog meter isn't possible — contrary to verbiage on the Invoice which allows for Customers to self-report their data. Historically customers sent in monthly readings postcards. The idea that PECO IT is not capable of maintaining this primitive database is laughable. As an individual with MS in Instructional Technology at

**Susan Kreider v. PECO Energy Company**

**Customer Account #47458-02006**

**PUC Docket No.: C-2015-2469655**

Philadelphia University, in 2005, I wrote simple code and uploaded a web-based Petition capable of collecting names and comments as a student project. It's fairly basic stuff! How do States allowing for 'Opt-Outs' manage this feat?

### **The Customer is responsible for costs associated with the Service Line**

My analog meter is protected with a padlock because the socket is outside and the meter could be tampered with by any trespasser with nefarious intent. As per prior testimony the PECO technician dispatched January 9, 2015 to inspect the socket *refused the padlock key I offered*.

With respect to that January 9<sup>th</sup> appointment, arguably *PECO committed fraud* by issuing a WORK ORDER that did not match the terms of the 10-DAY SHUT-OFF NOTICE.

As per prior testimony the PECO technicians have refused my offers to return Smart Meter #12006767348. It is therefore boxed and stowed in the window seat of my living room near the front door as I await instructions for its return.

Attached is a sketch by a licensed electrician with estimate of \$8-10K *minimum* to move the smart meter to the utility pole across the street which is the only settlement alternative offered by PECO. It is dependent upon a Permit issued by the City of Philadelphia and would use *more* electricity associated with the expected voltage drop from the added 320 L.F. distance. The smart meter accessible to pedestrian sidewalk traffic would be more vulnerable to vandalism.

### **Maximum emissions for a person to receive are almost impossible for Government to regulate:**

One reason is because of the combined effect of all transmitters, in a given area interacting together (constructive interference.) Alasdair Phillips, Director of Powerwatch, found masts all over the UK that do not comply with planning regulation. (Trower, 2010; Phillips, 2002). There can be a piggy-back effect. It is argued (Trower, 2010; Curry updated) that this amplification of electromagnetic signal can pose a health risk for those in close proximity to a transmitter.

An assessment of constructive interference within a 4.0 mile radius of 169 W Queen Lane, Philadelphia PA 19144 (Complainant's residence) yields a result of 88 Tower Structures, no New Tower Applications, and 895 Antenna Locations detected April 16, 2016. (<http://www.antennasearch.com>)

### **Microwaves are the preferred medium for communication, over radiowaves, due to their superior penetrative properties, and ability to carry more information**

It may be difficult for regulators to assess individual microwave radiation exposures, but PECO shamelessly disregards public health and the *precautionary principal* by making smart meters the only option for electricity metering as Table 1 illustrates:

## Ranking Electricity Meters for Risk to Health, Privacy, and Cyber Security

Table 1: Summary of Risk Rankings

Table 1 summarizes the risk rankings of electricity meters, based on the detailed analysis that follows. "5" is the highest risk. Blank is the lowest risk. Capital letters group meters with similar, but not necessarily identical, risk rankings. The priorities among the three types of risk addressed are these:

- **Health:** The meters are arranged in descending order by Risk to Health, which the author believes to be the single most important risk factor.
- **Privacy:** The meters with the same Risk to Health are arranged in descending order by Risk to Privacy.
- **Cyber Security:** The meters with the same Risk to Health and the same Risk to Privacy are arranged in descending order by Risk to Cyber Security.

The Wireless Smart Meter poses the highest risk in all three categories of risk. In contrast, the Traditional Analog Meter poses the lowest risk in all three categories of risk. This analog meter can also be correctly called:

- Traditional Analog Mechanical Meter
- Traditional Analog Electromechanical Meter
- Traditional Analog Mechanical Meter with No Wireless Communications Capability
- Traditional Analog Mechanical Meter with No Electronic Circuitry.

Meter Category	Type of Communication		Overall Risk 5 is highest. Blank is lowest.		
	Wireless	Wired	Risk to Health	Risk to Privacy	Risk to Cyber Security
<b>G</b> SMART METER	WAN/HAN	✓	5	5	5
AMR Meter	Bubble Up	✓	4	4	
<b>F</b> Analog Meter (plus wireless digital electronics)	Bubble Up	✓	4	4	
AMR Meter	Wake Up	✓	3	2	
<b>E</b> Analog Meter (plus wireless digital electronics)	Wake Up	✓	3	2	
<b>D</b> SMART METER	Internet cable/fiber	✓	2	4	4
AMR Meter	Internet cable/fiber	✓	2	4	
<b>C</b> SMART METER	Telephone landline	✓	2	3	5
AMR Meter	Telephone landline	✓	2	1	
<b>B</b> Basic Digital Electronic Meter	None		2		
<b>A</b> Traditional Analog Meter	None				

The reason for change is not about safety, but because Utilities were not seeing increased revenue stream so has turned to data. (Thiesen, 2016).

'Microwave or radiowave sickness' was first reported in August 1932 with the symptoms of severe tiredness, fatigue, fitful sleep, headaches, intolerability and high susceptibility to infection. (Trower, 2010; Hecht 2007). These symptoms were reported to be from athermal effects.

By 1971, the US Naval Medical Research Institute (NMRI) referenced 2300 research articles listing in excess of 120 illnesses attributed to radio frequency and non-ionizing microwave radiation. Under the Freedom of Information Act, extracts from published US Defense Intelligence Agency Documents confirmed the NMRI research stating: "If the more advanced nations of the West are strict in enforcement of stringent exposure standards, there could be unfavourable effects on industrial output and military functions." (Trower, 2010; DST 1976). By 1997 over 100 further research documents were referenced. (Trower, 2010; Grant, 1997).

The International Commission on Non-Ionizing Radiation Protection recommends that decision-makers be aware that children, the elderly and chronically ill may have a lower tolerance for microwave exposure. (Trower, 2010; ICNRP, 2002).

In their 200 page health study, the Health Council of the Netherlands warned, 'Experimental data indicated effects from microwave irradiation occurred at lower power densities if the microwaves were pulsed.' (Trower, 2010; Health Council 1997).

**Susan Kreider v. PECO Energy Company**

**Customer Account #47458-02006**

**PUC Docket No.: C-2015-2469655**

The [AZ Department of Health Services] ADHS points out that radio frequency can come "... from natural sources (e.g. the sun) or from man-made sources (e.g. radios)... Some common household items use RF and are regulated by the FCC. To illustrate this point there are pictures of a radio, 'smart' meter, microwave oven, television, cell phone and WiFi router, and those are grouped as 'Common Household RF Sources'... Comparison with these items is the hallmark of 'smart' meter boosters and apologists. A truly objective study of 'smart' meter health effects would not include it ... The items listed – radios, microwave ovens, televisions, cell phones and WiFi routers – are all items one can choose or not choose... I seldom listen to the radio and, when I do, our radio, unlike a 'smart' meter, only receives; it does not transmit. Our television does not transmit either. ADHS is completely wrong in listing radios and TVs as 'Common Household RF Sources' ... Exposure to 'smart' meter radiation is beyond the control of the individual and, in fact, chronic – 24/7/365. Even the sun (which necessitated the invention of the hat for shielding) gives us a break for roughly half the day. The 'smart' meter never quits... Additionally, no one has to pay to 'opt out' of the sun. And no one has to pay to 'opt out' of a radio, cell phone, TV, microwave, or WiFi router." (Woodward, 2015).

PECO's expert witness Mark Israel MD was asked about cumulative effects of EMR; is it similar to cigarettes? He minimized the effects of EMR compared to the now well-known dangers tobacco scientists refuted for decades. He offered his analogy that it is more like: "A feather dropping on your head every hour." I shared this anecdotal story widely, with friend and colleagues, garnering the following responses in addition to the gasps with eye-rolling, appreciative laughter, and blank looks. A couple of them said, "Well, I would find it very annoying if a feather dropped on my head every hour!" My dentist said, "One of those feathers is going to drop straight down, and if you happen to be looking up you could sustain injury from a quill in your eye!" One of the eye-rollers, a research scientist, said that a physicist would never make such an analogy between EMR and feather!"

Woodward advances a better analogy: ADHS faithfully parroted the ICNIRP, IEEE, FCC line when they wrote the following about "time-averaging". Sadly, ADHS did not have the wits to realize how preposterous a concept it is, how this major flaw condemns the FCC guidelines to absolute irrelevance regarding health effects:

"The time-averaging concept can be used to determine the levels of exposure. This means that it is acceptable to exceed the recommended limits for short periods of time as long as the average exposure does not exceed the limit.

"Actually, what that means is that they are averaging power density over time to make that power seem OK. It's a way to level off peaks in transmission, to make those peaks disappear.

Think about this: If I hit you with a hammer will it feel better if we "time-average" that blow? Would you like to try that? I can show you on paper how, when averaged out over time, you'll hardly feel anything. (Woodward, 2014). If aimed at your head, would you still sustain a concussion?



**Susan Kreider v. PECO Energy Company**  
**Customer Account #47458-02006**  
**PUC Docket No.: C-2015-2469655**

**Corporate experts may present biased literature review**

PECO experts do not dispute Electro Hypersensitivity Syndrome (EHS), but claim that the Complainant "Ms. Kreider doesn't have it."

By definition a syndrome is a combination of symptoms resulting from a single cause or so commonly occurring together as to constitute a distinct clinical picture. (<http://medical-dictionary.thefreedictionary.com/syndrome> )

Former pediatrician Mark Israel, MD described Guillian Barré Syndrome as a condition that affects the immune system. More specifically, (GBS) is a disorder in which the body's immune system attacks part of the peripheral nervous system. ([http://www.ninds.nih.gov/disorders/gbs/detail\\_gbs.htm](http://www.ninds.nih.gov/disorders/gbs/detail_gbs.htm))

"It is always important to call things what they really are. 'Electromagnetic hypersensitivity' connotes that it is the victim's fault for being 'hypersensitive' (read 'weak'), and not industry's fault for poisoning them. Also, since exposure to EMF continues to increase exponentially, it is a safe bet that the nine year old survey referenced by ADHS is well out of date. It is also likely that the survey is grossly inaccurate since many doctors are ignorant of the symptoms of radio wave sickness and so misdiagnose and miscalculate. Indeed, many people have cured their own radio wave sickness, in spite of their doctor's misdiagnosis, by removal of the offending EMF sources, the 'smart' meter being one of the major culprits. (Woodward, 2014).

Indeed, Exelon Council Ward Smith, Esq. was so unfamiliar with the EHS he struggled with pronunciation.

Microwave apologist Dr. Israel feigned humanitarianism by stating that people are not subjects of microwave studies, only rats, because it would be unethical. Ms. Eisen who has no medical credentials testified that she receives health complaints from customers. Having experienced her handling of such complaints, pleasantly dismissive via the party line, I would point out that *PECO is conducting human studies without our consent*. Anecdotal reports constitute data because, in the aggregate, they all point in the same direction.

The Complainant has a chronic sensory variant of GBS; new symptoms of EHS were exacerbated when a smart meter was deployed on her house for 15 months. Many of these symptoms improved during the 20 months since it has been removed, especially: migraines, 3:30AM palpitations with subsequent insomnia, irritability, ear pain/pressure, fluid-filled bumps on scalp, and muscle rigidity and spasms.

The *Journal of Industrial Medicine* published its concern over industrial affiliation being concealed by research scientists; suggesting biases from conflicting interests in risk assessments cannot be evaluated properly. (Trower, 2010; Hardell, 2006).

Woodward further calls out the ADHS: The [Council on Science and Technology] CCST report is not primary research. Its conclusions are based on cherry picked information. It has every appearance of "science" for a

**Susan Kreider v. PECO Energy Company**

**Customer Account #47458-02006**

**PUC Docket No.: C-2015-2469655**

preconceived outcome because contributors to the report whose findings did not support that preconceived outcome – that “smart” meters pose no public health problems – had their solicited submissions removed but they were still listed as contributors!

*Here is what rejected contributor Dr. Magda Havas had to say about the CCST and their report: January 17, 2011. The California Council on Science and Technology (CCST) released their report on Smart meters ‘Health Impacts of Radio Frequency from Smart Meters.’*

*CCST invited me to submit a written report as part of a Technical Response Team in October 2010. Note: CCST did not offer, and I did not request, payment for my report.*

*In December I was informed that neither my report nor any of the others would be appended to the final document nor would they be made available to anyone. (Woodward, 2014; Havas, 2011).*

*My submission does not support the final conclusions in the CCST report and I provide it here for anyone interested. (Havas, 2010).*

The CCST is so intellectually dishonest that they still listed Dr. Havas as a contributor to their report even though they rejected her findings. (Woodward, 2014; Havas, 2011). Woodward lists other cited contributors whose findings were rejected because they didn’t meet the CCST Report’s objectives. I specifically include Dr. Havas in my Brief because it is on her website from which I retrieved the frequently referenced Barrie Trower paper.

Professor Hyland argues that any view contrary to ‘prevailing officially perceived wisdom’ is at worst silenced, or, at best, studiously ignored. (Hyland, 2001). It is what I tend to call ‘intentional ignorance.’ (Trower, 2010).

*The Independent on Sunday, reporting on international studies, wrote that ‘new studies... show that radiation did have an effect, even though people could not tell when they were exposed.’ (Trower, 2010; Lean, 2008).*

**Daily transmissions to PECO vs. pulse frequency**

"Transmitting data to the utility" and transmitting for any purpose are very different concepts. See how they compare in the table on page 6 of the following reference: (Ron Powell, personal communication, April 25, 2016)

**Susan Kreider v. PECO Energy Company**

**Customer Account #47458-02006**

**PUC Docket No.: C-2015-2469655**

**Question 2:**

How many times in total (average and maximum) is a smart meter scheduled to transmit during a 24-hour period?

**Response 2:**

**Electric:** Table 2-1 presents scheduled electric SmartMeter™ system messages and their durations. As noted in Response 1, the information presented applies only to the 900 MHz radio. Table 2-1 presents data for all “scheduled” messages; i.e., those inherently required to sustain communications in the network that occur routinely without user intervention. “Non-Scheduled” messages created only at non-recurring times are addressed in Response 3.

**TABLE 2-1**

<b>Electric System Message Type [a]</b>	<b>Transmission Frequency Per 24-Hour Period: Average [b]</b>	<b>Transmission Frequency Per 24-Hour Period: Maximum (99.9<sup>th</sup> Percentile) [c]</b>
Meter Read Data	6	6
Network Management	15	30
Time Synch	360	360
Mesh Network Message Management	9,600	190,000
<b>Weighted Average Duty Cycle</b>	<b>45.3 Seconds<sup>4</sup></b>	<b>875.0 Seconds</b>

The electric system message types are defined as:

- Meter Read Data refers to the messages generated by each meter to transmit energy usage data.
- Network Management refers to network tasks that need to be performed to maintain the health of the network (e.g., route establishment).
- Time Synch refers to network administration messages needed to update the internal clock in the NIC.
- Mesh Network Message Management refers to activities required to forward routed messages.

**Question 2.a.:**

How many of those times (average and maximum) are to transmit electric usage information?

**Response 2.a.:**

**Electric:** Generally, the Meter Read Data messages shown in Table 2-1 transmit electric usage data from the meter generating the data. Mesh Network Message Management messages also transmit electric usage data from neighbor meters.

Susan Kreider v. PECO Energy Company

Customer Account #47458-02006

PUC Docket No.: C-2015-2469655

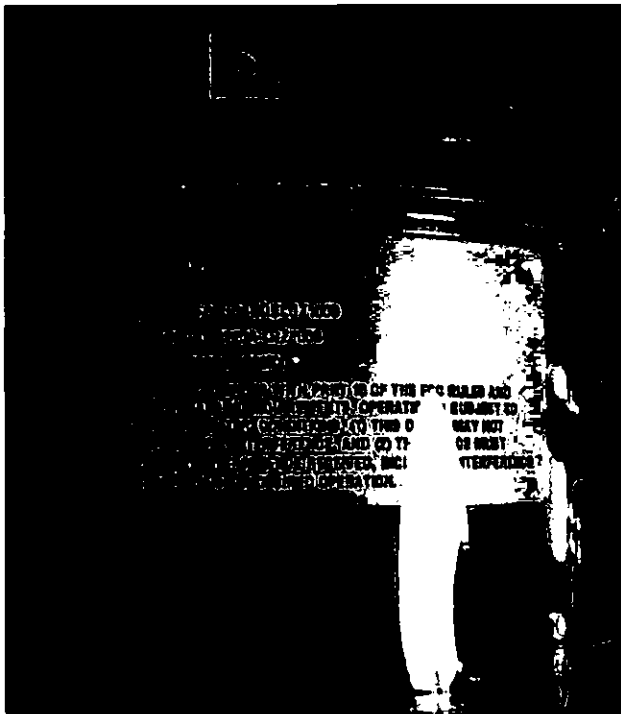
Question 2.b.:

How many of those times (average and maximum) are for other purposes? What are those other purposes? Please specify number of times (average and maximum) by type/category of transmission.

Response 2.b.:

Electric: The scheduled electric messages are shown in Table 2-1 and defined in Response 2. The Network Management and Time Synch messages are for administration and mesh maintenance, as explained in Response 2. They are required to sustain the routing capability of the mesh network.

**Conclusion**



Picture left:

Label on smart meter #12006767348 has both names LANDIS + GYR and SENSUS.

It also reads: "...OPERATION SUBJECT TO THE FOLLOWING TWO CONDITIONS. (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE."

This device caused harmful interference to my life from the moment it was deployed. PECO chose the east safe electricity metering device available. They callously dismissed my health complains, disrespected, and bullied me, committed fraud by their misrepresentations.

It is my fundamental right to protect my health. The law is settled that businesses provide reasonable accommodations to persons with a disability. The science recognizing radiowave sickness is established. Who would you believe the testimony of witnesses paid by Industry, or those who come out of retirement, such as Trower and Powell, to provide expert testimony at no charge for the benefit of mankind because they truly are humanitarians? Unchecked power is the foundation of tyranny.

Complainant seeks reimbursement of expenses related to over- estimations of kWh billed. Complainant wants to keep the Sangamo she purchased when no reasonable alternative technology was offered, and the ability to report actual kWh as per the reliable analog meter, consideration of compensation for damages, fees for Licensed electrician consulted for remediation, and lost wages.

**Susan Kreider v. PECO Energy Company**  
**Customer Account #47458-02006**  
**PUC Docket No.: C-2015-2469655**

## References

Blanc, Martin. (2014, December 12). Arizona Corporation Commission (ACC). *Radiation Victims Testify at Arizona Smart AMI AMR RF Transmitting Utility Meter Meeting 12/12/2014*. [Video file]. Retrieved from <http://stopsmartmeters.org/2015/02/03/tinfoil-hat-ladies-of-arizona-strike-back-acc-commissioner-bob-stump-mocks-electro-sensitive-woman-on-twitter-as-smart-meter-opposition-movement-swells-nationally/> at 0:22.

DST. (1976). *Defence Intelligence Agency Documents*. 1972 -1983. DST - 1810S – 076-76. ST-c5-01-169-72. DST-18105-074-76.

Grant, L. (1997). *Microwave Sickness*. Electrical Sensitivity News. Vol. 1 NO.6 Vol. 2 Nos. 1-4

Hardell, L et al. (2006). Secret Ties to Industry and Conflicting Interests in Cancer Research. *American Journal of Industrial Medicine*. p.1 May. 2006. [Wiley-Liss Inc.] [www.interscience.wiley.com](http://www.interscience.wiley.com) Dept of Oncology. University Hospital. Orebro University. Sweden.

Havas, M. (2010). *Havas submission to CCST 'report on smart meters*. Retrieved from <http://www.magdahavas.com/wordpress/wp-content/uploads/2011/01/Havas-Report-CCST-Smart-Meters.pdf>

Havas, M. (2011). *Health impacts of radio frequency from smart meters*. Retrieved from <http://www.magdahavas.com/wordpress/wp-content/uploads/2011/01/Havas-Report-CCST-Smart-Meters.pdf>

Health Council. (1997). *Radiofrequente elektromagnetische velden (300 Hz - 300 GHz)* Health Council of the Netherlands: Radiofrequency Radiation Committee. P.134

Hecht, K et al. (2007). *Overloading of Towns and Cities with Radio Transmitters (Cellular Transmitter): a hazard for the human health and a disturbance of ecoethics*. IRCHET. International Research Centre of Healthy Ecological Technology. Berlin-Germany. P.1 para.3

ICNRP. (2002). *General Approach to Protection Against Non-Ionizing Radiation Health Physics* April 2002 Vol. 82. No.4. pp.545-546.

Lean, G. (2008). Radiation from mobile harms sleep, says study funded by phone makers. *The Independent on Sunday*. 20-1-2008 Geoffrey Lean. 2 news. [www.independent.co.uk](http://www.independent.co.uk)

**Susan Kreider v. PECO Energy Company**

**Customer Account #47458-02006**

**PUC Docket No.: C-2015-2469655**

Martinez, L. (2015, March 30). Stockton Smart Meters Explode After Truck Causes Power Surge. *CBS Sacramento*. Retrieved from <http://sacramento.cbslocal.com/2015/03/30/stockton-smart-meters-explode-after-truck-causes-power-surge/>

Maykuth, A. (2012, October 11). PECO to resume smart meter installations with new manufacturer. *The Philadelphia Inquirer*. Retrieved from [http://articles.philly.com/2012-10-11/news/34364508\\_1\\_sensus-meters-landis-gyr-ag-smart-meters](http://articles.philly.com/2012-10-11/news/34364508_1_sensus-meters-landis-gyr-ag-smart-meters)

*PECO Smart Appliance Recycling*. Retrieved from <https://www.peco.com/Savings/ProgramsandRebates/Residential/PECOsmartApplianceRecycling/Pages/Overview.aspx>

Powell, R. (2011, November 1). *PACIFIC GAS AND ELECTRIC COMPANY'S RESPONSE TO ADMINISTRATIVE LAW JUDGE'S OCTOBER 18, 2011 RULING DIRECTING IT TO FILE CLARIFYING RADIO FREQUENCY*. Retrieved from [http://emfsafetynetwork.org/wp-content/uploads/2011/11/PGERFDataOpt-outalternatives\\_11-1-11-3pm.pdf](http://emfsafetynetwork.org/wp-content/uploads/2011/11/PGERFDataOpt-outalternatives_11-1-11-3pm.pdf)

Powell, R. (2015, November 12). *Ranking Electricity Meters for Risk to Health, Privacy, and Cyber Security*. Retrieved from <https://www.scribd.com/doc/291507610>

Thiesen, B. (2016, March 10). *Smart Meter Fires: Burning meters, burning questions, shocking answers* [Video file]. Retrieved from <https://takebackyourpower.net/smart-meter-fires-2016-video/>

Trower, B. (2010, April). *Talk Prepared by Barrie Trower for the King of Botswana*. Retrieved from [http://www.magdahavas.com/wordpress/wp-content/uploads/2010/08/Barrie\\_Trower\\_SA.pdf](http://www.magdahavas.com/wordpress/wp-content/uploads/2010/08/Barrie_Trower_SA.pdf)

Woodward, W. (2014, November). *A Pattern of Incompetence and Fraud*. Retrieved from <http://www.freedomspheonix.com/Uploads/687/media/ACC%20-%20A%20Pattern%20of%20Incompetence%20and%20Fraud.pdf>



**Kreider, Susan**

**From:** customercare@lowes.com  
**Sent:** Wednesday, September 03, 2014 2:59 PM  
**To:** Kreider, Susan  
**Subject:** Your Order is in Process



## Your Order Is in Process

View details below.

Your Account

**Store Name:** LOWE'S OF W.  
PHILADELPHIA, PA

**Store #:** 2378

**Store Address:** 1500 NORTH 50TH  
STREET  
PHILADELPHIA, PA  
19131

### Order Summary

**Order Date:** 06/04/2014  
**Order #:** 306150697  
**Invoice #:**  
**Order Total:** \$690.12

### Need Help?

#### Email Customer Care

**Call 1-800-445-6937**

Our Customer Care team is available Monday — Saturday 7 a.m. — 1 a.m. (ET), and Sunday 10 a.m. — 9 p.m. (ET).

### Give a Lowe's Gift Card



Choose from more than 200,000 items in-store and on Lowes.com.  
**View Gift Card Options** ▶

### Subscribe to News & Specials

Dear Susan,

Thank you for placing your order with Lowe's. Your order is now in process.

To check the status of your order, please call Lowe's Customer Care at 1-800-44-LOWES (56937) or email [customercare@lowes.com](mailto:customercare@lowes.com). Thank you for shopping at Lowe's.

Sincerely,  
Lowe's Customer Care

### Lowe's Delivery

Products Ordered	Unit Price	Quantity	Total
<b>18.2 Cu. Feet Top-Freezer Refrigerator (Stainless Steel) Energy Star</b> Item #: 355190 Model #: LFHT1817LR	\$639.00	1	\$639.00

Deliver To	Lowe's Location
Susan Kreider 169 W Queen Ln Philadelphia, PA 19144 (215) 849-1698	LOWE'S OF W. PHILADELPHIA, PA 1500 NORTH 50TH STREET PHILADELPHIA, PA 19131 Store Number: 2378 Store Phone: (215) 796-6640

A Lowe's representative will call within 24 hours of purchase to schedule your delivery. If you don't receive a call after 24 hours, please call Customer Care at 1-800-44-LOWES Monday through Saturday, 7 a.m. to 1 a.m. (ET) and Sunday, 10 a.m. to 9 p.m. (ET).



OLIVIA MUNN



BRIGHT IDEAS FOR SMART HOMES

READ THE ARTICLE

Reviews

Reviews

News

Video

How To

Deals

US Edition

T-Mobile



UNLIMITED LTE DATA

SWITCH TODAY



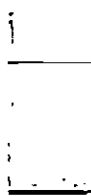
CNET &gt; Appliances &gt; Refrigerators &gt; Frigidaire FFHT1817LS - refrigerator/freezer - top-freezer - built-in - stainless steel &gt; Specs

# Frigidaire FFHT1817LS - refrigerator/freezer - top-freezer - built-in - stainless steel Specifications

OVERVIEW

USER REVIEWS

SPECIFICATIONS



## Frigidaire FFHT1817LS - refrigerator/freezer - top-freezer - built-in - stainless steel

Part Number: FFHT1817LS

3 LINES, \$50 EACH/mo.

SWITCH TODAY



### GENERAL /

Total Net Capacity	18.2 l
Energy Consumption per Year	383 kWh
Refrigerator Net Capacity	14.1 cu. ft
Freezer Net Capacity	4.1 cu. ft
Compliant Standards	CSA
Color	stainless steel
Exterior Features	UltraSoft doors
Form Factor	Built-in
Doors Qty	2
Reversible Doors	Yes
Doors Features	automatic door stop
Automatic Defrost	Yes
Special Features	SpaceWise adjustable glass shelves, Store-More crisper drawers, Store-More gallon door shelf, Store-More gallon door storage, Store-More organizational system, chiu lock
Control Features	Ready-Select controls
Manufacturer	Electrolux

### DIMENSIONS & WEIGHT /

Width	30 in
-------	-------

### WHERE TO BUY /

## Frigidaire FFHT1817LS - refrigerator/freezer - top-freezer - built-in - stainless steel

Part Number: FFHT1817LS

Visit manufacturer site for details.

SUSAN KREIDER

SUSAN KREIDER

0000150374

22224 101018

75

Account Number

Invoice Number

Amount

Account Number

Invoice Number

Amount

a27C0000000JMI4IA0

PB001709HEIE

75.00

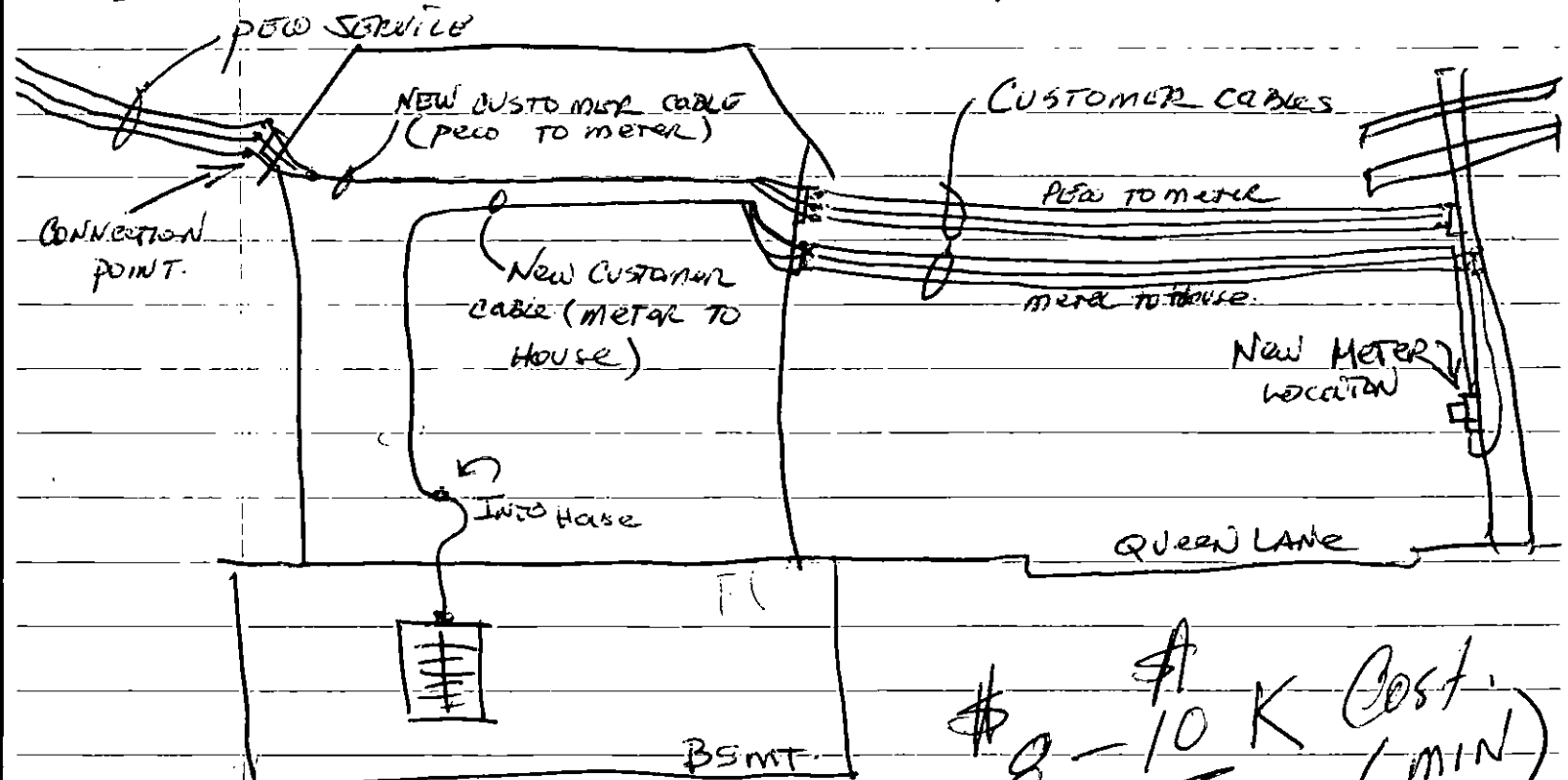
PECO rebate

169 W. Queen Lane  
Phila Pa. 19144

EXISTING CONDITION



NEW SERVICE (Relocated Meter)



CONCERNS

- ALSO, VOLTAGE DROP (~~± 200-4~~ 320)
- CITY PERMISSION TO CROSS STREET.

\$ 8 - 10 K Cost. (MIN)

## **BBC News**

### **Gadget 'allergy': French woman wins disability grant**

27 August 2015

From the section Technology

#### **Electromagnetic hypersensitivity (EHS) sufferers say radiowaves affect their health**

A French woman has won a disability grant after telling a court she suffers from an allergy to electromagnetic radiation from gadgets. Marine Richard, 39, was told she may claim €800 (£580) per month for three years as a result.

She said it was a "breakthrough" for people affected by electromagnetic hypersensitivity (EHS). The condition is recognised by the World Health Organisation (WHO), though it says the causes are unclear.

Ms Richard had resorted to living in a remote area in the mountains of south-west France - in a barn that has no electricity. She said she had been affected by everyday gadgets such as phones. Typical symptoms reported by those who say they suffer from EHS include headaches, fatigue, nausea and palpitations.

The disability allowance was granted by a court in Toulouse, though the ruling did not formally recognise EHS as an illness.

#### **School sued**

In a case in the US, the parents of a 12-year-old boy who they say is hypersensitive to his boarding school's WiFi have decided to file a lawsuit against the establishment. The parents say their son, a day pupil, has been diagnosed with EHS. They say he began suffering from headaches, nosebleeds and nausea after the Fay School installed new WiFi in 2013.

The school asked the communications technology firm Isotrope to assess the electromagnetic emissions on campus. "Isotrope found that the combined levels of access point emissions, broadcast radio and television signals, and other RFE emissions on campus comply with federal and state safety limits by a wide margin," the school said in a statement.

The statement also quoted from the Isotrope report, which said that levels of emissions both in the school and on the grounds "were substantially less than one ten-thousandth (1/10,000th) of the applicable safety limits (federal and state)".

# Understanding electromagnetic fields

By Philippa Roxby, BBC News Health Reporter

## Electromagnetic fields are all around us but most cannot be seen.

In recent years a lot of research has been carried out into man-made sources of these fields, such as electrical power supplies and appliances in the home. X-ray machines, TV and radio transmitters, mobile phones, WiFi and microwave ovens are all everyday sources of electromagnetic waves.

Those who are sensitive to them talk of experiencing headaches, sleeplessness, ear pain when using a mobile phone, skin tingling and problems with concentration and memory. For them, the only solution at present is to avoid objects that emit radiation in the home - not easy in the modern world.

In the UK, electromagnetic hypersensitivity is not a recognised condition. That's because Public Health England says there is no scientific evidence that electromagnetic fields damage people's health. The WHO agrees and believes more research on long-term health effects needs to be done.

## Difficult case

Although some countries, notably Sweden and the US, have officially recognised EHS as a condition, there is still much debate over whether a legal case on the condition would be worthwhile in certain other states. In the UK, for example, members of the public who are worried about exposure to mobile phone masts tend to challenge their construction on a planning basis, according to research group Powerwatch.

"The health issue is close to a no-win in this country at the moment," Graham Lamburn, its technical manager, told the BBC. "You really need to win on things like 'it's devalued my property because it's outside my window' or 'there's an irregularity in the way it's been put through with planning'."

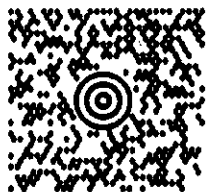
Electrosensitivity UK (ES-UK), a charity that campaigns for wider recognition of EHS, said it welcomed the French court's decision. "Several people in the UK have been diagnosed with electrosensitivity and received help for the disability but any financial allowance usually refers to a different name for the condition or a related condition," it said in a statement.

SUSAN ELIZABETH KREIDER  
(215) 849-1698  
169 W QUEEN LANE  
PHILADELPHIA PA 19144

1 LBS 1 OF 1  
SHP WT: 1 LBS  
DATE: 29 APR 2016

SHIP ROSEMARY CHIAVETTA  
TO: COMMONWEALTH KEYSTONE BUILDING  
400 NORTH ST

HARRISBURG PA 17120-0200

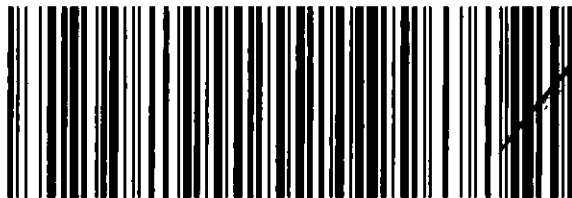


PA 171 9-20



UPS GROUND

TRACKING #: 1Z 5AR 414 03 2076 7538



P/P

ISBN 13.00N Z2P 450 72.5U 01/2016

STAPLES

copy & print