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2019 JUL 22 AM 10:20

John Chenosky

To: jeffwatson@pa.gov
Cc: rchiavetta@pa.gov
Subject: Docket No. C-2019-3007622

PA PUC
SECRETARY'S BUREAU

Your Honor:

This email was suggested by Dan in your office, because questions that I posed to him about your instructions and my understanding of the chronology of events about the subject docket, he was unable to answer. The following comments are not meant to be disrespectful, but what I perceive as impediments to a Pro Se Complainant. As a Permanently Disabled, Anomic & Expressive individual I have difficulty with language, both vocal and written, and struggle with rapid comprehension and spontaneity. As a result of three strokes I essentially have no filters. Not looking for any sympathy, just providing an understanding the my limitations.

What started out as an Informal Complaint resulted in an anemic, condescending 4 page Xerox copy of a propaganda brochure as my PA PUC "answer." That initiated a Formal Complaint against Metropolitan Edison when it fact it should have included the PA PUC and a formal PA House Chairman.

I prevailed against the Defendant's Preliminary Objections, with a ruling that did not provide any direction to me as the Complainant, with respect to further process. As a Pro Se Complainant it was never my intent to become familiar with the legal process of the PA PUC, become an amateur lawyer, or get involved with an excessive proceeding. And never was I never formally advised about any process, and trying to negotiate the PA PUC's website requires a seminar on it operations—it is not user friendly as my Net experience goes back to 1992.

Notwithstanding your instructions regarding law reference requirements and the extent of the repetitive legal regurgitation from the Defendant, attempting to read, understand and comply with those statutes and answer the Interrogatories to your deadline, was for me, an impossibility.

As a consequence my effort to comply does not in any way mean any disrespect, but I question why a Pre-trial Conference suggested by the Defendant in their preliminary objections was never honored.

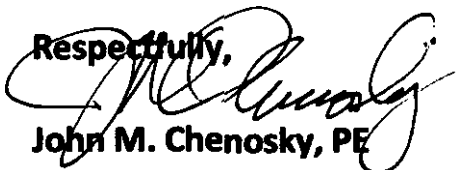
Clearly consumer complaints should be handled by Arbitration, not the Mediation Process in place. Additionally the proposed court schedule in your instructions is an unrealistic effort for this Complainant.

By this email I am requesting a change of venue as both the Defendant and Complainant are Berks County based and my physical abilities limit the extent of my travel.

In spite of my apparent ignorance of process, I believe the "spirit" of compliance is met by the documentation submitted today by First Class Mail and apologize up front for any clerical or spelling/grammatical errors, as time did not permit a thorough review. I trust you can forgive the format as I have no legal training.

Perhaps you can review this situation with the Secretary and consider a Harrisburg Mediation a more realist resolution of this matter.

Respectfully,



**John M. Chenosky, PE
Energy Specialist for 50 years**

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2019 JUL 22 AM 10: 21

**PA PUC
SECRETARY'S BUREAU**

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

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PA. PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

JOHN M. CHENOSKY

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v.

Docket No. C-2019-3007622

METROPOLITAN EDISON COMPANY

OBJECTIONS TO INTERROGATORIES AND OBJECTIONS TO REQUESTS FOR PRODUCTION OF DOCUMENTS OF METROPOLITAN EDISON COMPANY TO JOHN M. CHENOSKY, SET I

The First Set of Interrogatories is a contradiction in terms as it is nothing more than hypothetical, irrelevant speculation on the part of the Defendant. In an email from Lepkoski to Chenosky 30May19 states...." HIPPA laws do not protect you from being directed to produce information related to medical conditions in this proceeding if you are alleging detrimental health effects as a result of Smart Meters."

Since there are no Smart Meters installed on the Complainant's Property how can any allegations about detrimental health effects be concluded. Consequently mine and my wife's medical histories are not subject to scrutiny, are protected by HIPPA laws, and questions regarding same are moot, in violation of law and answer to interrogatories regarding our health issues will not be forthcoming.

Since the tenor of the Defendant's questions constitute legal bullying, Complainant's responses will be short, hostile and does not justify an entire page for individual responses as requested by Defendant's Counsel.

Since insufficient time for rebuttal was not provided as requested, a significant study conducted at the premises of the Complainant by an EMF Professional was not fully evaluated, which would have provided further clarity on many issues.

1. Complainant has reviewed a myriad of Scientific Studies i.e., Government, Institutional and Private and the studies unanimously conclude that an adverse health condition will be the outcome of the installation of a Smart Meter.
2. Since Complainant has not made any claims alleged by the Defendant this is a moot and irrelevant question.
3. The explanation of how the installation of a Smart Meter would impact the Complainant has been thoroughly explained in the initial Formal Complaint and subsequent Answer to New Matter. Obviously Defendant's Counsel has not read, or chooses to ignore previous evidence submitted under this Docket.
4. Repetitive and irrelevant.

5. **Absolutely as will be explained in the Answer To Interrogatories (ATI).**
6. **Will be explained in the ATI.**
7. **Will be explained in the ATI.**
8. **Not a relevant question directly related to a Smart Meter installation.**
9. **Not a relevant question directly related to a Smart Meter installation.**
10. **Not a relevant question directly related to a Smart Meter installation.**
11. **Not a relevant question directly related to a Smart Meter installation.**
12. **Not a relevant question directly related to a Smart Meter installation.**
13. **Again it appears Defendant's Counsel's inability to remember, or refuses to read previous submitted facts in evidence. All these matters were sufficiently detailed in the Formal Complaint and subsequent documents.**
14. **Yes as was intended by HB 2020 until the PAPUC in collusion with Chairman Robert Godshall who had a major conflict of interest and the PAPUC exceeded their authority as previously explained.**
15. **Legal Opinions unanimously conclude A Smart Meter violates the Fourth Amendment of the Constitution and other Privacy Laws.**
16. **Others have demonstrated the potential misuse of information and the US Congress is currently addressing these major issues with AI.**
17. **Insufficient time has been allotted the Complainant but a Summary of Opinion has been provided by the Documentary "Take Back Your Power". Other examples will be referenced in this process.**
18. **The Defendant has given verbal information to Complainant's spouse that no Smart Meters have been installed. A digital readout meter is installed at our pole barn that (is) or resembles a Smart Meter.**
19. **Numerous instances of Smart Meter operation have been provided and will be supplemented by the ATI. Significant quality and performance issues will be provided in ATI.**
20. **This is interesting--- Counsel actually did read the documents provide but has a selective recall of the information. Since insufficient time was provided as requested, paragraph four above may provide some information.**
21. **All issues to be raised have been documented. Defendant has already demonstrated bullying threats and intimidation of terminating service and never responded to Complainant's**

factual evidence. The Industry, by the Denial of Published Factual Information is guilty of "Acquiescence by Silence". Until such time as Defendant, a public company addresses the lack transparencies by their continued silence about factual evidence of privacy violations and safety, Complainant is under no obligation to address the legal bullying of Counsel.

22. 4th Amendment, Title 18, Privacy & Security, USC Section 2511, 2512, 2518, Electronic Communications Act. www.fcc.gov Unauthorized radio transmitter and steals electricity in Switching Mode from Complainant while an unauthorized, illegal, data forms a personal Dossier, which Defendant accumulates and then they think they can sell this information. And reportedly, Defendant will make more money than the electricity they sell. It certainly makes a case for providing the electricity free of charge.

23. Already provided by the Fourth Amendment of the Constitution. Additionally the MAJOR FIRE POTENTIAL and reportedly over 200,000 meters in the USA and Canada have been involved in damaging FIRE & EXPLOSION. The details of how this occurs will be provided in the ATI and further submissions. Title 18 USC, Section 1365—"Tampering With Consumer Products Cause Danger of Death or Bodily Injury." Industry avoids revealing latent product defects of "Smart" Meters, Defendant installs these defective devices and exposes the Complainant to potential significant premise's damage, or death by fire and/or explosion.

24. Insufficient time provided to develop a witness list but it may include the following officials: the Governor, PA PUC Secretary, all PAPUC Board Members, all Senate and House Consumer Affairs members, Robert Godshall , Grey Godshall, Safety Engineer for PECO, CEO and CIO of First Energy for starters.

Engineers and Biological Scientists-- will include those that provided technical facts outlined in the complaint.

Additionally, Nationwide Fire Chiefs and Union Electricians will be polled as potential witnesses to the stated fire and explosive hazards.

25. More than likely. Insufficient time provided to address the context of the expertise they would provide.

26: Educational background has been from the time Complainant's Mother taught him to read at age three to the present, encompassing a lifetime of learning (76 years and counting) resulting in a virtual encyclopedia of scientific, engineering, design, environmental consulting, construction, legal and street smart phycology. This lifetime of information would require a truckload of unrealistic documentation to substantiate but it includes 21 years of formal education.

27. My formal work career ended in September 1992 when after 15 years in the business of Professional Engineering and Consulting, a massive left parietal infarct permanently disabled my communications center. After advice from National Society of Professional Engineers Legal Staff that I no longer engage in pay for services, I was declared permanently disabled by a Social Security Judge and have spent the last 27 years in varying degrees of health and rehabilitation. Prior to my business I spent 1962-1977 employed in technical fields where I was in responsible charge of plant facilities engineering and construction projects for major S&P companies.

28. Repetitive request as was previously furnished and is also supplemented in the ATI.

- 29. Again a repetitive request and protected under the prior HIPPA umbrella.**
- 30. Repetitive as those sources were sighted in the original Formal Complaint and the “Answer& Objection To New Matter and Preliminary Objection Of Metropolitan Edison” but are supplemented in the ATI as some, but not all because of timing restraints.**
- 31. Answered.**
- 32. Answered.**
- 33. Irrelevant and violation of 4th Amendment Privacy Rights.**
- 34-39 Additional legal regurgitation or bullying of irrelevant, repeatedly asked and answered questions provided in all previously sighted documentation.**

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

JUL 22 2019

JOHN M. CHENOSKY

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

v.

Docket No. C-2019-3007622

METROPOLITAN EDISON COMPANY

ANSWER TO SET I INTERROGATORIES AND PRODUCTION OF DOCUMENTS TO METROPOLITAN
EDISON COMPANY FROM JOHN M. CHENOSKY

The following constitutes an attempt to educate all parties in the negative impacts of Smart Meters (SMs), i.e., not "safe" as the Industry/Utility/Government collectively suggests. SMs were illegally OPTed-IN in direct conflict with HB 2020 which was OPTed-OUT legislation and morphed into Act 129 by collusion between Rep. Robert Godshall and the PAPUC. This was previously explained in the original complaint and referenced in Frompovich v. PECO, where PECO took the position the only views which "count" are its own expert witness testimony, and after discounting the contrary evidence, it denies that any such evidence even exists, Cf. PECO Brief Pg. 13 (89).

When Pennsylvania Professional Engineers evaluate systems and equipment they are legally obligated to place public safety above all else. Unfortunately many engineers that work in Industry/Utilities work under the *Industry Exemption*. Alleged advertised "*rigorous testing*" in many cases—to self-imposed undefined specifications—conducted by these individuals under the supervision of non-technical managers often leads to what we ethical Professional Engineers call *Latent Design and Manufacturing Defects*. That said; let's examine Smart Meters under our professional microscope to see how the Industry/Utilities fare.

1. Let's start with the SMs themselves from an electrical stability standpoint. The following are some of the causes of Smart Meter FIRES & EXPLOSIONS:

- a. SMs are only rated at 48KW (200 amps). The warranty is null and void if the current exceeds 201 amps.
- b. SMs have Lithium which overheats in direct Sun exposure.
- c. SMs do not have surge protection anymore. This is probably why Defendant is currently promoting the installation and the additional monthly expense of a surge protector not normally incorporated in residential installations. This is being offered by correspondence with its ratepayers.
- d. New SMs do not have over voltage grounding lugs, a problem, since Electric Transients are an issue with SMs.
- e. SMs bases are made of flammable plastic, in lieu of metal, or Bakelite as used in the previously sound, electro-mechanical meters.

- f. SWs are made of a cheap flammable poly-carbonate cover.**
- g. SWs have leaky seals and therefore, are not waterproof. They allow moisture inside resulting in destructive shorting.**
- h. SWs have thinner power lugs which do not allow for proper tension.**
- i. Warrantee is null and void if the internal temperature of the SM exceeds 80 deg. C.**
- j. Customer's meter base is rarely inspected by a qualified, certified Electrical Inspector in order to eliminate installation, or future operational problems.**
- k. Experience has shown that HOT CUTS done by Non-Certified individuals have negative consequences. It should be noted that the Defendant sub-contracted this important work to others. They never provided certifications of installers to the ratepayers. Guess who would pay if there were catastrophic problems?**
- l. Lithium dissociates water, H₂O, into hydrogen and oxygen when, and if in the presence of air the lower, or upper explosive limit of hydrogen is exceeded, the result has devastating consequences. Case in point-- TESLA fires/explosions.**
- m. SMs are not UL/CSA approved. A new VOLUNTARY CODE, UL 2735 has not been implemented.**
- n. There are issues with the Remote Disconnect in SMs as hackers can initiate tripping connections, a major security issue according to former NSA employees.**
- o. SMs have flammable internal electronic components in the form of a surveillance device (data collector), a processor, a transmitter, a switch mode power supply, etc. In this Professional Engineer's opinion these devices DO NOT BELONG inside a device subjected to 20,000 volt surges.**
- p. Since Complainant's Residence is located near a substation (Benfield Rd.), surges which are common, will result in voltages in excess of the rated 20,000V, (maximum of SMs) and will blow the SM off the meter pan and that is why I refuse to allow a SM installation. My current electro-mechanical meter seems to handle these Voltage Surges because of its positive grounding. If it ain't broke-don't replace it.**
- q. With its high powered radio transmitter penetrating the walls of your house with WEAPONIZED PULSED RADIO FREQUENCIES the SM is causing transients, i.e.,**
- r. DIRTY ELECTRICITY throughout your residence, broadcasting constantly from all of your house wiring throughout your home. And in fact your house becomes a large antenna, or ultimately a 5G mini-Tower.**
- s. In testimony the CIO of First Energy, when asked what the anticipated lifespan of SMs, stated 5-7 years. In 57 years of home ownership in seven (7) homes I never replaced an**

electro-mechanic meter. Replacement cost is anticipated at \$6-700-- of course at the home owner's expense.

- t. None of the fire/explosion hazards have been explained to the Ratepayers in anticipation of the change-over.**
- u. Defendant has never answered any of questions posed by the Complainant about the above cited deficiencies, nor issues raised in prior documentation.**
- v. Defendant never confirmed whether the Reading, PA Office Chief Engineer was a Professional Engineer Licensed in Pennsylvania, or provided his CV, or Smart Meter experience or, involvement in this Smart Meter implementation.**
- w. Complainant's existing meter pan is located in an alcove under a winter entry way and is subjected to heat discharge from an AC compressor condensing unit—in Summer conditions this space routinely experiences temperature 20 deg. F above ambient temperatures—recipe for SM failure.**
- x. Complainant's property has an inconsistent cell phone signal and makes it unreliable for normal service. Hard wire service is the reliable available phone.**
- y. More to follow as this onion is peeled back.**

POLLUTION COLLUSION:

It was not until December of 2018 that Complainant was advised that he had no choice and this Smart Meter was being shoved down his throat. This despite the fact that the original HB 2020 was an OPT-OUT legislation. From the Complainant's perspective it seems that the PAPUC, Robert Godshall and all the Utility Players, made a concerted effort to keep the public in the dark about this implementation. Was this because corporate profits were more important than the public's health and safety?

Defendant over the time frame of this charade (5 years or more) never notified the Complainant about this implementation, although he was inundated with offers from exterior line maintenance insurance, to on property tree pruning and felling, electrical services, HVAC filter offers, exterior lighting, CF bulbs, to make me question if Defendant was trying to compete with AMAZON instead of being in the business of power generation and distribution with its attendant Customer Service. The latter has been disappointingly marginal since First Energy took over GPU.

Having been an extreme sponge with respect to continuing education, I became a Charter Member of Principia Scientific(PS) and its scientific blog as a result of my Activist Skeptical Position of the other Scientific Fraud of the Century—Catastrophic Anthropogenic Global Warming.

A petition article on PS signed by 26,000 scientists opposed to 5G and RF/EMF radiation caught my attention and became somewhat intrigued by the body of work which for all intents and purposes I

was unfamiliar with. But physics is physics and universal in understanding by all competent engineers. Electricity and magnetism is explained by physics so Complainant's interest developed.

Perhaps one might be confused as to why 5G is being introduced by the Complainant at this point--well the Smart Meters will not be as effective without the 5G "Blanket" necessary for data transmission.

Everything any critical thinker can deduce about the Internet-of-Things (IoT) is available in this document including the undesirability of "Smart" Meters.

What is truly disturbing--if the telecommunications industry's plans come to fruition, no person, no animal, no bird, no insect, and no plant will be able to avoid exposure, 24 hours a day, 365 days a year, to levels of RF radiation that are tens to hundreds of times greater than what exists today, without any possibility of escape anywhere on the planet. These 5G plans threaten to provoke serious, irreversible damage to all of the Earth's Ecosystems.

The timing of this article was fortuitous as I started to prepare my initial Formal Complaint as a direct result of a non-response of my Informal Complaint by the PAPUC, and their condescending, patronizing manner. What this article provided were links to a panoply RF/EMF health related causes, the most current was the 2012 Bio-Initiative Report and the resulting 2000 or more studies it is based upon.

Seven pages of the article, "**Petition: 26,000 Scientists Oppose 5G Roll Out,**" addresses significant political issues which are above my pay grade and speculates about significant health issues. Those pages are introduced as ATI Exhibit 1-a-g.

The numerous health studies' (1800) further introduced in the "**Bioinitiative Report**" with two(2) page introductory summary and six(6) page "**Reported Biological Effects from Radiofrequency Radiation at Low-Intensity Exposure**", (Cell Tower, WI-Fi, Wireless Laptop and "**Smart**" Meter RF Intensities), are identified as ATI Exhibit 2-a-h.

During the involvement in this Formal Complaint process Complainant encouraged the Legislators to reintroduce HB1566 which was stonewalled by Robert Godshall adamantly refused to call out the bills for a vote becoming sine die for four years. One of Complainant's email's "**Pollution Collusion-Biological Effects EMF From Smart Meters**", dated April 11, 2019 is identified as ATI Exhibit 3-a-b.

During the month of June Complainant's residence was surveyed for RF/EMF/ELF and what turned out to be significant revelation in terms of issues around electronic devices, turned out to be a surprise in the amount of **DIRTY ELECTRICITY** from items that the Defendant sells and encourages the use of, e.g., Compact Fluorescent Bulbs, (CFBs). It is apparent that transient voltages have as much health risk as RF/EMF and there are recommended measures that we are taking to resolve these health risks.

Had there been sufficient time provided the Complainant, aspects of the report could have been presented that further reinforce the position that a "Smart Meter" will be a force multiplier when it

comes to the potential health impacts to the residents at Complainant's property. It was demonstrated that with considerable expense devices can be purchased and installed to eliminate/minimize the Dirty Electricity that is common in everyone's residence.

CONCLUSION:

Considering that many of the scientific concepts presented are beyond the comprehension of the general population, policy makers and government agencies, how those in position of authority accept studies and reports from Utilities and their manufacturers which have a conflict of interest, without corroborating evidence from Independent Scientists & Engineers, or who provide opposing reviews and peer reviewed scientific and medical studies.

So based upon the overwhelming preponderance of the evidence the implementation of the installation of "Smart" Meters in Pennsylvania is an unlawful exercise and presents a significant health risk to Complainant, as well as, an unnecessary threat to his property due to latent design and construction of "Smart Meters and their propensity to explode and catch fire with devastating consequences.

Respectfully Submitted,

**John M. Chenosky, PE
Energy Specialist for 50 years**

ATI EXHIBIT 1-a



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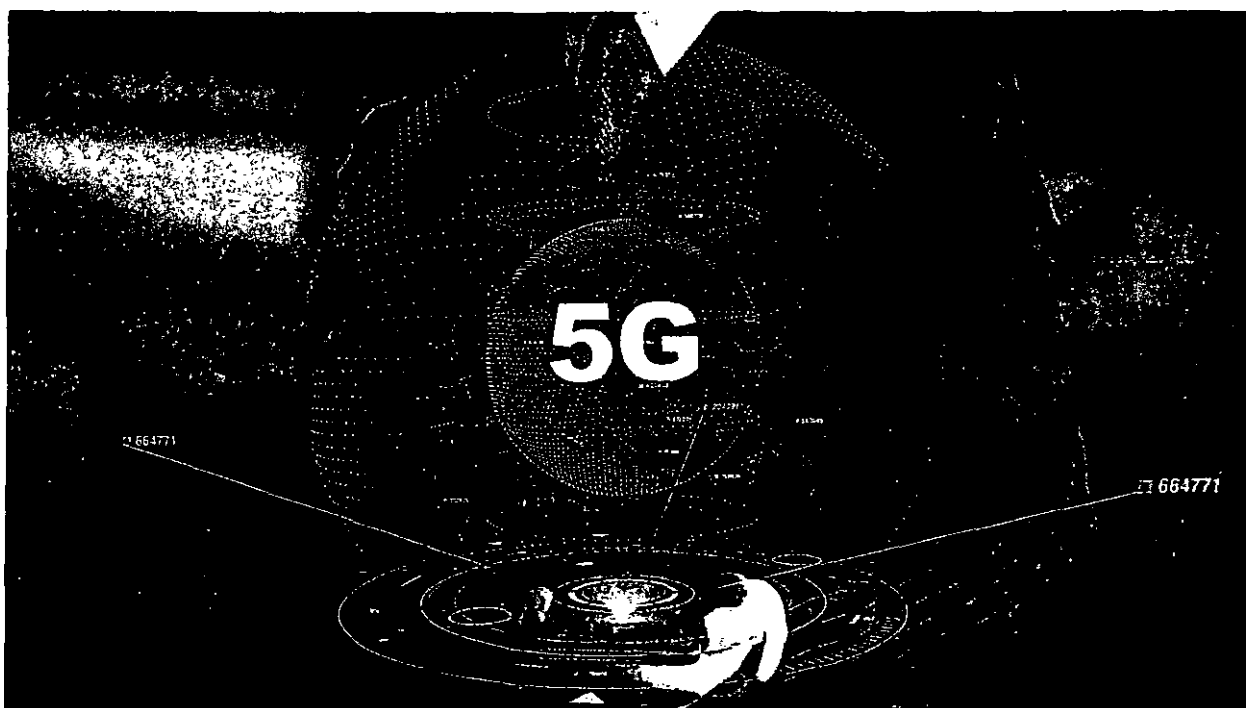
JUL 22 2019

Home > Current News > Petition: 26,000 Scientists Oppose 5G Roll Out PA PUBLIC UTILITY COMMISSION SECRETARY'S BUREAU

Petition: 26,000 Scientists Oppose 5G Roll Out

Published on January 29, 2019

Written by Arthur Firstenberg



Concerns about the upcoming launch of 5G radio telecommunications technology has prompted a mass petition against the move on safety grounds by thousands of scientists and related professionals.

Arthur Firstenberg writes:

Wireless Radiation: Stop The 5G Network On Earth And In Space, Devastating Impacts On Health And The Environment

ATI EXHIBIT 1-b

To the UN, WHO, EU, Council of Europe and governments of all nations

We the undersigned scientists, doctors, environmental organizations and citizens from () countries, urgently call for a halt to the deployment of the 5G (fifth generation) wireless network, including 5G from space satellites. 5G will massively increase exposure to radio frequency (RF) radiation on top of the 2G, 3G and 4G networks for telecommunications already in place. RF radiation has been proven harmful for humans and the environment. The deployment of 5G constitutes an experiment on humanity and the environment that is defined as a crime under international law.

Executive summary

Telecommunications companies worldwide, with the support of governments, are poised within the next two years to roll out the fifth-generation wireless network (5G). This is set to deliver what is acknowledged to be unprecedented societal change on a global scale. We will have "smart" homes, "smart" businesses, "smart" highways, "smart" cities and self-driving cars. Virtually everything we own and buy, from refrigerators and washing machines to milk cartons, hairbrushes and infants' diapers, will contain antennas and microchips and will be connected wirelessly to the Internet. Every person on Earth will have instant access to super-high-speed, low-latency wireless communications from any point on the planet, even in rainforests, mid-ocean and the Antarctic.

What is not widely acknowledged is that this will also result in unprecedented environmental change on a global scale. The planned density of radio frequency transmitters is impossible to envisage. In addition to millions of new 5G base stations on Earth and 20,000 new satellites in space, 200 billion transmitting objects, according to estimates, will be part of the Internet of Things by 2020, and one trillion objects a few years later. Commercial 5G at lower frequencies and slower speeds was deployed in Qatar, Finland and Estonia in mid-2018. The rollout of 5G at extremely high (millimetre wave) frequencies is planned to begin at the end of 2018.

Despite widespread denial, the evidence that radio frequency (RF) radiation is harmful to life is already overwhelming. The accumulated clinical evidence of sick and injured human beings, experimental evidence of damage to DNA, cells and organ systems in a wide variety of plants and animals, and epidemiological evidence that the major diseases of modern civilization—cancer, heart disease and diabetes—are in large part caused by electromagnetic pollution, forms a literature base of well over 10,000 peer-reviewed studies.

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JUL 22 2019

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

3/6/2019

ATT. EXHIBIT 1-b*To the UN, WHO, EU, Council of Europe and governments of all nations*

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SECRETARY'S BUREAU

3/6/2019

ATI EXHIBIT 1-C

If the telecommunications industry's plans for 5G come to fruition, no person, no animal, no bird, no insect and no plant on Earth will be able to avoid exposure, 24 hours a day, 365 days a year, to levels of RF radiation that are tens to hundreds of times greater than what exists today, without any possibility of escape anywhere on the planet. These 5G plans threaten to provoke serious, irreversible effects on humans and permanent damage to all of the Earth's ecosystems.

Immediate measures must be taken to protect humanity and the environment, in accordance with ethical imperatives and international agreements.

5G will result in a massive increase in inescapable, involuntary exposure to wireless radiation

Ground-based 5G

In order to transmit the enormous amounts of data required for the Internet of Things (IoT), 5G technology, when fully deployed, will use millimetre waves, which are poorly transmitted through solid material. This will require every carrier to install base stations every 100 metres^[1] in every urban area in the world. Unlike previous generations of wireless technology, in which a single antenna broadcasts over a wide area, 5G base stations and 5G devices will have multiple antennas arranged in "phased arrays"^{[2][3]} that work together to emit focused, steerable, laser-like beams that track each other.

Each 5G phone will contain dozens of tiny antennas, all working together to track and aim a narrowly focused beam at the nearest cell tower. The US Federal Communications Commission (FCC) has adopted rules^[4] permitting the effective power of those beams to be as much as 20 watts, ten times more powerful than the levels permitted for current phones.

Each 5G base station will contain hundreds or thousands of antennas aiming multiple laser-like beams simultaneously at all cell phones and user devices in its service area. This technology is called "multiple input multiple output" or MIMO. FCC rules permit the effective radiated power of a 5G base station's beams to be as much as 30,000 watts per 100 MHz of spectrum,^[2] or equivalently 300,000 watts per GHz of spectrum, tens to hundreds of times more powerful than the levels permitted for current base stations.

*Space-based 5G***RECEIVED**

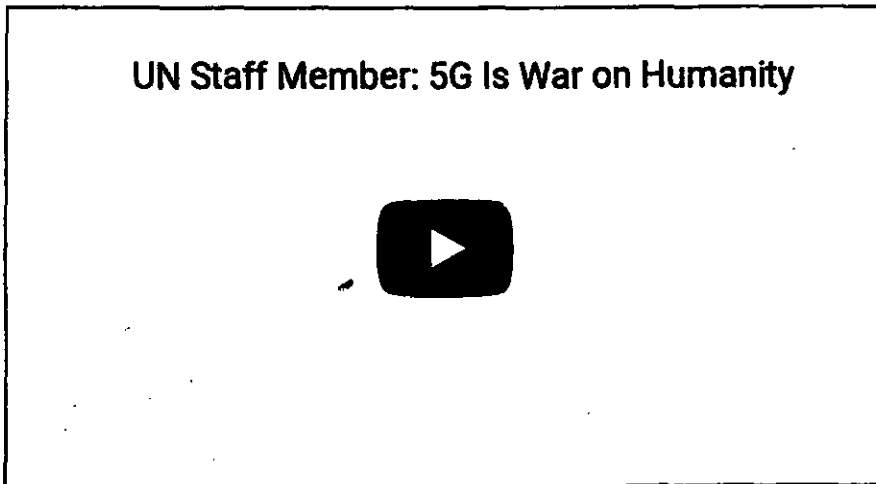
JUL 22 2019

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ATI EXHIBIT 1-d

At least five companies^[5] are proposing to provide 5G from space from a combined 20,000 satellites in low- and medium-Earth orbit that will blanket the Earth with powerful, focused, steerable beams. Each satellite will emit millimetre waves with an effective radiated power of up to 5 million watts^[6] from thousands of antennas arranged in a phased array. Although the energy reaching the ground from satellites will be less than that from ground-based antennas, it will irradiate areas of the Earth not reached by other transmitters and will be additional to ground-based 5G transmissions from billions of IoT objects. Even more importantly, the satellites will be located in the Earth's magnetosphere, which exerts a significant influence over the electrical properties of the atmosphere. The alteration of the Earth's electromagnetic environment may be an even greater threat to life than the radiation from ground-based antennas (see below).

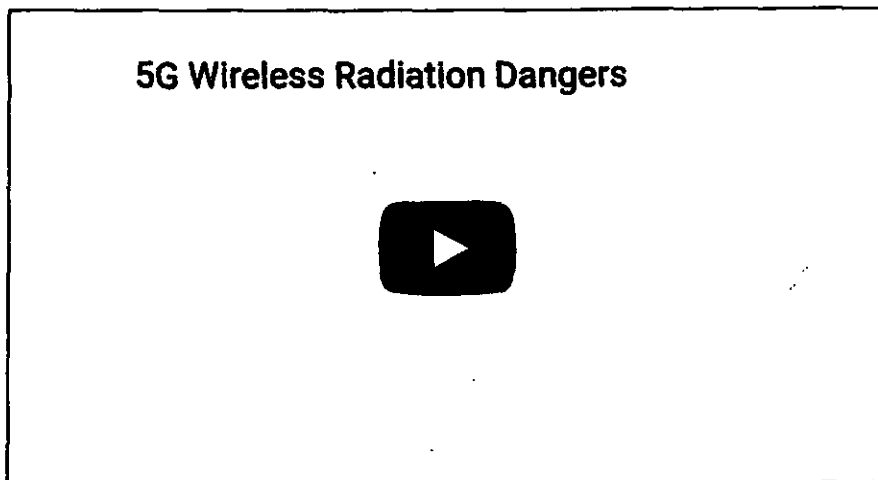
Please go to [Global Research](#) to read the entire article.



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ATI EXHIBIT 1-f

The total number of satellites that is expected to be put into low and high orbit by several companies will be 20,000 satellites. [1]

5G will use Phased Array Antennas to shoot Beams of Radiation at Cell Phones

These satellites will use the same type of phased array antennas as will be used by the ground-based 5G systems.

This means that they will send tightly focused beams of intense microwave radiation at each specific 5G device that is on the Earth and each device will send a beam of radiation back to the satellite. [2]

Previous generations of RF cellular communication used large antennas to send a blanket of radiation in all directions. The lower frequencies they used and the broad distribution of microwaves limited the numbers of cellular devices that could connect through an individual tall tower.

The much shorter length microwaves used for 5G will make it possible to use small phased array antennas to send and receive signals.

Phased array antennas consist of clusters of hundreds of tiny antennas that work together to shoot a ray of energy at a target just like a bullet. A cluster of these tiny antennas can be arranged in a 4 inch by 4 inch matrix.

The rays of microwaves they produce will be strong enough to pass through walls and human bodies. If they were not strong enough to do this, then everyone with a 5G smartphone would have to stand outside when using the devices. [2]

Each 5G product will also have multiple phased array antennas which will be used to create a powerful beam of radiation back to the 5G devices mounted on electrical utility poles or toward a specific satellite in space.

These beams of radiation will also need to be strong enough to pass through walls and human flesh such as a hand or head to reach the intended destination. [2]

This means that if you are in a crowded location, such as an airport or on a train, there will be hundreds if not thousands of invisible beams of radiation flying through the environment at the speed of light.

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ATT EXHIBIT 1-9

As people move in that environment, their bodies will be penetrated by numerous beams of radiation as they walk or as other people walk around them with their 5G smartphones. [2]

5G Phones will be much more Powerful than Previous Phones

The effective radiated power of the 5G phased array antennas in phones will be 10 times more powerful than 4G phones.

No one will be free from exposure.

In addition, 5G beams of microwave radiation will be received and transmitted from new computer equipment, household appliances, and automobiles.

Stationary equipment such as Wi-Fi hubs in homes and offices will be permitted to use microwave beams that are 15 times stronger (300 watts) than the signals from 5G phones or 150 times stronger than 4G phones. [2]

Please go to [Health Impact News](#) to read the entire article.

More at www.abeldanger.org

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Comments (15)



Mervyn

January 29, 2019 at 2:54 pm | #

ATI EXHIBIT 2-a

BioInitiative 2012A Rationale for Biologically-based Exposure Standards
for Low-Intensity Electromagnetic RadiationYou are here: [Home](#) / [Participants](#) / [Do We Know Enough to Take Action?](#)

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Q

There is more evidence than we need.

The last five years worth of new scientific studies tell us the situation is much worse than in 2007 and yet people around the world have so much more daily exposure than even five years ago. Exposures are linked to a variety of adverse health outcomes that may have significant public health consequences. When added across billions of people world-wide, no argument for the status quo can be persuasive now.

In twenty-one technical chapters of this 2012 update, the contributing authors discuss the content and implications of about 1800 new studies. Overall, there is reinforced scientific evidence of risk where there is chronic exposure to low-intensity electromagnetic fields and to wireless technologies (radiofrequency radiation including microwave radiation).

There is more evidence in 2012 that such exposures damage DNA, interfere with DNA repair, evidence of toxicity to the human genome (genes), more worrisome effects on the nervous system (neurology) and more and better studies on the effects of mobile phone base stations (wireless antenna facilities or cell towers) that report lower RFR levels over time can result in adverse health impacts. There has been a big increase in the number of studies looking at the effects of cell phones (on the belt, or in the pocket of men radiating only on standby mode) and from wireless laptops on impacts to sperm quality and motility; and sperm death (fertility and reproduction).

In other new studies of the fetus, infant and young child, and child-in-school – there are a dozen or more new studies of importance.

The 2007 BioInitiative Report was prepared by world-recognized experts in science and public health policy. Outside reviewers also contributed valuable content and perspective. It was concluded even in 2007 that existing public safety limits were inadequate to protect public health, and agreed that new, biologically-based public safety limits were needed five years ago. The public health cost of doing nothing was judged to be unacceptable in 2007. This did nothing to change the rules, nor roll back the technology tsunami of wireless-everywhere.

The levels of exposure we face in 2012 are higher, and have crept into every day life, even for children. The levels at which undesirable effects on health and well-being are seen is much lower. The levels of concern at have dropped lower in 2012 by 10s to 100s of times. There is much greater involuntary exposure, and it is nearly unavoidable even for people who choose not to 'go wireless' (second-hand radiation effects). Safe forms of communication by land-line telephone are being phased out without general public knowledge or agreement. There is no informed consent for consumers (warning labels on cell phones, for example, have been defeated by telecom industry lobby groups). It is still difficult or impossible for a consumer to get reliable information on levels of exposure from wireless devices, it is simply beyond the reach of people to identify where excessively high levels of exposure occur in their communities, and it is very rare for a county or state health department to accommodate requests for information or provide measurements.

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ATI EXHIBIT 2-6

Today the evidence is stronger than ever and it may be placing people at risk, but most people have no idea. There is little indication that cell phone users (whose numbers have risen from roughly 2 billion in 2006 to 8 billion users globally in 2012) are aware of the risks. In that time, whole-body exposures from other RFR sources like WI-FI, WI-MAX, smart grids using wireless utility meters, and vast commercial applications of wireless RFR (in commerce, transportation, in banking, in surveillance and monitoring, in medical imaging and ironically in health care record-keeping and learning environments for education – all these new applications of wireless over wired communications and data transmission add to the RFR saturation in cities. Wireless laptops and wireless internet in schools, and home offices and for homework mean even more chronic exposures to RFR, a designated IARC 2B Possible Human Carcinogen (May 31, 2011).

The range of possible health effects that are adverse with chronic exposures has broadened. The most serious health endpoints that have been reported to be associated with extremely low frequency (ELF) and/or radiofrequency radiation (RFR) include childhood and adult leukemia, childhood and adult brain tumors, and increased risk of the neurodegenerative diseases, Alzheimer's and amyotrophic lateral sclerosis (ALS). Recent studies largely reinforce the potential risks to health (rather than reducing our concerns, or providing actual indications of safety). In addition, there are reports of increased risk of breast cancer in both men and women, genotoxic effects (DNA damage, chromatin condensation, micronucleation, impaired repair of DNA damage in human stem cells), pathological leakage of the blood-brain barrier, altered immune function including increased allergic and inflammatory responses, miscarriage and some cardiovascular effects. Insomnia (sleep disruption) is reported in studies of people living in very low-intensity RFR environments with WI-FI and cell tower-level exposures. Short-term effects on cognition, memory and learning, behavior, reaction time, attention and concentration, and altered brainwave activity (altered EEG) are also reported in the scientific literature. Biophysical mechanisms that may account for such effects can be found in various articles and reviews.

We could do otherwise. Each wireless need had a wired solution in counterpart that has none of the health effects that wireless RFR does, with the exception of cell phone use for talking directly to someone. It is time to re-think the wireless tsunami and educate people about health, privacy and security risks. It is past time to develop new safety standards. It is necessary now to look to less harmful ways to communicate, move ourselves from place to place, shop, sleep, recreate, save energy, and educate our children in school. It is time to rethink our global commerce, energy, banking, transportation and communications infrastructures so we are all committed to sustaining healthy living spaces and conserve safe sanctuary for all species on earth.



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Reported Biological Effects from Radiofrequency Radiation at Low-Intensity Exposure

(Cell Tower, Wi-Fi, Wireless Laptop and 'Smart' Meter RF Intensities)

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SAR (Watts/Kilogram)		Reference
0.000064 - 0.000078 W/Kg	Well-being and cognitive function affected in humans exposed to GSM-UMTS cell phone frequencies; RF levels similar near cell sites	TNO Physics and
0.00015 - 0.003 W/Kg	Calcium ion movement in isolated frog heart tissue is increased 18% (P<.01) and by 21% (P<.05) by weak RF field modulated at 16 Hz	Schwartz, 1990
0.000021 - 0.0021 W/Kg	Changes in cell cycle; cell proliferation (960 MHz GSM mobile phone)	Kwee, 1997
0.0003 - 0.06 W/Kg	Neurobehavioral disorders in offspring of pregnant mice exposed in utero to cell phones - dose-response impaired glutamatergic synaptic transmission onto layer V pyramidal neurons of the prefrontal cortex. Hyperactivity and impaired memory function in offspring. Altered brain development.	Aldad, 2012
0.0016 - 0.0044 W/Kg	Very low power 700 MHz CW affects excitability of hippocampus tissue, consistent with reported behavioral changes.	Tattersall, 2001
0.0021 W/Kg	Heat shock protein HSP 70 is activated by very low intensity microwave exposure in human epithelial amnion cells	Kwee, 2001
0.0024 - 0.024 W/Kg	Digital cell phone RFR at very low intensities causes DNA damage in human cells; both DNA damage and impairment of DNA is reported	Phillips, 1998
0.0027 W/Kg	Changes in active avoidance conditioned behavioral effect is seen after one-half hour of pulsed radiofrequency radiation	Navakatiklan, 1994
0.0035 W/Kg	900 MHz cell phone signal induces DNA breaks and early activation of p53 gene; short exposure of 2-12 hours leads cells to acquire greater survival chance - linked to tumor aggressiveness.	Marinelli, 2004
0.0095 W/Kg	MW modulated at 7 Hz produces more errors in short-term memory function on complex tasks (can affect cognitive processes such as attention and memory)	Lass, 2002
0.001 W/Kg	750 MHz continuous wave (CW) RFR exposure caused increase in heat shock protein (stress proteins). Equivalent to what would be induced by 3 degree C. heating of tissue (but no heating occurred)	De Pomerai, 2000
0.001 W/Kg	Statistically significant change in intracellular calcium concentration in heart muscle cells exposed to RFR (900 MHz/50 Hz modulation)	Wolke, 1996

ATTN EXHIBIT 2-C

Stress proteins, HSP, disrupted immune function	Brain tumors and blood-brain barrier
Reproduction/fertility effects	Sleep, neuron firing rate, EEG, memory, learning, behavior
Oxidative damage/ROS/DNA damage/DNA repair failure	Cancer (other than brain), cell proliferation
Disrupted calcium metabolism	Cardiac, heart muscle, blood-pressure, vascular effects

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Reported Biological Effects from Radiofrequency Radiation at Low-Intensity Exposure
(Cell Tower, Wi-Fi, Wireless Laptop and 'Smart' Meter RF Intensities)

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SAR (Watts/Kilogram)		Reference
0.0021 W/Kg	A significant change in cell proliferation not attributable to thermal heating. RFR induces non-thermal stress proteins (960 MHz GSM)	Velizarov, 1999
0.004 - 0.008 W/Kg	915 MHz cell phone RFR caused pathological leakage of blood-brain barrier. Worst at lower SAR levels and worse with CW compared to Frequency of pathological changes was 35% in rats exposed to pulsed radiation at 50% to continuous wave RFR. Effects observed at a specific absorption (SA) of > 1.5 joules/Kg in human tissues	Persson, 1997
0.0059 W/Kg	Cell phone RFR induces glioma (brain cancer) cells to significantly increase thymidine uptake, which may be indication of more cell division	Stagg, 1997.
0.014 W/Kg	Sperm damage from oxidative stress and lowered melatonin levels resulted from 2-hr per day/45 days exposure to 10 GHz.	Kumar, 2012
0.015 W/Kg	Immune system effects - elevation of PFC count (antibody-producing cells)	Veyret, 1991
0.02 W/Kg	A single, 2-hr exposure to GSM cell phone radiation results in serious neuron damage (brain cell damage) and death in cortex, hippocampus, and basal ganglia of brain- even 50+ days later blood-brain barrier is still leaking albumin (P<.002) following only one cell phone exposure	Salford, 2003
0.026 W/Kg	Activity of c-jun (oncogene or cancer gene) was altered in cells after 20 minutes exposure to cell phone digital TDMA signal	Ivaschuk, 1997
0.0317 W/Kg	Decrease in eating and drinking behavior	Ray, 1990
0.037 W/Kg	Hyperactivity caused by nitric oxide synthase inhibitor is countered by exposure to ultra-wide band pulses (600/sec) for 30 min	Seaman, 1999
0.037 - 0.040 W/Kg	A 1-hr cell phone exposure causes chromatin condensation; Impaired DNA repair mechanisms; last 3 days (longer than stress response) the effect reaches saturation in only one hour of exposure; electro-sensitive (ES) people have different response in formation of DNA repair foci, compared to healthy individuals; effects depend on carrier frequency (915 MHz = 0.037 W/Kg but 1947 MHz = 0.040 W/Kg)	Belyaev, 2008
0.05 W/Kg	Significant increase in firing rate of neurons (350%) with pulsed 900 MHz cell phone radiation exposure (but not with CW) in avian brain cells	Beason, 2002

ATTI EXHIBIT 2-D

Stress proteins, HSP, disrupted immune function	Brain tumors and blood-brain barrier
Reproduction/fertility effects	Sleep, neuron firing rate, EEG, memory, learning, behavior
Oxidative damage/ROS/DNA damage/DNA repair failure	Cancer (other than brain), cell proliferation
Disrupted calcium metabolism	Cardiac, heart muscle, blood-pressure, vascular effects

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**Reported Biological Effects from Radiofrequency Radiation at Low-Intensity Exposure
(Cell Tower, Wi-Fi, Wireless Laptop and 'Smart' Meter RF Intensities)**

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SAR (Watts/Kilogram)		Reference
0.09 W/Kg	900 MHz study of mice for 7 days, 12-hr per day (whole-body) resulted in significant effect on mitochondria and genome stability	Aitken, 2005
0.091 W/Kg	Wireless internet 2400 MHz, 24-hrs per day/20 weeks increased DNA damage and reduced DNA repair; levels below 802.11 g Authors say "findings raise questions about safety of radiofrequency exposure from WI-FI internet access devices for growing organisms of reproductive age, with a potential effect on fertility and integrity of germ cells" (male germ cells are the reproductive cells=sperm)	Atasoy, 2012
0.11 W/Kg	Increased cell death (apoptosis) and DNA fragmentation at 2.45 GHz for 35 days exposure (chronic exposure study)	Kesari, 2010
0.121 W/Kg	Cardiovascular system shows significant decrease in arterial blood pressure (hypotension) after exposure to ultra-wide band pulses	Lu, 1999
0.13 - 1.4 W/Kg	Lymphoma cancer rate doubled with two 1/2-hr exposures per day of cell phone radiation for 18 months (pulsed 900 MHz cell signal)	Repacholi, 1997
0.14 W/Kg	Elevation of immune response to RFR exposure	Elekes, 1996
0.141 W/Kg	Structural changes in testes - smaller diameter of seminiferous	Dasdag, 1999
0.15 - 0.4 W/Kg	Statistically significant increase in malignant tumors in rats chronically exposed to RFR	Chou, 1992
0.26 W/Kg	Harmful effects to the eye/certain drugs sensitize the eye to RFR	Kues, 1992
0.28 - 1.33 W/Kg	Significant increase in reported headaches with increasing use of hand-held cell phone use (maximum tested was 60 min per day)	Chia, 2000
0.3 - 0.44 W/Kg	Cell phone use results in changes in cognitive thinking/mental tasks related to memory retrieval	Krause, 2000
0.3 - 0.44 W/Kg	Attention function of brain and brain responses are speeded up	Preece, 1999
0.3 - 0.46 W/Kg	Cell phone RFR doubles pathological leakage of blood-brain barrier permeability at two days (P=.002) and triples permeability at four days (P=.001) at 1800 MHz GSM cell phone radiation	Schlmacher, 2000
0.43 W/Kg	Significant decrease in sperm mobility; drop in sperm concentration; and decrease in seminiferous tubules at 800 MHz, 8-hr/day, 12 weeks, with mobile phone radiation level on STANDBY ONLY (In rabbits)	Salama, 2008

ATTI EXHIBIT 2-2

Stress proteins, HSP, disrupted immune function	Brain tumors and blood-brain barrier
Reproduction/fertility effects	Sleep, neuron firing rate, EEG, memory, learning, behavior
Oxidative damage/ROS/DNA damage/DNA repair failure	Cancer (other than brain), cell proliferation
Disrupted calcium metabolism	Cardiac, heart muscle, blood-pressure, vascular effects

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(Cell Tower, WI-Fi, Wireless Laptop and 'Smart' Meter RF Intensities)**

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SAR (Watts/Kilogram)		Reference
0.5 W/Kg	900 MHz pulsed RF affects firing rate of neurons (<i>Lymnea stagnalis</i>) but continuous wave had no effect	Bolshakov, 1992
0.58 - 0.75 W/Kg	Decrease in brain tumors after chronic exposure to RFR at 836 MHz	Adey, 1999
0.6 - 0.9 W/Kg	Mouse embryos develop fragile cranial bones from in utero 900 MHz The authors say "(O)ur results clearly show that even modest exposure (e.g., 6 min daily for 21 days" is sufficient to interfere with the normal mouse developmental process"	Fragopoulou, 2009
0.6 and 1.2 W/Kg	Increase in DNA single and double-strand DNA breaks in rat brain cells with exposure to 2450 MHz RFR	Lal & Singh, 1996
0.795 W/Kg	GSM 900 MHz, 217 Hz significantly decreases ovarian development and size of ovaries, due to DNA damage and premature cell death of nurse cells and follicles in ovaries (that nourish egg cells)	Panagopoulous, 2012
0.87 W/Kg	Altered human mental performance after exposure to GSM cell phone radiation (900 MHz TDMA digital cell phone signal)	Hamblin, 2004
0.87 W/Kg	Change in human brainwaves; decrease in EEG potential and statistically significant change in alpha (8-13 Hz) and beta (13-22 Hz) brainwave activity in humans at 900 MHz; exposures 6/min per day for 21 days (chronic exposure)	D'Costa, 2003
0.9 W/Kg	Decreased sperm count and more sperm cell death (apoptosis) after 35 days exposure, 2-hr per day	Kesari, 2012
< 1.0 W/Kg	Rats exposed to mobile phone radiation on STANDBY ONLY for 11-hr 45-min plus 15-min TRANSMIT mode; 2 times per day for 21 days showed decreased number of ovarian follicles in pups born to these pregnant rats. The authors conclude "the decreased number of follicles in pups exposed to mobile phone microwaves suggest that Intrauterine exposure has toxic effects on ovaries."	Gul, 2009
0.4 - 1.0 W/Kg	One 6-hr exposure to 1800 MHz cell phone radiation in human sperm cells caused a significant dose response and reduced sperm motility and viability; reactive oxygen species levels were significantly increased after exposure to 1.0 W/Kg; study confirms detrimental effects of RF/MW to human sperm. The authors conclude "(T)hese findings have clear implications for the safety of extensive mobile phone use by males of reproductive age, potentially affecting both their fertility and the health and wellbeing of their offspring."	De Iullis, 2009
1.0 W/Kg	Human semen degraded by exposure to cell phone frequency RF increased free-radical damage.	De Iullis, 2009

ATTN: EXHIBIT 2-f

Stress proteins, HSP, disrupted immune function	Brain tumors and blood-brain barrier
Reproduction/fertility effects	Sleep, neuron firing rate, EEG, memory, learning, behavior
Oxidative damage/ROS/DNA damage/DNA repair failure	Cancer (other than brain), cell proliferation
Disrupted calcium metabolism	Cardiac, heart muscle, blood-pressure, vascular effects

**Reported Biological Effects from Radiofrequency Radiation at Low-Intensity Exposure
(Cell Tower, WI-FI, Wireless Laptop and 'Smart' Meter RF Intensities)**

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B-7 EXHIBIT 19

SAR (Watts/Kilogram)		Reference
1.0 W/Kg	Motility, sperm count, sperm morphology, and viability reduced in active cell phone users (human males) in dose-dependent manner.	Agarwal, 2008
1.0 W/Kg	GSM cell phone use modulates brain wave oscillations and sleep EEG	Huber, 2002
1.0 W/Kg	Cell phone RFR during waking hours affects brain wave activity. (EEG patterns) during subsequent sleep	Achermann, 2000
1.0 W/Kg	Cell phone use causes nitric oxide (NO) nasal vasodilation (swelling inside nasal passage) on side of head phone use	Paredi, 2001
1.0 W/Kg	Increase in headache, fatigue and heating behind ear in cell phone users	Sandstrom, 2001
1.0 W/Kg	Significant increase in concentration difficulties using 1800 MHz cell phone compared to 900 MHz cell phone	Santini, 2001
1.0 W/Kg	Sleep patterns and brain wave activity are changed with 900 MHz cell phone radiation exposure during sleep	Borbely, 1999
1.4 W/Kg	GSM cell phone exposure induced heat shock protein HSP 70 by 360% (stress response) and phosphorylation of ELK-1 by 390%	Welsbrot, 2003
1.46 W/Kg	850 MHz cell phone radiation decreases sperm motility, viability is significantly decreased; increased oxidative damage (free-radicals) significantly decreased; increased oxidative damage (free-radicals)	Agarwal, 2009
1.48 W/Kg	A significant decrease in protein kinase C activity at 112 MHz with 2-hr per day for 35 days; hippocampus is site, consistent with reports that RFR negatively affects learning and memory functions	Paulraj, 2004
1.0 - 2.0 W/Kg	Significant elevation in micronuclei in peripheral blood cells at 2450 MHz (8 treatments of 2-hr each)	Trosic, 2002
1.5 W/Kg	GSM cell phone exposure affected gene expression levels in tumor suppressor p53-deficient embryonic stem cells; and significantly increased HSP 70 heat shock protein production	Czyz, 2004
1.8 W/Kg	Whole-body exposure to RF cell phone radiation of 900-1800 MHz 1 cm from head of rats caused high incidence of sperm cell death; deformation of sperm cells; prominent clumping together of sperm cells into "grass bundle shapes" that are unable to separate/swim. Sperm cells unable to swim and fertilize in normal manner.	Yan, 2007

Stress proteins, HSP, disrupted immune function	Brain tumors and blood-brain barrier
Reproduction/fertility effects	Sleep, neuron firing rate, EEG, memory, learning, behavior
Oxidative damage/ROS/DNA damage/DNA repair failure	Cancer (other than brain), cell proliferation
Disrupted calcium metabolism	Cardiac, heart muscle, blood-pressure, vascular effects

Reported Biological Effects from Radiofrequency Radiation at Low-Intensity Exposure (Cell Tower, Wi-Fi, Wireless Laptop and 'Smart' Meter RF Intensities)

SAR (Watts/Kilogram)		Reference
2.0 W/Kg	GSM cell phone exposure of 1-hr activated heat shock protein HSP 27 (stress response) and P38 MAPK (mutagen-activated protein kinase) that authors say facilitates brain cancer and increased blood-brain barrier permeability, allowing toxins to cross BBB into brain.	Leszczynski, 2002
2 W/Kg	900 MHz cell phone exposure caused brain cell oxidative damage by increasing levels of NO, MDA, XO and ADA in brain cells; caused statistically significant increase in 'dark neurons' or damaged brain cells in cortex, hippocampus and basal ganglia with a 1-hr exposure for 7 consecutive days	Ilhan, 2004
2.6 W/Kg	900 MHz cell phone exposure for 1-hr significantly altered protein expression levels in 38 proteins following irradiation; activates P38 MAP kinase stress signalling pathway and leads to changes in cell size and shape (shrinking and rounding up) and to activation of HSP 27, a stress protein (heat shock protein)	Leszczynski, 2004
2.0 - 3.0 W/Kg	RFR accelerated development of both skin and breast tumors	Szmiglejski, 1982
2 W/Kg	Pulse-modulated RFR and MF affect brain physiology (sleep study)	Schmidt, 2012

STANDARDS		
0.08 W/Kg	IEEE Standard uncontrolled public environment (whole body)	IEEE
0.4 W/Kg	IEEE Standard controlled occupational environment (whole body)	IEEE
1.6 W/Kg	FCC (IEEE) SAR limit for 1 gram of tissue in a partial body exposure	FCC, 1996
2 W/Kg	ICNIRP SAR limit for 10 grams of tissue	ICNIRP, 1996

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Stress proteins, HSP, disrupted immune function	Brain tumors and blood-brain barrier
Reproduction/fertility effects	Sleep, neuron firing rate, EEG, memory, learning, behavior
Oxidative damage/ROS/DNA damage/DNA repair failure	Cancer (other than brain), cell proliferation
Disrupted calcium metabolism	Cardiac, heart muscle, blood-pressure, vascular effects

ATTI EXHIBIT 2-11

ATI EXHIBIT 3-a

John Chenosky

From: John Chenosky <johnsuzy@windstream.net>
Sent: Thursday, April 11, 2019 9:49 AM
To: broae@pahousegop.com; 'cquinn@pahousegop.com';
'Ffarry@pahousegop.com'; tsankey@pahousegop.com;
'Sdelozie@pahousegop.com'; 'gdigirol@pahousegop.com';
'jemrick@pahousegop.com'; 'rkauffman@pahousegop.com';
rmackenzie@pahousegop.com; 'jpayne@pahousegop.com';
'enelson@pahouse.com'; 'tpicket@pahousegop.com';
'Tstephen@pahousegop.com'; 'mwhite@pahousegop.com';
'rmatzie@pahouse.net'; 'adavis@pahouse.net'; 'pschweyer@pahouse.net';
psnyder@pahouse.com; 'rbizz@pahouse.net'; dbullock@pahouse.com;
'fburns@pahouse.net'; 'tdavis@pahouse.net'; 'mflynn@pahouse.net';
'enelson@pahouse.com'
Cc: dmaloney@pahousegop.com; Mensch, Senator Bob (bmensch@pasen.gov);
mfaust@weeu.com; WALSH, BOBBYGUNTHER (Gunther@iheartmedia.com)
Subject: POLLUTION COLLUSION-- BIOLOGICAL EFFECTS FROM EMF FROM SMART METERS

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<https://bioinitiative.org/conclusions/>

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<https://principia-scientific.org/study-wi-fi-is-an-important-threat-to-human-health/>

Legislators & Media:

The writer, a Licensed Professional Engineer in Pennsylvania, the Complainant, is currently embroiled in a Formal Complaint against Metropolitan Edison and the PA PUC identified as Docket No. C-2019-3007622. The Consumer Affairs Committee and ex-Chairman Robert Godshall are the reason the Complainant has this dilemma.

As another Complainant, Catherine Frompovich v. PECO summarizes.... "What I've uncovered regarding the illegality of Act 129 (2008) the PA PUC it is enforcing is totally different from and contrary to, what the State Legislature actually passed, i.e., HB2200. Basically, the PA PUC changed the law from not mandating to mandating while drafting implementation rules and regulations for AMI SMs in Pennsylvania."

Interestingly the instant PECO received \$200 Million in stimulus funds, Grey Godshall, (son of Robert Godshall formal committee chairman) was promoted to Project

EXHIBIT 3-6

Manager at PECO's parent EXELON???? Can anyone on your committee have a reasonable explanation for that action given Grey's questionable CV??

Despite the fact Ms. Frompovich is not an attorney, she represented herself well, notwithstanding having to face Two (2) PA PUC Admin. Law Court Judges, Four (4) PECO expert witnesses and three (3) PECO Attorney's. I'd link the salacious details but the email might fail. Read the details at Activist Post.

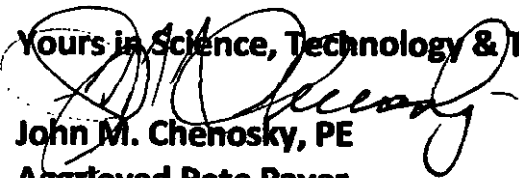
Without going into the details of my Formal Complaint, I will never understand how policy makers, most of whom are technically deficient in Science and Technology, accept studies and reports from Utilities without corroborating evidence from Independent Scientists & Engineers, or who provide opposing reviews and peer reviewed studies.

Now to the point. The PA PUC and Legislature has been misled about the levels of Electronic Smog and the cumulative effects over time that our electronic devices have exposed our bodies to including: our nervous systems, our vision and exposed our DNA to destructive levels over time. Devices like "Smart Meters" provide additional radiation in excess of the propaganda the policy makers were provided.

The links provide Conclusions of 1800 studies and provides PDF Power Point Color Charts revealing disturbing evidence of the Biological Effects from EMF/RF/ELF.

On this scientific basis your Committee needs to reintroduce HB1566 or equivalent implement with the language...."*Customers may opt-out of receiving smart meter technology under this subparagraph by notifying, in writing, the electric distribution company.....etc.*"

The Electro Smog effects are further reinforced in the above mentioned links. An immediate stay needs to be implemented to protect those that have filed formal complaints and immediately pass the originally intended/clarifying legislation.

Yours in Science, Technology & Truth,

John M. Chenosky, PE
Aggrieved Rate Payer

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**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

John M. Chenosky :
 :
 :
v. : **Docket No. C-2019-3007622**
 :
 :
Metropolitan Edison Company :

CERTIFICATE OF SERVICE

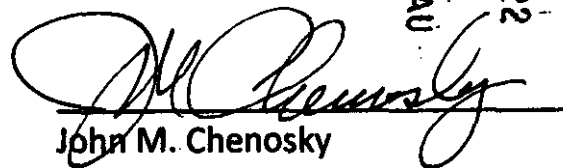
I hereby certify that I have this day served a true copy of objections to the tenor, content, and violation of my rights under HIPAA law and Fourth Amendment Rights of Privacy demanded by Defendant with their May 16, 2019 repetitive Interrogatories, Requests for Production of Documents (Set 1), and unexecuted Stipulated Protective Agreement. In lieu of the format requested by Defendant, I responded with stated objections and provided a modified set of Interrogatories and limited Production of Documents due to unrealistic deadline.

Service by First Class Mail, postage prepaid, as follows:

Lauren M. Lepkoski
Tori L. Giesler
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Dated: July 18, 2019

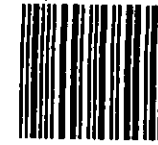


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19538
JUL 19, 19
AMOUNT

\$1.75

R2305K137560-05

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor
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