Dear Kentucky Public Service Commission, President, agents, officers, employees, contractors and interested parties of the Kentucky PSC;

This Letter is for Public Comment in regards to Case File 2016-00394 and any other Case Files that are associated with Wireless Utility Meters. (CD Enclosed)

I recently have been made aware that Kentucky American Water is heavily involved in the illegal installation of dangerous Class 2b Carcinogenic wireless utility meters. I feel I must warn other states and their Public Service Commissions about the dangers of installing these wireless meters and constantly radiating all of us and our environment. Please note the following public comments to be entered into the above mentioned Dockets.

Considering to allow **Kentucky American Water** to deviate from annually inspecting their meters, meter settings, and valves is not only unethical but a financial danger to all consumers who purchase from them. In regards to the wireless water meters that these utility companies have forced unknowingly on the public, I feel it is my responsibility to protest this deviation. These wireless water meters are known to cause billing errors based on malfunctions, spiking during usage, incorrect data information at collector units, and much, much, more! The following information provided should be more than enough to warrant the removal of the wireless water meters.

If the removal is not done, then the utilities should be forced to inspect the dangerous wireless water meters on a monthly basis due to all the malfunctions and damages associated with their installations!

I am from your neighboring state Ohio. Within the last several years I noticed that myself, my family, friends and neighbors seemed to be coming down with headaches, allergies, colds, flu, and a multitude of other health problems. The medical doctors never seemed to pay much attention to the alarming increase of illnesses.

We also noticed that our trees were dying in our neighborhoods.

It was not until I finally called my Naturopathic Doctor that I found out why we had all suddenly started coming down with such a wide range of symptoms and illnesses.

I was informed to check to see if a wireless utility meter had been installed on our homes. Since I had not been notified of any changes to my utility meters, I was caught off guard when I found several connected to all our homes.

After speaking with the only doctor that seemed to know what was going on, I immediately started researching the information I was given.

By the time I was able to have the wireless meters removed, I was so lethargic and sick that I could barely function.

Within only a few days of having the wireless meters removed, I started to feel better and within a month I felt back to normal!

During this time, I have noticed that if I spend too much time in stores or restaurants I suddenly don't feel well. I have investigated this, and it is because these stores have wireless meters on their buildings.

I do not get sick when I am in buildings that don't have the wireless meters!

Just a few minutes of research confirms that this is happening all across the United States to millions of people!

I would like it to be noted that my family's health suffered tremendously after wireless utility meters were installed on our homes and businesses. (without our knowledge or consent)

This has created a serious physical, emotional, and financial burden for us!

Not only are we being exposed to these dangerous frequencies at our jobs and public venues, but our childrens' future health is being destroyed because they have installed these on the daycares and schools!

I am opposed to all wireless utility meters in all states for the following reasons:

1. **Duke Energy, all of its associated Utilities, Kentucky Utilities, Kentucky American Water (as well as other Utility Companies not listed here) and the Kentucky Public Service Commission** are well aware of not only the violations of wireless utility meters, but the Health and Environmental Damages caused by accumulation of exposure to these **Class 2b labeled Carcinogenic / DNA damaging, wireless utility meters**. This is evidenced by carefully reading all of the case files listed below (as well as thousands more across the United States) and reading the unbiased medical research, doctors letters, public complaints, lawsuits, etc… that have been filed against the utilities and the PSC's;

***Ohio PSC : Case File 14-1160-EL-UNC**

***South Carolina PSC: Docket No. 2016-354-E, Docket 2017-19-E, Docket No. 2013-59-E**

***North Carolina PSC: Docket No.** E-7 Sub 1115 **(Note: Originally Docket No. E-100, SUB 141)**

***Kentucky PSC: Case File 2012- 00428, 2016-00394, 2016-00187, 2016-00152, 2016-00370**

***Florida PSC: Case File Docket No. 130223**

2. Duke Energy, all of its associated Utilities, Kentucky Utilities, Kentucky American Water (as well as other Utility Companies not listed here) as well as the PSCs in the above mentioned states have been provided with the following:

Laws Violated By Smart Meters:

https://www.law.cornell.edu/uscode/text/50/1520a

50 U.S. Code § 1520a - Restrictions on use of human subjects for testing of chemical or biological agents
(a) **Prohibited activities**
The Secretary of Defense may not conduct (directly or by contract)—
(1)any test or experiment involving the use of a chemical agent or **biological agent on a civilian population**; or
(2)any other testing of a chemical agent or **biological agent on human subjects.**

http://www.nist.gov/smartgrid/

"THERE IS NO FEDERAL SECURITY MANDATE FOR SMART METERS, according to George W. Arnold the national coordinator for smart-grid interoperability at the National Institute of Standards and Technology [NIST]. This agency of the US Department of Commerce is said NOT [author emphasis] to be involved in regulations but is only tasked with promoting standards among industries. While both the 2005 and 2007 faux energy bills were codified into public laws, NO part of them creates a federal law pertaining to individual consumers or dictating that the public must be forced to comply with provisions of SMART grid. Contrary to the bleating of manufacturers and utility talking heads, who claim there is no "op out," the fact is you, the consumer must be offered the meter, or request a meter 'OPT IN.' No one can be forced to comply with an unrevealed contract between private corporations, and to which you were never a party and had no knowledge of."(12)

http://energy.gov/sites/prod/files/2013/10/f3/epact_2005.pdf

Energy Policy Act of 2005 states:

Utility shall make available upon request
Utility shall offer and provide upon request
May be offered

See Below

http://www.demandresponsesmartgrid.org/Resources/Documents/Final_NCEP_Report_on_DR_and_SM_Policy_Actiona_08.12.pdf

Demand Response and Smart Metering Policy Actions Since the Energy Policy Act of 2005
A Summary for State Officials . National Council on Electricity Policy Fall 2008

(Note: There is NO MANDATE and the Smart Metering is to be "offered", "encouraged", or "Requested by the Customer")

(Section 1252 p.8 of 84) A statement that pursuit of demand response is in the policy interest of the United States.

That provision is as follows:
"Federal Encouragement of Demand Response Devices-It is the policy of the United States that time-based pricing and other forms of demand response, whereby electricity customers are provided with electricity price signals and the ability to benefit by responding to them, shall be encouraged, the deployment of such technology and devices that enable electricity customers to participate in such pricing and demand response systems shall be facilitated, and unnecessary barriers to demand response participation in energy, capacity and ancillary service markets shall be eliminated. It is further the policy of the United States that the benefits of such demand response that accrue to those not deploying such technology and devices, but who are part of the same regional electricity entity, shall be recognized."
• A new Standard under the Public Utilities Regulatory Policies Act (PURPA) focused on demand response and its enabling technologies. The new Standard calls for all utilities to offer and provide customers with time-based rates, and for the utility to provide a suitable meter to any customer requesting such rate, or demonstrate why compliance cannot be achieved. Based on the legislative construct of PURPA, however, utilities are not directly required to meet this Standard by EPACT. Instead, the language requires that state public utility commissions and other bodies with jurisdiction over public/municipal and rural electric cooperative utilities conduct an investigation and make a finding as to whether this new Standard is appropriate to be put in place in a particular jurisdiction or at a particular utility. Jurisdictional bodies were given one year to initiate consideration of the Standard, and were expected to complete such within two years.

(Section 1305 p.10 of 84) The framework must be "flexible, uniform and technology neutral, including but not limited to technologies for managing smart grid information." It must be flexible to incorporate "regional and organizational differences" and "technological innovations."
The framework must consider the use of "voluntary uniform standards for certain classes of mass produced electric appliances and equipment for homes and businesses that enable customers… and are manufactured with the ability to respond to electric grid emergencies and demand response signals by curtailing all, or a portion of, the electrical power consumed." Such voluntary standards "should incorporate appropriate manufacturer lead time."

http://www.energy.gov/sites/prod/files/gcprod/documents/Smart_Grid_Communications_Requirements_Report_10-05-2010.pdf

DEPARTMENT OF ENERGY COMMUNICATIONS REQUIREMENTS OF SMART GRID TECHNOLOGIES
October 5, 2010

(p.10)
25 EISA § 1303(b).
26 EISA § 1305(d). EISA directs FERC to initiate rulemakings for adoption of Smart Grid standards when it determines that the standards identified in the NIST framework development efforts have sufficient consensus. **On July 16, 2009, FERC issued a Policy Statement on Smart Grid Policy that acknowledged that EISA does not make any such standards mandatory and gave FERC no new authority to enforce such standards.** Smart Grid Policy Statement, 128 F.E.R.C. ¶61,337, at 61,060–359 (Jul. 16, 2009).
27 "Smart Grid," Federal Energy Regulatory Commission, http://www.ferc.gov/industries/electric/indus-act/smart-grid.asp.
28 *See* EISA § 1305(a).
29 The priority action plan is *available at*: http://www.nist.gov/smartgrid/upload/2-Guidelines_for_Wireless.pdf.

https://www.law.cornell.edu/cfr/text/18/chapter-I/subchapter-A

128 FERC ¶ 61,060
UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION
18 CFR Chapter I
[Docket No. PL09-4-000]
Smart Grid Policy (Issued July 16, 2009)

23. EISA, however, **does not make any standards mandatory and does not give the Commission authority to make or enforce any such standards.**

http://www.electricsense.com/wp-content/uploads/2014/05/Legal-Constitutional-and-Human-Rights-Violations-of-Smart-Grid-and-Smart-Meters1.pdf

**See List of Violations at end of this document

http://www.energy.gov/sites/prod/files/gcprod/documents/Smart_Grid_Communications_Requirements_Report_10-05-2010.pdf

On February 1, 2011, press officer Thomas Welch of the U.S. Department of Energy press officer responded to questions about whether the federal government has made the installation of wireless smart meters mandatory.

He wrote:
No. The Federal government, including DOE, does not have any role in regulating the installation of smart meters, nor does it have a policy about the mandatory adoption of smart meters.
The source of DOE's response can be found in federal documents and legislation relating to the promotion of the smart grid and smart grid technologies, which does not include any federal mandate for wireless smart meter adoption, and does not include any requirement that smart meters (wireless or wired) should be forced upon all consumers.

26 EISA § 1305(d). EISA directs FERC to initiate rulemakings for adoption of Smart Grid standards when it determines that the standards identified in the NIST framework development efforts have sufficient consensus. On July 16, 2009, FERC issued a Policy Statement on Smart Grid Policy that acknowledged that **EISA does not make any such standards mandatory and gave FERC no new authority to enforce such standards.** Smart Grid Policy Statement, 128 F.E.R.C. ¶61,337, at 61,060–359 (Jul. 16, 2009).
27 "Smart Grid," Federal Energy Regulatory Commission, http://www.ferc.gov/industries/electric/indus-act/smart-grid.asp.

http://www.southshorepcservices.com/McNabb%20-%20BH-WP-%20Vulnerabilities%20of%20Wireless%20Water%20Meter%20Networks.pdf

Vulnerabilities of Wireless Water Meter Networks

VIII. CONCLUSION

Water utilities have a number of well-known and documented cyber security vulnerabilities, both in their control systems and in their newer wireless water meter sensor networks. It is vital for the health of the nation's 150,000 water utilities and the 250 million people whom they serve that these vulnerabilities be addressed forthrightly and are resolved.

https://skyvisionsolutions.files.wordpress.com/2013/07/privacy-impacts-for-smart-grid.pdf

Potential Privacy Impacts for Smart Grid Information Disclosure and Misuse

Identity Theft, Identity Theft, Determine Specific Appliances Used, Perform Real-Time Surveillance, Reveal Activities Through Residual Data, Targeted Home Invasions (latch key children, elderly, etc.), Provide Accidental Invasions, Activity Censorship, Decisions and Actions Based Upon Inaccurate Data, Profiling, Unwanted Publicity and Embarrassment, Tracking Behavior of Renters/Leasers, Behavior Tracking (Possible Combination with Personal Behavior Patterns), Public Aggregated Searches Revealing Individual Behavior

Research proving Health Damage caused by Smart Meters

https://www.youtube.com/watch?v=y4JDEspdx58

Research: Blood Cells Destroyed when Exposed to Smart Meter Radiation

https://www.youtube.com/watch?v=E_WJ_aJPWIA

Research: Brain Cells Destroyed when Exposed to EMF

http://emfsafetynetwork.org/wp-content/uploads/2009/11/RF-Microwave-Radiation-Biological-Effects.pdf

RADIOFREQUENCYIMICROWAVE RADIATION BIOLOGICAL EFFECTS AND SAFETY STANDARDS: A REVIEW

V. CONCLUSION

Exposure to RF/MW radiation is known to have a biological effect on living organisms. Research conducted over the past 30 years has provided a basis for understanding the effect of irradiation of biological materials. Experimental evidence has shown that exposure to low intensity radiation can have a profound effect on biological. The nonthermal effects of RF/MW radiation exposure are becoming important measures of biological interaction with EM fields. Modem RF/MW radiation protection guides have sought to account for the effects of low level radiation exposure. Adherence to the ANSI Standard [9] should provide protection against harmful thermal effects and help to minimize the interaction of EM fields with the biological processes of the human body [9]. It is essentially the absorption of RF/MW energy that causes stress and trauma to biolgical systems. The greatest amount of energy will be absorbed when the incident radiation is emitted at the resonance frequency of biological material [9], [22]. In this regard, RF/MW radiation emitted at nonresonant frequencies should be absorbed to the **greatest** extent when the radiating mode is a pulsed signal. The generation of such signals creates transient responses that will match the resonant frequencies of biological materials. Nonresonant at pulsed RF/MW radiation may be more harmful to living organisms than CW radiation emitted at nonresonant frequencies.

http://www.bioinitiative.org/report/wp-content/uploads/pdfs/section_1_table_1_2012.pdf

BIOINITIATIVE 2012 - CONCLUSIONS Table 1-1

(Genetics and Neurological Effects Updated March 2014)

Bioeffects are clearly established and occur at very low levels of exposure to electromagnetic fields and radiofrequency radiation. Bioeffects can occur in the first few minutes at levels associated with cell and cordless phone use. Bioeffects can also occur from just minutes of exposure to mobile phone masts (cell towers), WI-FI, and wireless utility 'smart' meters that produce whole-body exposure. Chronic base station level exposures can result in illness.

(See Full Report Here: http://www.bioinitiative.org/table-of-contents/)

http://emfsafetynetwork.org/wp-content/uploads/2012/06/Reference-List-for-Wireless-Health-Impacts.pdf

REFERENCES RELEVANT TO WIRELESS HEALTH IMPACTS

http://thermoguy.com/wp-content/uploads/5-DECLARATION_OF_DR._DAVID_O._CARPENTER-_M.D.-Final-Draft.pdf

Declaration of Dr. David O. Carpenter, M.D.

8. Exposure to EMF has been linked to a variety of adverse health outcomes. The health endpoints that have been reported to be associated with ELF and/or RF include childhood leukemia, adult brain tumors, childhood brain tumors, genotoxic effects (DNA damage and micronucleation), neurological effects and neurodegenerative disease (like ALS and Alzheimer's), immune system disregulation, allergic and inflammatory responses, breast cancer in men and women, miscarriage and some cardiovascular effects. The strongest evidence for adverse health effects of EMFs comes from associations observed in human populations with two forms of cancer: childhood leukemia and chronic lymphocytic leukemia in occupationally exposed adults.

There is a major difference between an exposure that an individual chooses to accept and one that is forced on an individual who can do nothing about it, especially a child.

http://thermoguy.com/wp-content/uploads/Declaration-of-Dr.-Magda-Havas.pdf

Declaration of Dr. Magda Havas, B.Sc., Ph.D.

12. Established adverse biological outcomes of RF and MW radiation exposure (power density) levels below the FCC guidelines include, without limitation, the increased permeability of the blood brain barrier, nerve damage, alterations in calcium efflux kinetics, increased DNA breakage, induced stress proteins, decreased immune-protection markers, and–at the whole-body level–cognitive and sleep impairments, headaches, dizziness, weakness, tinnitus, cardiac irregularities, hormonal and reproductive aberrations, skin dermatitis, reproductive problems, cancer and more.

http://aaemonline.org/emfpositionstatement.pdf

American Academy of Environmental Medicine
Electromagnetic and Radiofrequency Fields Effect on Human Health

Because of the well documented studies showing adverse effects on health and the not fully understood quantum field effect, AAEM calls for exercising precaution with regard to EMF, RF and general frequency exposure. In an era when all society

relies on the benefits of electronics, we must find ideas and technologies that do not disturb bodily function. It is clear that the human body uses electricity from the chemical bond to the nerve impulse and obviously this orderly sequence can be disturbed by an individual-specific electromagnetic frequency environment. Neighbors and whole communities are already exercising precaution, demanding abstention from wireless in their homes and businesses.

http://stopsmartmeters.org.uk/wp-content/uploads/2014/11/ki_beesbirdsandmankind_print.pdf

BEES, BIRDS AND MANKIND
Destroying Nature by 'Electrosmog'
Effects of Wireless Communication Technologies

Summary
For many decades, research results showing that the natural electrical and magnetic fields and their variation are a vital precondition for the orientation and navigation of a whole range of animals, have been freely available. What has also been known to science for many decades is that we as humans depend on this natural environment for many of our vital functions.

Today, however, this natural information and functional system of humans, animals and plants has been superimposed by an unprecedented dense and energetic mesh of artificial magnetic, electrical and electromagnetic fields, generated by numerous mobile radio and wireless communication technologies. The consequences of this development have also been predicted by the critics for many decades and can now no longer be ignored. Bees and other insects disappear, birds avoid certain areas and are disoriented in other locations. Humans suffer from functional disorders and diseases. And those that are hereditary are passed on to the next generation as existing defects.

http://sagereports.com/smart-meter-rf/docs/Smart-Meter_Report.B-Tables.pdf

Assessment of Radiofrequency Microwave Radiation Emissions from Smart Meters

Conclusion
Neither the FCC, the CPUC, the utility nor the consumer know what portion of the allowable public safety limit is already being used up or pre-empted by RF from other sources already present in the particular location a smart meter may be installed and operated. Consumers, for whatever personal reason, choice or necessity who have already eliminated all possible wireless exposures from their property and lives, may now face excessively high RF exposures in their homes from smart meters. This may force limitations on use of their otherwise occupied space, depending on how the meter is located, building materials in the structure, and how it is furnished.

People who are afforded special protection under the federal Americans with Disabilities Act are not sufficiently acknowledged nor protected. People who have medical and/or metal implants or other conditions rendering them vulnerable to health risks at lower levels than FCC RF limits may be particularly at risk (Tables 30-31). This is also likely to hold true for other subgroups, like children and people who are ill or taking medications, or are elderly, for they have different reactions to pulsed RF. Childrens' tissues absorb RF differently and can absorb more RF than adults (Christ et al, 2010; Wiart et al, 2008). The elderly and those on some medications respond more acutely to some RF exposures.

Smart Meter Health Effects Survey: Results, Analysis and Report
This survey was designed to discover if the health effects/symptoms that many persons have been attributing to smart meter exposures were really caused by those exposures or not. The survey essentially collected testimonials of personal experiences with smart meters, broken down into answers to approximately 50 questions, most of them multiple-choice. Since all questions required an answer, all respondents answered identical questions via a choice of identical answers. This provided uniformity of the data collected, enabling detailed analysis and comparison of their experiences.

http://www.wirelesswatchblog.org/wp-content/uploads/2001/11/22-Second-Amended-Declaration-of-Curtis-Bennett.pdf

Declaration of Curtis Bennett

(World's foremost authority on applying infrared technologies at molecular levels. Canadian Interprovincial Journeyman Electrician (Red Seal) with a theoretical and practical background in electromagnetic field designing. Completed an education in engineering, magnetic fields, heat transfer, and electron flow specifically to compliment my extensive background with a technology that allows us to see temperature beyond our visible spectrum.)

15. Within the relevant scientific community it is generally accepted many bioeffects and adverse health effects occur as a result of low-level RF/MW radiation exposure, with unrealized domino-effect costs of many kinds, some of which all people will suffer, sooner or later. Specialists also consider the secondary effects to human society of losses of wildlife, essential insects, plants and other environmental damages from ubiquitous and unnatural PM RF/MW radiation.
16. In my opinion as a professional with Canadian national and pro AHM, other students, and school staff and faculty adverse health effects and should be discontinued immediately as this as a national and global emergency.
Dated this 19th day of December, 2011.
/s/ Curtis Bennett CURTIS BENNETT

http://www.mainecoalitiontostopsmartmeters.org/wp-content/uploads/2013/01/Exhibit-10-Smart-Meter-Health-Effects-Report-Survey2.pdf

Smart Meter Health Effects Survey: Results, Analysis and Report

The survey was written by Richard Conrad, Ph.D, and Ed Friedman. It utilizes Survey Gizmo software and automatic survey collection via the internet and Survey Gizmo, who stores the data securely and provides most of the analysis tools used. The survey was distributed via internet sites and interest groups, who directed interested people to this link:
http://www.conradbiologic.com/smartmetersurvey.html for an introduction, more information, and a link to actually take the survey. The invitation began: "If you feel your health has been affected by smart meters, we request your immediate help in studying these effects." Thus this is not a prevalence survey (i.e. its purpose is not to determine the percentage of all ratepayers that had symptoms) but was intended to query persons who already felt that they had "symptoms or health effects from smart meters" (quoted here from the introduction within the survey itself) to determine whether or not there actually was a correlation. Near the end of the survey was a request (Question 46) for free text comments, where many respondents provided a short summary of the impacts smart meters had on their lives. (A list of most of their comments is included in Appendix 6.) The last two questions of the survey concern permission to use their data anonymously (Q47) and with limited confidential disclosure (Q48). Any respondent that answered No to Q47 was automatically disqualified by the Survey Gizmo survey collection software. Thus 100% of the surveys collected and designated as "completed" answered Yes to permission for anonymous use. 90% of these also answered Yes to Q48, limited confidential disclosure (most supplied their personally identifiable information). The Survey opened for data collection on December 4, 2012, and closed at the end of the day on January 28, 2012. The number of completed surveys received and used for analysis was 210. Approximately 75 % of respondents were from the US, and the rest from Canada and Australia. Of the 210 respondents, 9 were Ph.D.'s, 42 MS or MA, 70 BS or BA, 1 MD, 1 DDS (see Q44).
Look at "Pie Chart Summary Report Q2 vs Q32" (Appendix 8). You can clearly see the tremendous increase (more than a doubling) in the blue sector of the pie chart from only 32.9% aware of having some electrical sensitivity before, to 67.6% considering themselves to actually have ES after smart meter exposure.
Before smart meters, 23.3 % (calc. from Q2a) of the 210 respondents considered themselves to 1 have ES (Electrical Sensitivity).

Now, after smart meters, 67.6 % (Q32) of the 210 respondents consider themselves to have ES.

Note that the majority of these (62.7 %, calc. from Q32a) feel certain that their exposure to smart meters was responsible for initiating their ES.

Of the 49 persons who already considered themselves to have ES before SM, all 49 (100 %) felt that their exposure to SM made their ES not only worse, but "much worse".
http://www.electricsense.com/wp-content/uploads/2014/05/Legal-Constitutional-and-Human-Rights-Violations-of-Smart-Grid-and-Smart-Meters1.pdf

Legal, Constitutional and Human Rights Violations
Of Smart Grid and Smart Meters
Congressional White Paper

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48) Government Officials May Be Held Personally Liable for Civil Rights and Other Legal and Constitutional Violations pages 255-257

I am asking that the Kentucky Public Service Commission <u>respond ethically and morally by stopping the abuse of money and power in relationship to these unethical and criminal acts against our freedoms and health.</u>

I am asking that the Kentucky Public Service Commission <u>protect all humans, pets, wildlife, and the environment against the damages caused by the accumulation of these wireless radiation frequencies which will only continue to increase unless responsible, ethical, and morally responsible leaders take action to stop this illegal activity.</u>

Please protect all consumers in Kentucky against the above mentioned <u>by installing only safe analog utility meters and not charging any fees for insisting upon the usage of, and/or returning to the usage of safe analog utility meters.</u>

Please <u>stop all deceptive practices in regards to ignoring the unbiased research and allow the public to be made aware of all the dangers related to wireless utility meters so that they can make "informed" decisions regarding their utility services as well as their health and right to privacy.</u>

Sincerely,

Cheryl A. Kennedy

Name: CHERYL A. KENNEDY

Address, City, State: 6019 OAKWOOD AVE, CINCINNATI, OH 45224-2333

County: HAMILTON

Date: 2-6-17

Please Post a Comment

UNIVERSITY AT ALBANY
State University of New York

Institute for Health and the Environment
WHO Collaborating Center in Environmental Health

3 February 2017

Kentucky Public Service Commission
P.O. Box 615
211 Sower Boulevard
Frankfort, Kentucky 40602-0615

Re: Case files 2012-00428, 2016-00370, 2016-00187, 2016-00152 and all other Utility Company Case Files regarding Wireless Utility Meters (ie., AMI, AMR, AMS, ERT, Wireless, Smart Meters, etc.)

Dear Kentucky Public Service Commission, All Electric, Gas and Water Utility Companies, President, Agents, Officers, Employees, Contractors and Interested Parties:

We, the undersigned, are scientists and health professionals who together have co-authored many peer-reviewed studies on the health effects of radiofrequency radiation (RFR). We are aware that the Kentucky Public Service Commission is considering a proposed smart meter opt-out fee from Duke Energy. Smart meters, along with other wireless devices, have created significant public health problems caused by the radiofrequency radiation (RFR) they produce, and awareness and reported problems continue to grow. With Duke Energy being America's largest utility provider and, consequently, having the largest potential smart meter implementation reach, it is imperative that the Kentucky Public Service Commission be fully aware of the harm that RFR can cause and allow utility customers to opt out of smart meter installation with no penalty.

The majority of the scientific literature related to RFR stems from cell phone studies. There is strong evidence that people who use a cell phone held directly to their ear for more than ten years are at significantly increased risk of developing gliomas of the brain and acoustic neuromas of the auditory nerve. There is also evidence that the risk of developing these cancers is greater in younger than older people. The May 2016 report from the US National Toxicology Program showing that rats exposed to cell phone radiation for nine hours per day over their life-span develop gliomas of the brain and Schwannoma of the heart (the same kind of cancer as acoustic neuroma) adds proof to the conclusions from the human health studies that radiofrequency radiation increases risk of cancer.

East Campus, 5 University Place, Room A217, Rensselaer, NY 12144-3429
PH: 518-525-2660 FX: 518-525-2665
www.albany.edu/ihe

Smart meters and cell phones occupy similar frequency bands of the electromagnetic spectrum, meaning that cell phone research directly applies to smart meter RFR. Smart meter RFR consists of frequent, very intense but very brief pulses throughout the day. Because smart meter exposure over a 24 hour period can be very prolonged (pulses can average 9,600 times a day), and because there is building evidence that the sharp, high intensity pulses are particularly harmful, the cell phone study findings are applicable when discussing adverse health impacts from smart meters.

While the strongest evidence for hazards coming from RFR is for cancer, there is a growing body of evidence that some people develop a condition called electro-hypersensitivity (EHS). These individuals respond to being in the presence of RFR with a variety of symptoms, including headache, fatigue, memory loss, ringing in the ears, "brain fog" and burning, tingling and itchy skin. Some reports indicate that up to three percent of the population may develop these symptoms, and that exposure to smart meters is a trigger for development of EHS.

In short:

- Smart meters operate with much more frequent pulses than do cell phones, increasing the potential for adverse health impacts.
- Smart meter pulses can average 9,600 times a day, and up to 190,000 signals a day. Cell phones only pulse when they are on.
- Cell phone RFR is concentrated, affecting the head or the area where the phone stored, whereas smart meter RFR affects the entire body.
- An individual can choose whether or not to use a cell phone and for what period of time. When smart meters are placed on a home the occupants have no option but to be continuously exposed to RFR.

The Public Service Commission should not be relying on industry representatives for assistance, due to their obvious conflict of interest. Too often they rely on biased research and hold opinions that are not consistent with medical evidence. The symptoms and illnesses experienced from wireless utility meters are related to length and accumulation of exposure and therefore not everyone will exhibit symptoms immediately. In addition, as with many other diseases, not everyone is equally susceptible. There are a number of double-blind studies which clearly show that some people with EHS will develop symptoms when exposure to RFR is studied in a double blinded experimental protocol, in which the subject do not know whether or not the RFR is being applied. These individual are not suffering from a psychosomatic disease, but rather one that is induced by the exposure to RFR. Public health agencies that label these symptoms as being only psychosomatic are ignoring this evidence and are not working to ensure fair treatment of and protection of the public.

The adverse health impacts of low intensity RFR are real, significant and for some people debilitating. We want to stress three fundamentals as your agency proceeds to consider a smart meter opt-out:

- The Federal Communication Commission's safety standards do not apply to low intensity RFR.
- There is no safe level of exposure established for RFR.
- People around the world are suffering from low intensity RFR exposure, being at increased risk of developing both cancer and EHS.

Citizens rely on their government agencies for protection from harm. Accordingly, we urge the Kentucky Public Service Commission to reject any fees or tariffs associated with smart meter opt-out and allow citizens to opt out without penalty.

Thank you for your attention and consideration. What you do in this instance affects the lives of many in Kentucky and beyond.

Yours sincerely,

David O. Carpenter, M.D.
Director, Institute for Health and the Environment
University at Albany
Rensselaer, NY 12144

Dr. Lennart Hardell, MD, PhD
Professor
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