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Curtin & Heefner LLP
ATTORNEYS AT LAW

2005 S. EASTON ROAD • SUITE 100 • DOYLESTOWN, PA 18901
(267) 898.0570 • (800) 773.0680 • FAX (215) 340.3929
WWW.CURTINHEEFNER.COM

CELEBRATING OVER 80 YEARS

JOANNA A. WALDRON
JAW@curtinheefner.com

January 20, 2020

VIA EMAIL at jcheskis@pa.gov & OVERNIGHT DELIVERY

Administrative Law Judge Joel H. Cheskis
Pennsylvania Public Utility Commission
Office of Administrative Law Judge
400 North Street 2nd Floor West
Harrisburg, PA 17120

RECEIVED
JAN 23 2020
LEGAL DEPT.

Re: Judith Hendin v. Metropolitan Edison Company, Docket No. C-2018-3003324

Dear Judge Cheskis:

Evidentiary hearings in this matter were held on December 19 and 20, 2019, during which Your Honor requested Plaintiff resubmit non-confidential and confidential versions of Plaintiff's Amended Witness Statement, Plaintiff's Supplement and the Witness Statement of Dr. Kracht. In accordance with that direction, enclosed are three copies of the non-confidential and confidential testimony and exhibits. Please note that only the non-confidential versions will be sent via electronic mail.

Both the confidential and non-confidential versions of the testimony and exhibits have been served as shown in the Certification of Service.

Should you have any questions or comments, please feel free to contact me directly.
Thank you.

Respectfully submitted,



Joanna A. Waldron, Esquire
CURTIN & HEEFNER LLP

cc: Rosemary Chiavetta, Secretary (letter & COS only via e-filing)
Certificate of Service

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Judith D. Hendin

V.

Metropolitan Edison Company

:
:
:
:
:

C-2018-3003324

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing Plaintiff's Amended Witness Statement, Plaintiff's Supplement and the Witness Statement of Dr. Kracht has been served upon the following persons in the manner indicated, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant).

Via U.S. MAIL and EMAIL

Lauren M. Lepkoski, Esquire
Tori L. Giesler, Esquire
FirstEnergy Service Company
2800 Pottsville Pike
P.O. Box 16001
Reading, Pennsylvania 19612-6001
llepkoski@firstenergycorp.com
tgiesler@firstenergycorp.com

Via U.S. MAIL and EMAIL

Administrative Law Judge Joel H. Cheskis
Pennsylvania Public Utility Commission
Office of Administrative Law Judge
400 North Street, 2nd Floor West
Harrisburg, PA 17120
jcheskis@pa.gov

Dated: January 20, 2020

s/Joanna A. Waldron
Joanna A. Waldron, Esquire
Pa. ID # 84768
CURTIN & HEEFNER LLP
Doylestown Commerce Center
2005 South Easton Road, Suite 100
Doylestown, PA 18901
jaw@curtinheefner.com
Attorney for the Complainant

Public

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Judith D. Hendin	:	
	:	
v.	:	
	:	C-2018-3003324
Metropolitan Edison Company	:	

**TESTIMONY OF
JUDITH HENDIN**

**AMENDED WITNESS STATEMENT ON BEHALF OF COMPLAINANT
JUDITH HENDIN**

Public

1 **Q. Please state your name and address.**

2 A. My name is Judith Hendin and I live at 402 Woodland Road in Easton,
3 Pennsylvania.

4 **Q. What is your occupation?**

5 A. I am a Somatic Therapist, as well as author and lecturer in the field of
6 bodypsychic consciousness.

7 **Q. How long have you lived at your current address?**

8 A: I have lived at 402 Woodland Road in Easton, Pennsylvania for more than 20
9 years. My electric service is provided by Med-Ed, see Exhibit 1.

10 **Q: Where do you work?**

11 A. I work at the same location, seeing clients. I also travel and speak at conferences
12 and teach outside of the country throughout the year.

13 **Q. Have you ever offered testimony before the Pennsylvania Public Utility
14 Commission as a witness?**

15 A. No.

16 **Q. What is the purpose of your testimony?**

17 A. I am providing testimony about the proposed smart meter installation at my home
18 and workplace, and the impact that the smart meter will have on my medical
19 conditions, and my living and working situation. I often work from home, and
20 spend nearly 100% of my time, when I am not traveling for work. I will explain
21 my medical conditions, as well as my previous experience with a smart meter that
22 was removed, which confirms that I will suffer adverse medical effects if a smart
23 meter is installed.

Public

24 Q: Can you describe the proposed location of the smart meter?

25 A. The proposed location of the meter is only 6 inches from the only door in and out
26 of my house and workplace. The smart meter is proposed to be less than 4 feet
27 from my kitchen, only 8 feet from where my desk is, and less than 20 feet from
28 where I sleep.

29 Q. Do you have any conditions that we should be aware of? [BEGIN HIGHLY CONFIDENTIAL]

30 A. [REDACTED]
31 [REDACTED]

32 Q: [REDACTED]

33 A: [REDACTED]
34 [REDACTED]
35 [REDACTED]
36 [REDACTED]

37 Q: [REDACTED]

38 A: [REDACTED]
39 [REDACTED]
40 [REDACTED]
41 [REDACTED]
42 [REDACTED]
43 [REDACTED]
44 [REDACTED]
45 [REDACTED]

Public

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[REDACTED] [END HIGHLY CONFIDENTIAL]

48

Q: What do you do to manage your syndromes?

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A. I stay away from all sources of EMFs as much as possible. Dr. Kracht has advised me of how to avoid EMFs as much as possible, as well as volatile organic chemical and other chemical avoidance measures. For example, in my home and workplace, I do not have a television. I do not have a microwave. I do not use wireless devices in my home. My home and workplace does not have wifi. At night, I unplug almost everything in my house so that I sleep in a nearly EMF-free zone.

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Q: Do you have a cellphone?

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A: I have a cellphone that is for emergency use only. The cellphone was purchased in 2005 and does not have internet access, GPS, camera or other smart phone features. Further, it does not emit EMFs. When speaking on the phone, I use the speakerphone so that I do not hold the cellphone to my head. I also keep the phone off when it is in my purse. My use of the phone is quite limited, as I only rely on it when I am at conferences and cannot be reached on a landline, or when traveling to visit friends or family, or when a client needs to reach me and the landline is not an option. My recollection is that I have not used the cellphone for client contact in about 10 years. I use cell phone service so rarely that I have several years' worth of credit on my service from Virgin Mobile. Virgin Mobile charges me \$20 quarterly, and unused amounts are credited toward my account for future use. I have approximately 11 quarters of credit, over \$222.

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Public

69 **Q: What precautions do you take in using devices to avoid EMF exposure in**
70 **everyday situations?**

71 A: I use a gaussmeter to measure EMFs before purchasing any electrical item. I also
72 turn my computer printer off when not in use, and have specific equipment to
73 protect me, including a no-EMF earphone, and a protective laptop screen. For
74 example, after measuring the keyboard of my laptop with the gaussmeter, I
75 determined that EMFs were emitted from the keyboard, so I purchased an external
76 keyboard which is attached by a cord. Likewise, I use the external attached non-
77 wireless mouse. My chair is positioned at least 30 inches away from the laptop
78 screen.

79 **Q: What other efforts do you make to avoid EMFs?**

80 A: I have a low EMF hair dryer, which I rarely use. I only use lights and lamps when
81 necessary, and I keep lights and lamps unplugged when not in use. I do not wear
82 a watch anymore unless absolutely necessary, such as in a teaching situation
83 where there is no other clock.

84 **Q: What precautions do you take when traveling?**

85 A: When I travel, in addition to keeping the various plug-in devices for computer use
86 in my computer bag, at hotels, I always ask for an Ethernet cable to connect to the
87 internet so that I can avoid Wifi. And, I unplug any devices that I can, such as
88 clock radios, microwave, coffee machines, and the television. My doctor wrote
89 me a letter on June 29, 2013 stating that I am not to be exposed to airline security
90 screening machines that emit EMF's.

91 **Q: What experience do you have with smart devices?**

Public

92 A: I used to have a smart meter for gas service at my home and workplace until it
93 was removed in 2012.

94 **Q: What can you tell us about the gas service smart meter?**

95 A: Although I spent considerable time working with UGI to determine when they
96 installed a smart meter, they were unable to confirm that date. We do know that
97 UGI removed the smart meter on September 16, 2012, but UGI was unable to
98 confirm when the smart meter was installed. I was away teaching in Europe from
99 March 21 through April 26. [BEGIN HIGHLY CONFIDENTIAL]

100 [REDACTED]

101 [REDACTED] [END HIGHLY CONFIDENTIAL]

102 **Q: What did Dr. Kracht do?**

103 A. Dr. Kracht issued a letter of medical necessity, which was sent to the UGI. See
104 Exhibit 2.

105 **Q: What happened after you sent the letter of medical necessity to UGI?**

106 A: [BEGIN HIGHLY CONFIDENTIAL]
106 [REDACTED]

107 [REDACTED]

108 [REDACTED]

[END HIGHLY CONFIDENTIAL]

109 **Q: What did you learn about the smart meters used by UGI?**

110 A: I remembered that the type of meter was a Sensus FlexNet, and was an "ERT,"
111 which UGI explained to me meant that an employee of UGI could drive by the
112 house and get the meter reading without getting out of the car.

113 **Q: What did you learn about AMR and smart meters?**

Public

114 A: I researched information about the differences between AMR meters and smart
115 meters. My understanding is that even digital meters universally cause electricity
116 to flow through the homes wiring, and therefore, I want to have analog meters.
117 AMR (“Automatic Meter Reading”) meters were the first of the so-called “smart
118 meters,” which were able to remotely transmit data. AMR meters, which are still
119 widely used, only transmit information one way. Typically, this is done by
120 constantly emitting data via RF radiation, so that when a utility vehicle drives by,
121 the reading can be picked up and logged. My understanding is that smart meters
122 today and which Respondents wish to install at my home are AMI (“Advanced
123 Metering Interface”). AMI meters are capable of transmitting the data back to the
124 utility headquarters, which gives them significantly more control and does not
125 rely on a vehicle driving by to relay the information. AMI meters use existing
126 networks and infrastructure to constantly send usage data all the way back to the
127 utility companies servers, regardless of location. AMI meters also receive data
128 and controls from the utility companies. This allows them to do things such as
129 update the firmware on the device and to control the flow of electricity, gas, or
130 water, without having to enter a property. Analog meters only record the flow of
131 utility and have only that information.

132 **Q: Have you had any symptoms from the installation of the smart meter for**
133 **Tomias Hinchcliff, your neighbor?**

134 A: I have avoided being near the meter for any length of time, and note that the meter
135 is quite a distance away from my house and workplace.

136 **Q: What sorts of instruments have you used to measure exposure?**

Public

137 A: I have used a gaussmeter for years to measure EMFs, and have recently acquired
138 an RF meter. I will testify about the results that I have seen using this RF meter
139 and can make the meter available to the court. In general, my observations have
140 been that the smart meter at my neighbor's house emits an unusual and
141 unpredictable pattern of RF emissions, with some of the levels being extremely
142 high for short periods of time. This makes me skeptical about the exposure
143 information provided by utilities that include time-averaged information, which
144 makes the peak level claimed by utilities seem much lower.

145 **Q: Have you conducted measurements at your neighbor's smart meter and what**
146 **were the results?**

147 A: Over a two-minute period, the neighbor's smart meter emitted RFs of 130, 140,
148 and 170 microwatts per square meter over a two minute period, which is far above
149 the recommended maximum of 1 uW/m². In addition, this frequency of high
150 emissions is happening 20,160 times per week, and over a million times per year.
151 See Exhibit 3.

152 **Q: Can you tell us about the distance of a smart meter from living spaces?**

153 A: The distance of a smart meter from living spaces is an important factor in exposure.
154 My living situation strongly adds another reason for restoring the analog meter and
155 removing the digital meter. Manufacturers of smart meters concede that distance is a
156 factor in the effect of smart meters on individuals. Appendix at 5. Dr. Kracht, my
157 own physician, is working with his own electric company to set his smart meter 30
158 feet away. Further, I have read that 50 feet is the recommended distance.

159 **Q: What concerns do you have about the smart meter?**

Public

160 A: The meter would be out of my control, and apparently out of the control of the
 161 utility as to when the RFs are emitted and pulses occur. I would be exposed to RF
 162 radiation constantly, day and night. The continual monitoring is an invasion of
 163 privacy without any protections for me as the consumer. Additionally, I want to
 164 opt out of the smart meter, as is overwhelmingly permitted in many other states.
 165 Appendix at 16. Recently, cellphones have been tested for RF radiation
 166 exceedances and it's my understanding that the Federal Communications
 167 Commission ("FCC") is investigating and conducting its own testing because so
 168 many exceedances were identified. Appendix at 10.

169 **Q: Do you have any other concerns about the proposed installation of a smart**
 170 **meter?**

171 A. My understanding is that digital meters and smart meters universally cause dirty
 172 electricity to flow through the home's wiring and cause detrimental effects, and
 173 therefore, I want to have my analog meter back. Smart meters cause "dirty
 174 electricity." "Dirty" electricity refers to spikes and surges of electromagnetic
 175 energy traveling along power lines and building wiring rather than standard 50/60
 176 Hertz AC electricity. "Clean" electricity is electrical power that is free from
 177 voltage spikes and drops and outside the ideal sine waveform.

178 **Q: What specific health concerns do you have? [BEGIN HIGHLY CONFIDENTIAL]**

179 A: [REDACTED]
 180 [REDACTED]
 181 [REDACTED]
 182 [REDACTED]

Public

183 [REDACTED]

184 [REDACTED]

185 Q: [REDACTED]

186 A: [REDACTED]

187 [REDACTED]

188 [REDACTED]

189 [REDACTED]

190 [REDACTED] [END HIGHLY CONFIDENTIAL]

191 Q: **Can you describe what happened to you at the Newark Airport on October 24,**
192 **2018?**

193 A: I had an incident that reveals my sensitivity to EMFs (electromagnetic frequencies).
194 I was leaving to teach in Europe. At the security checkpoint, I asked to opt out of
195 going through the security monitors. I explained that I carry a letter from my
196 physician that evidences that I need to opt out of the security monitors for health
197 reasons, namely, my EMF sensitivity. My typical experience with this procedure is
198 that the alternative process for security goes quickly. Typically, a female airport
199 employee is called over who ushers me through a gate, and a pat-down is performed.

200 Q: **And what was your experience on this day?**

201 A: No employee came quickly, and I was waiting for a long time, standing between two
202 x-ray machines (for baggage) and next to the walk-through security screener. I
203 asked whether there was any other place that I could wait but was told that I had to
204 stay there. I repeated this request several times for an employee to come over to
205 perform the alternative security process, and my request that if no employee could

Public

[BEGIN HIGHLY CONFIDENTIAL]

206 come soon, could I please wait in another area. [REDACTED]

207 [REDACTED]

208 [REDACTED]

209 [REDACTED]

210 [REDACTED]

211 Q: [REDACTED]

212 A: [REDACTED]

213 Q: [REDACTED]

214 A: [REDACTED]

215 [REDACTED]

216 [REDACTED]

217 [REDACTED]

218 [REDACTED]

219 [REDACTED]

220 [REDACTED]

221 [REDACTED]

222 Q: [REDACTED]

223 A: [REDACTED]

224 [REDACTED]

225 [REDACTED]

226 [REDACTED]

227 [END HIGHLY CONFIDENTIAL]

Public

228 **Q: What do you know about comparable testing for people for electromagnetic**
229 **pollutants?**

230 A: Last year, I called Great Plains Laboratory, Inc., which is located at 11813 West 77th
231 Street in Lenexa Kansas, 66214 to see if there is comparable testing for
232 electromagnetic pollutants. Great Plains has been in operation for 20 years, and they
233 have been testing for environmental toxins for 4-5 years. When I asked if they
234 foresee testing for electromagnetic sensitivity and effects of EMFs on health, they
235 said that nothing is currently in research and development. Great Plains relayed that
236 they had no other related companies that were developing such testing yet.

237 **Q: What is your understanding of whether any testing is available at this time?**

238 A.: There is currently no testing available. For electromagnetic pollutants, we are talking
239 about the medicine of the future. The available testing could test for EMF sensitivity,
240 similar to allergy testing for sensitivity to certain substances.

241 **Q: What have you learned about international concerns about EMFs?**

242 A: Many countries and the World Health Organization have expressed concerns
243 about EMF and RF exposure. See Appendix 4, 7 -9. For example, the European
244 Academy of Environmental Medicine (EUROPAEM) published 2016 Guidelines
245 for the Prevention, Diagnosis and Treatment of EMF-Related Health Problems
246 and Illnesses. As explained in those Guidelines, “new exposures” like
247 electromagnetic fields (EMF) studies, empirical observations, and patient reports
248 clearly indicate interactions between EMF exposure and health problems.
249 Individual susceptibility and environmental factors are frequently neglected. New

Public

250 wireless technologies and applications have been introduced without investigation
251 of their health effects, raising new challenges for medicine and society.

252 **Q. Does this complete your direct testimony?**

253 A. Yes, it does. As more information becomes available from the parties regarding
254 this case through discovery or other means, it may be necessary to supplement my
255 testimony. I reserve the right to supplement my testimony at any time during the
256 course of this proceeding.

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Public

Invoice Number: 95057207248

Page 2 of 2

Messages (Continued)

Explanation of Terms

Customer Charge - Monthly charge that offsets costs for billing, meter reading, equipment, service line maintenance and assessing and deploying Smart Meter technology.
Default Service Support Charge - Charge to recover new and deferred costs associated with serving customers in a competitive market.
Distribution Charge - Charge for Universal Service Program and Energy Efficiency Program costs and for the use of local wires, transformers, substations and other equipment used to deliver electricity to consumers from high-voltage transmission lines.
Distribution System Improvement Charge - This charge recovers costs incurred to repair, improve or replace infrastructure that the Company uses to deliver electricity to its customers.
Estimated Reading - On the months we do not read a meter, we calculate the bill based on past electrical usage.
KWH (Kilowatt Hour) - A unit of measure for electricity usage equal to 1,000 watts used for one hour.
Late Payment Charge - A charge added to the bill on balances owed after the Due Date.

Price to Compare (PTC) - Price per kilowatt hour to be used when comparing to the price of a generation supplier.
Price to Compare Default Service - Charges for costs to provide energy capacity, compliance with Alternative Energy Portfolio Standards, transmission and ancillary services for customers receiving Default Service.
Prorated Reading - Reading calculated by multiplying the daily average electric usage between two recent readings by the number of days in the billing period.
Service Charge - Charge for opening an account.
Solar Requirements Charge - Charge to acquire Solar Photovoltaic Alternative Energy Credits to comply with the Alternative Energy Portfolio Standards Act.
State Tax Surcharge - An adjustment to the state taxes recovered through Met-Ed's basic charges.
TCJA Voluntary Surcharge - This surcharge adjusts customer rates for the reduction to corporate federal income tax under the Tax Cuts and Jobs Act.

General Information

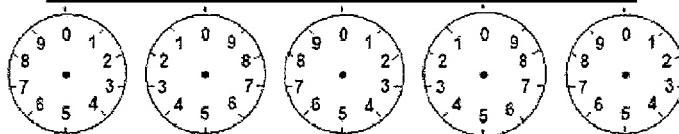
If you have billing questions or complaints about your Met-Ed account, please contact us before the due date.
Call Customer Service at 1-800-545-7741 from Monday - Friday 8 a.m. - 6 p.m. Our representatives can answer your questions, describe the charges on your bill, explain how to make sure your bill is correct, and provide information on rate schedules and energy efficiency.
Call Payment Options at 1-800-962-4848 from Monday - Friday 8 a.m. - 6 p.m.
 Visit our web site at: www.firstenergycorp.com
Write to us at Met-Ed, 76 S. Main St., A-RPC, Akron, OH 44308-1890.
 Customers with hearing or speech impairments can contact the Telecommunications Relay Service (TRS) at 711.
 Information about Green Mountain Energy Company: P.O. Box 7476, Philadelphia, PA 19101, 1-800-286-5856.

For your protection, all of our employees wear Photo ID badges.

Electronic Check Conversion - Your check authorizes us either to make a one-time electronic funds transfer (EFT) from your account or process as a check. If you have questions about this program, call 1-866-283-8081.

To provide a customer meter reading, use the dials provided and enter the reading on-line at www.firstenergycorp.com/about/yourbill or by calling 1-800-545-7741. Say "Meter Reading" when asked "Which of these can I help you with today?" Have the date you took the reading available. If this is to avoid a scheduled estimate, please check the front of the bill for entry dates.

Provide reading by telephone or on-line only: DO NOT MAIL



Draw hands on the dials exactly as they appear on your electric meter. When reading your meter, if the hand falls between two numbers, always report the lower number.

If you have a DIGITAL METER, write the numbers here:

Public

EXHIBIT 2

Woodlands Healing Research Center

5724 Clymer Rd., Quakertown PA 18951
215-536-1890/800-517-9545; Fax 215-529-9034
Email: foffice@woodmed.com

<u>Nicholas DiMartino, D.O.</u>	<u>Jennifer Burns, D.O.</u>	<u>William G. Kracht, D.O.</u>	<u>Robert H. Schmidt, D.O.</u>
PA#: OS 010225-L	PA#: OS 014522-L	PA#: OS 008772-L	PA#: OS 005979-L
Diplomate, A.B.F.P.		Diplomate, A.B.F.P.	Diplomate, A.B.F.P.

Letter of Medical Necessity

Date: 08/24/2012 8:49 AM

Judith Hendin Gender: F DOB: 03/10/1951 Age: 61 Years
P.O. Box 1449
Easton, PA 18044
Acct# 501824380818
Date of Initial Office Visit: 05/16/2001

ATTN: Meter Reading Supervisor


The above named patient is currently under active treatment for the following condition(s):

<u>Sx Onset</u>	<u>Dx Date</u>	<u>Code</u>	<u>Diagnosis</u>	<u>Status</u>	<u>Severity</u>	<u>Dx Comment</u>
	08/24/2012	9953	Allergy/Hypersensitivity, NOS			EMF Intolerance

The following therapies are medically necessary to treat the above stated conditions(s):

To remove electric smart meter from patient's residence.

Thank you for your time and consideration in this matter. Please feel free to contact me or this office for further assistance in this matter.


William Kracht DO

Public

Exhibit 3

Calculation of frequency: 2/min. x 60 min./hr x 24 hr/day = 2,880 high emissions per day

2,880 high emissions x 7 days/wk = 20,160 per week

20,160 per week x 52 weeks/year = 1,048,320 per year

Appendix of Additional Source Information

1. “Woodstock bans smart meters”, Hudson Valley 1, by George Pattison, June 1, 2013
<https://hudsonvalleyone.com/2013/06/01/woodstock-bans-smart-meters/>
2. Stop Smart Meters! FAQ’s <https://stopsmartmeters.org/frequently-asked-questions/faq-smart-meter-basics/> (accessed September 3, 2019)
3. AMR Compared with Smart Meters <https://www.thehealthyhomeeconomist.com/amr-compared-with-smart-meters/> (accessed September 3, 2019)
4. World Health Research **European Academy of Environmental Medicine (EUROPAEM)** Guidelines for the Prevention, Diagnosis and Treatment of EMF-Related Health Problems and Illnesses. *Source (publisher link):* <https://www.degruyter.com/view/j/reveh.ahead-of-print/reveh-2016-0011/reveh-2016-0011.xml> Download of full paper [here](#).
5. http://svec.coopwebbuilder2.com/sites/svec/files/ItronProducts-RFRegulations_WhitePaper.pdf (accessed Sept 3, 2019).
6. Smart meter health complaints <http://emfsafetynetwork.org/smart-meters/smart-meter-health-complaints/>
7. EMF Project at WHO <https://www.who.int/peh-emf/project/mapnatreps/en/>
8. IARC Classifies Radiofrequency Electromagnetic Fields as Possibly Carcinogenic to Humans. International Agency for Research on Cancer, 2011. Press Release No. 208, May 31, 2011.
9. French court orders power company to replace smart meters over health fears, dated August 4, 2019
<https://www.facebook.com/ElectromagneticEcocide/photos/a.286417442234954/338976996978998/?type=3&theater&ifg=1>
10. “We tested Popular Cellphones for radio frequency. Now the FCC is investigating” Chicago Tribune, Sam Roe, dated August 21, 2019.
<https://www.chicagotribune.com/investigations/ct-cell-phone-radiation-testing-20190821-72qgu4nzlfda5kyuhteieh4da-story.html>
11. Seattle’s Smart Meter Project Lacks Protections for Privacy, May 26, 2017,
<https://www.aclu-wa.org/news/seattle%E2%80%99s-smart-meter-project-lacks-protections-privacy>
12. Seattle City Council adopts nation’s strongest law to protect utility customer personal data, August 6, 2018, <https://www.aclu-wa.org/news/seattle-city-council-adopts-nation%E2%80%99s-strongest-law-protect-utility-customer-personal-data>

13. Privacy Legislation HB 368 Smart Meter Customer Rights.
<https://www.acluohio.org/archives/legislation/2013-2014-hb-368>
14. Smart Meters: How Will They Affect Your Privacy? <https://stopsmartmeters.org/wp-content/uploads/2012/02/smart-meters-ACLU-hawaii.pdf> accessed September 3, 2019.
15. “Smart Meters Safety Debate Returning to Maine’s Top Court” Press Herald, by Kevin Miller, November 2, 2015, <https://www.pressherald.com/2015/11/02/smart-meters-safety-debate-returning-to-maines-top-court/>
16. Opt Out Chart dated January 10, 2019 source:
<http://www.stopsmartmetersbc.com/metersgrid/smart-meter-opt-out-options-and-fees/>
17. Bill Information- History H.B. 311, Regular Session 2019-2020, An Act amending Title 66 (Public Utilities) of the Pennsylvania Consolidated Statutes in restructuring of electric utility industry, further providing for duties of electric distribution companies.
https://www.legis.state.pa.us/cfdocs/billInfo/bill_history.cfm?year=2019&sind=0&body=H&type=B&bn=311
18. January 13, 2012 Memorandum to the County of Santa Cruz Board of Supervisors from Poki Stewart Namkung, M.D., M.P.H., Public Health Division re: Health Risks Associated with Smart Meters.
19. December 13, 2006 Letter from Department of the Army to Donald Friedman, re: FOIA request and accompanying article “Bioeffects of Selected Nonlethal Weapons. (18 pages).
20. Radiofrequency/Microwave Radiation Biological Effects and Safety Standards: A Review, Scott M. Bolen, June 1988 (28 pages).
21. 5G: Great risk for EU, U.S. and International Health! Compelling Evidence for Eight Distinct Types of Great Harm Caused by Electromagnetic Field (EMF) Exposures and the Mechanism that Causes Them, Martin L. Pall, from 5GSummit, May 17, 2018.
22. Testimony of Martin L. Pall, to Massachusetts Statehouse, June 20, 2017: accessible at: <https://www.youtube.com/watch?v=9qfJyzD4j7c>
23. Bio initiative Report 2012, with 2014 – 2019 updates BioInitiative Working Group 20; <https://bioinitiative.org/table-of-contents/> available for download.

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Judith D. Hendin

v.

Metropolitan Edison Company

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C-2018-3003324

**TESTIMONY OF
JUDITH HENDIN - SUPPLEMENT**

**WITNESS STATEMENT ON BEHALF OF COMPLAINANT
JUDITH HENDIN**

1 Q. Do you want to say more about the effects that you experienced from the
2 previous smart meter? [BEGIN HIGHLY CONFIDENTIAL]

3 A. [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
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Confidential

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[END HIGHLY CONFIDENTIAL]

NON-CONFIDENTIAL VERSION

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Judith D. Hendin

v.

Metropolitan Edison Company

:
:
:
:
:

C-2018-3003324.

**TESTIMONY OF
WILLIAM G. KRACHT**

NON-CONFIDENTIAL VERSION

**WITNESS STATEMENT ON BEHALF OF COMPLAINANT
JUDITH HENDIN**

Public

1 **Q. Please state your name and address.**

2 A. My name is William G. Kracht. My address is 5724 Clymer Rd., Quakertown,
3 PA 18951.

4 **Q. What is your occupation?**

5 A. I am a Board Certified physician in both Family Medicine and Integrative
6 Medicine.

7 **Q. What is your educational background?**

8 A. I received a BS in Pre-medicine with an honors degree in religious studies from
9 Pennsylvania State University and a Doctor of Osteopathy degree from
10 Philadelphia College of Osteopathic Medicine. My main practice involves family
11 medicine with areas of special competence in integrative and environmental
12 medicine. I have been treating patients post-residency since 1991. See my resume
13 attached as WK-1 for details.

14 **Q. Are you involved with any professional organizations?**

15 A. Yes, with many. The ones I am active with are the American Academy of Family
16 Physicians (AAFP), the American Academy of Environmental Medicine (AAEM)
17 and the American College of Osteopathic Family Physicians (ACOFP).

18 **Q. Have you ever offered testimony before the Pennsylvania Public Utility
19 Commission as a witness?**

20 A. No.

21 **Q. What is the purpose of your testimony?**

22 A. I have been asked to provide testimony as a treating physician of Ms. Hendin
23 regarding my treatment of her, including for Electromagnetic hypersensitivity and

Public

24 co-morbid chemical intolerance syndrome. As an active member of the American
25 Academy of Environmental Medicine since 1986, I am well acquainted with the
26 diagnosis and management of these syndromes.

27 **Q:** Where do you practice?

28 **A:** Woodlands Healing Research Center, 5724 Clymer Rd., Quakertown, PA 18951

29 **Q:** How do you know the Plaintiff, Ms. Judith Hendin?

30 **A:** Ms. Hendin has been a patient for many years at my same practice since her initial
31 visit with me on May 16, 2001.

32 **Q:** How long have you treated Ms. Hendin?

33 **A:** I have treated Ms. Hendin for almost 18 consecutive years as her primary
34 physician attending to both her health maintenance care and illness management.

35 **Q:** How did you become aware of Ms. Hendin's sensitivity to electro magnetic fields?

36 **A:** She called our office on August 24, 2012 to report that she was experiencing
37 symptoms after a UGI smart meter was installed. The medical record documentation by
38 one of our clinical staff members reflected that the Ms. Hendin reporting having an allergic
39 reaction to the Smart meter in her home residence and was requesting a letter of medical
40 necessity.

41 **Q:** Are you aware of any tests that are available to determine whether someone has
42 sensitivity to electromagnetic fields?

43 **A:** No. Based on the information gathered by my office, and the request of my long-
44 time patient, we drafted the requested medical necessity opt out letter to UGI, supporting
45 Ms. Hendin's request to have that smart meter removed. It was not necessary to examine

Public

46 the patient because she was not requesting a prescription but rather the opportunity to
47 avoid exposure, consistent with her course of care.

48 **Q:** Would you have conducted any tests to confirm that the symptoms that Ms.
49 Hendin was experiencing?

50 **A:** Because there is no known diagnostic test for electromagnetic sensitivity, I would
51 not have conducted any specific testing in this regard.

52 **Q:** Did you have any follow up examinations of Ms. Hendin since 2012? [BEGIN HIGHLY CONFIDENTIAL]

53 **A:** 

54

55

56

57

58 meter and other items that were emitting EMF's. [END HIGHLY CONFIDENTIAL]

59 **Q:** What experience do you have in treating patients with responses to EMF
60 exposure?

61 **A:** I have been treating allergic conditions since 1991 as an active duty Air Force
62 physician. Since joining my current medical practice in 1995, I have actively treated
63 numerous patients many allergic conditions including allergy to dust molds and pollens,
64 food allergies, chemical and electromagnetic sensitivities. This medical approach is the
65 basis of environmental medicine.

66 **Q:** Did you know whether her symptoms remained after the UGI smart meter was
67 removed? [BEGIN HIGHLY CONFIDENTIAL]

Public

68

A:

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[END HIGHLY CONFIDENTIAL]

77

Q: Are you familiar with Ms. Hendin's profession?

78

A: Yes.

79

Q: Did her profession or the distance that she lived from the office affect the decision to issue the Medical Necessity Letter?

80

81

A: Yes, both did.

82

Q: Have you worked with Ms. Hendin with respect to other EMF sensitivity issues?

83

A: Yes.

84

Q: Did you advise her of any steps that she could take to limit exposure to EMFs?

85

A: Yes. We have discussed obtaining an EMF assessment of her residence, and removal of items that emit EMF's. In this regard, I wrote a letter on June 29, 2013 that she not be exposed to airline security screening machines that emit EMF's. We have also discussed ambient volatile organic chemical and other chemical avoidance measures in both her home residence in public places.

86

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90

Q: Are you aware of steps that Ms. Hendin took to limit exposure to EMFs?

Public

91 A: Yes. She has been very compliant in implementing the above stated avoidance
92 measures.

93 Q: What have you learned about EMF exposure and sensitivity?

94 A: I have learned that patients are adversely impacted by electromagnetic frequency
95 and radiofrequency fields in their home and public environment and as a result, are
96 becoming more electromagnetically sensitive. Although not all people are affected in the
97 same manner, clearly there is a subset of individuals who are significantly affected by
98 prolonged exposures of low level EMF's or short exposures of high level EMF's. It is
99 important to consider a patient's total electromagnetic exposure in assessing their
100 diagnosis and treatment plan. This observation is affirmed in the American Academy of
101 Environmental Medicine's 2012 position paper on electromagnetic and radiofrequency
102 exposure, a copy of which is attached here as Exhibit WK-2.

103 Q: Are you aware of any other incidents in which Ms. Hendin reported symptoms
104 from EMF exposure?

105 A: Yes. While in the process of removing items from her home residence that emit
106 EMF's, she discovered that she would repeatedly become symptomatic while in certain
107 places of her kitchen. After much detective work, she discovered that the stove clock
108 was emitting EMF's and once removed, her symptoms resolved.

109 In addition, while at a Newark Airport security check point on October 24, 2018,
110 she was placed in close proximity between two baggage x-ray machines for a prolonged
111 period of time (roughly 15-20 minutes), resulting in symptoms of dizziness and
112 presyncope. These symptoms quickly resolved after being removed from the area of the
113 x-ray machines.

Public

114 **Q. Does this complete your direct testimony?**

115 A. Yes, it does. I offer these opinions to a reasonable degree of medical and
116 scientific certainty. As more information becomes available from Ms. Hendin or Met-Ed
117 regarding this case through discovery or other means, it may be necessary to supplement
118 my testimony. I reserve the right to supplement my testimony at any time during the
119 course of this proceeding.

Curriculum Vitae

Updated: January 18, 2019

Current Position

6/95-present

Family & Integrative Medicine, Private Practice
President, International Healing Ministries, 501(c)3
Practice Manager, Woodlands Healing Research Center
5724 Clymer Rd, Quakertown, PA 18951
(215) 536-1890 Fax: (215) 529-9034
Email: wkracht@woodmed.com
NPI: 1336146943

Personal

Date of Birth: February 1962
Place of Birth: Philadelphia, PA
Marital Status: Married (Terri M. Kracht)
Children: Taylor Marie, Zachariah William & Laurel Nicole
Home Residence: East Rockhill Township, PA

Specialty

Family Medicine
Integrative Medicine

Board Certification

2/2015-12/31/2023
(Initial Cert. 2015) Diplomat, American Board of Integrative Medicine
(member, American Board of Physician Specialties) #15-90852
6/30/2012-12/31/2019
(2012 Initial Cert.) Diplomat, American Board of Integrative Holistic Medicine
2015-2025 (Recert)
(Initial Cert.1991) Diplomat, American Board of Family Medicine,
ID# 69905
10/97-10/2000
(Expired) Diplomat, American Board of Quality Assurance & Utilization
Review Physicians, # 56302

State Licenses

10/31/2018-10/31/2020
(Initial 3/31/1995) Commonwealth of Pennsylvania Board of Osteopathic
Medicine: Osteopathic Physician & Surgeon
#OS-008772-L
(11/3/2018-12/31/2021)
(Initial 1995) Pennsylvania Drug Enforcement Agency
DEA # BK4442288
5/23/1996- 10/31/1999
(Expired) Commonwealth of Pennsylvania Board of Osteopathic
Medicine: Osteopathic Acupuncturist Supervisor
#OK-000023-L (Inactive)
08/90-12/95
(Expired) Florida Board of Osteopathic Medicine
#OS-0005942 (Inactive)

Education and Training

1984-1988

Professional Education:

Philadelphia College of Osteopathic Medicine
4190 City Ave, Phila PA 19131

Doctor of Osteopathy, (6th out of class of 210)

1980-1984

Undergraduate Education:

Pennsylvania State University
State College, PA

*Bachelor of Science in Pre-Medicine with High Distinction
and with Honors in Religious Studies*

Internship and Residency

07/88-6/91

Family Practice Residency

Eglin Regional Hospital/SGOFM

307 Boatner Rd, Eglin AFB, FL 32542

(American Osteopathic Association internship and residency approved).

Hospital Affiliations

10/95-present

Re-appointed:

5/01/2017-5/01/2019

Grandview Hospital

700 Lawn Ave

Sellersville, PA 18960

215-453-4841 (Medical Director Office)

Active Staff, Department of Family Practice

01/96-present

Re-appointed:

3/1/2018-2/28/2020

St. Luke's Quakertown Hospital

1021 Park Ave, PO Box 9003

Quakertown, PA 18951-9003

215-538-4500

Active Staff, Department of Family Practice

05/96-present

Re-appointed:

7/1/2014-6/30/2016

Lehigh Valley Hospital

1243 S. Cedar Crest Blvd

Allentown, PA 18103

610-402-9852 (Medical Director Office)

Active Staff, Department of Family Practice

Academic Appointments & Teaching Experience

02/2000 to present	Clinical Assistant Professor, Volunteer
7/1/2016-6/30/2019 (reappointment)	Department of Family Medicine Philadelphia College of Osteopathic Medicine
08/01/1998-present	Community Staff Preceptor, Family Practice Clinic Family Practice Residency Program Lehigh Valley Hospital, Allentown, PA
7/01/2007-present	Clinical Associate Professor of Family & Community Medicine Department of Family & Community Medicine Penn State College of Medicine
07/1999- 07/01/2004	Clinical Assistant Professor of Family & Community Medicine Department of Family & Community Medicine Penn State College of Medicine

Hospital Committee Assignments (Current)

09/95-present	Medicine Quality Management Committee, Grandview Hospital
05/2000-2013	Quality & Utiliz. Management Committee, Grandview Hospital

Continuing Medical Education Summary (Last Three Years)

2017	109 total hours.
2016	94.5 total hours.
2015	148 total hours.

Special Training & Other Programs:

5/2018-5/2020	Adult CPR, Re-certification
1996	Chelation Therapy Workshop American Academy for the Advancement in Medicine (ACAM) (17 Non-designated hours)
1995	Homeopathic Medicine for Acute/Chronic Illness Maricopa Medical Center, Phoenix, AZ (23 hours Category I)
1995	American Academy of Environmental Medicine (AAEM) Instructional Course Part II & III (38.5 hours Category I)
1994	American Academy of Environmental Medicine (AAEM) Instructional Course Part I & IV (40 hours Category I)
1994-1996	Mastering Homeopathy, Fravarti Kim O’Haire Basic Course, Advanced Case Analysis I, II & III (68 non-designated hours)
1991-1992	Advanced Cranial Sacral Therapy I & II, Upledger Institute
1988-1989	Cranial Sacral Therapy I & II, Upledger Institute

Membership in Professional Organizations

1986-present American Academy of Environmental Medicine (AAEM)
1988-present American Academy of Family Practice (AAFP)
1997-present AAFP Fellow Status
1995-present American College for the Advancement in Medicine (ACAM)
1997-present American College of Osteopathic Family Physicians (ACOFF)
5/98- present PA Osteopathic Medical Association (POMA) (AOA# 49021)
7/98-present International Association for Chronic Fatigue Syndrome (IACFS)
10/02-past American Academy of Otolaryngic Allergy, AAOA (Affiliate Member)
2005-present Pennsylvania Medical Society/Bucks Co Medical Society

Past Positions and Military Assignments

07/1993-06/1995 Family Practice Department
325th Medical Group/SGOFM
340 Magnolia Ave, Tyndall AFB, FL 32403
Included OB with C-Section Privileges

08/1994-11/1994 Deployed to Guantanamo Bay, Cuba
59th Air Transportable Hospital
Provided humanitarian medical care to Cuban refugees in field conditions.

08/1991-06/1993 Family Practice Department
39th Medical Group Hospital, Incirlik AB, Turkey
APO, AE 09824
Included OB Privileges

Appointments and Positions

07/01/2003-Present President, Beverly Hall Corporation
Director General, Church of Illumination
01/01/1999- Present President, International Healing Ministries (501(c)3)
Practice Manager, Woodlands Healing Research Center
Chair, Family Medicine Department, Grandview Hospital
04/01/2004-
09/11/2007
01/94-12/96 Assistant Medical Director
Foresight-America Foundation for Preconception Care
04/94-06/95 Medical Director, ACLS and NRC Continuing Education programs; 325th Medical Group Tyndall AFB, FL
10/91-06/93 Medical Officer of the Allergy and Immunization Clinic
39th TACG Hosp., Incirlik AB, Turkey
08/91-07/93 Assistant Director of Medical Education
39th TACG Hosp Incirlik AB, Turkey
09/92-07/93 Director of Emergency Services
39th TACG Hosp, Incirlik AB, Turkey
09/92-07/93 Physician Director of the
Emergency Medical Technician (EMT) Course

02/92-07/93 39th TACG Hosp, Incirlik AB, Turkey
Co-initiator and co-therapist for the Women Survivors of Sexual Abuse Group

03/92-07/93 39th TACG Hosp, Incirlik AB, Turkey
Officer of Primary Responsibility of the Family Practice Weight Loss Clinic

10/91-09/92 39th TACG Hosp, Incirlik AB, Turkey
Medical Liaison to the Weight Management Program

07/89-06/91 39th TACG Hosp, Incirlik AB, Turkey
Developed the Osteopathic Manipulation Clinic
Family Practice Department, Eglin AFB, FL

06/90-12/90 Chief Resident
Family Practice Residency, Eglin AFB, FL

Publications and Presentations

03/26/2011 “Integrative Medicine Overview”
Oral Presentation, GVH Integrative Medicine Conference

02/2008 “Complementary Therapies in Cancer Treatment”
Oral CME Presentation @ LVH Tumor Board

09/2006 “Complementary Therapies”
Oral CME Presentation @ POMA-3 Seminar, Skytop, PA

09/2005 “Complementary Therapies in Cancer”
Oral CME Presentation @ POMA-3 Seminar, Skytop, PA

09/12/2004 “Omega-3 Fatty Acids: An Evidence Based Review”
Oral CME Presentation @ POMA-3 Seminar, Hershey, PA

02/2003 “Computers in Medicine”
Oral CME Presentation at Grandview Hospital

06/18/2002 “Integrating Complementary and Alternative Medicine into Primary Care Practice”, Oral CME Presentation to Dept of Family Practice, LVH

07/23/2001 “Complementary and Alternative Medicine: Women’s Health”
Oral Presentation to Department of Family Practice, LVH

06/27/2000 “Nutritional & Phyto-pharmacologic Therapies- An Evidence Based Review”, Oral CME Presentation at Grandview Hospital

03/25/2000 Preconception Care: “Environmental Effects in Pregnancy”, “Genitourinary Infections” and “Natural Family Planning”
American Academy of Environmental Medicine, Kansas City, MO

02/24/2000 “A Critical Evaluation of Complementary and Alternative Medicine”
Oral Presentation to Hanover Hospital Steering Committee, Hanover PA

11/1999 “Complementary and Alternative Medicine: Cardiovascular Diseases”
Oral Presentation to the Heart Care Group; Sponsor: Merck

10/1999 “Complementary and Alternative Medicine: Women’s Health”
Oral CME Presentation to Department of OB/GYN, LVH

09/1999 “Complementary and Alternative Medicine: Can Consumers Go Too Far?” with Mark Young, M.D.
Video-Teleconference LVH, PSU and Hershey Med Center

02/1999 “A Critical Evaluation of Complementary and Alternative Medicine”;

- 1998 Oral CME Presentation at Grandview Hospital
 Contributing Consultant Editor to
Nurse's Handbook of Alternative & Complementary Therapies
 "Pharmacologic and biologic therapies" Springhouse Corp, 1998
- 10/1997 "Complementary and Alternative Therapies in Cancer"
 Oral CME Presentation at Grandview Hospital
- 01/1997 "Chronic Fatigue Syndrome, A Primary Care Approach"
 Oral CME Presentation at Grandview Hospital
- 1996 Contributing author to *It's Only Natural*
 Gerald E. Poesnecker ND, DC, Harold E. Buttram, MD &
 William G. Kracht, DO. Humanitarian Publishing Co, 1996
- 1992 "Group B Beta-Hemolytic Streptococcal Infectious Arthritis In
 Childhood: Case Report and Review of the Literature"
 Oral presentation, XVII th Annual USAFP Scientific Assembly

Honors, Awards and Decorations

- 1994-1995 325th Medical Group Hospital nominee for the
 Air Force Physician of the Year, 1994-1995
- 07/93-06/95 Air Force Commendation Medal, Second Oak Leaf Cluster
 For outstanding achievement at the 325th Medical Group
 Hospital, Tyndall AFB, FL
- 08/94-11/94 Air Force Achievement Medal & Humanitarian Medal
 For outstanding service during deployment to Guantanamo Bay,
 Cuba, providing humanitarian medical care to Cuban refugees
- 1993-1994 Biographical Citation in the 11th Edition of
 WHO'S WHO IN THE WORLD, 1993-1994
- 08/91-06/93 Air Force Commendation Medal, First Oak Leaf Cluster
 For outstanding achievement at
 39th Medical Group Hospital Incirlik AB, Turkey
- 07/88-06/91 Air Force Commendation Medal for outstanding achievement at
 Eglin Regional Hospital, Eglin AFB, FL
- 07/90-06/91 OB/GYN Book Award for continued outstanding performance
 as a 3rd year resident, Family Practice Residency, Eglin AFB
- 07/88-06/90 OB/GYN Book Award for outstanding resident
 (1st and 2nd year) Family Practice Residency, Eglin AFB, FL
- 07/88-06/90 Pediatric Book Award for Outstanding Resident
 (1st and 2nd year) Family Practice Residency, Eglin AFB, FL
- 07/88-06/89 Internal Medicine Book Award for Outstanding Intern
 Family Practice Residency, Eglin AFB, FL
- 1983 Paul/David Wentroble Scholarship Award for the Outstanding
 Premedical Student at Pennsylvania State University
- 1977 Eagle Scout Award; Troop 503, Springfield, PA

Research Activities

- | | |
|--------------|---|
| 01/2006-2012 | Trial to Assess Chelation Therapy (TACT)
NHLBI/NCCAM |
| 05/2005-2006 | Integration of CAM Practices into Family Medicine
Robert Wood Johnson Medical School |
| 02/2003-2005 | Trial to Enhance Adherence to Multiple Guidelines (ULTRA)
Robert Wood Johnson Medical School |

Community Service

- | | |
|---------------|--|
| 2010-2016 | • Assistant Scout Master, Boy Scout Troop 215, Dublin, PA |
| 10/95-present | • Ordained Minister, Church of Illumination, Quakertown, PA |
| 2010 | • Guest Speaker, GVH Prestige Health: Integrative Medicine |
| 2006 | • Guest Speaker, GVH Prestige Health (CAM and Cancer) |
| 2005 | • Guest Speaker, Wellness Place Men's Roundtable |
| | • Guest Speaker, GVH Prestige Health (FMS) |
| | • Guest Speaker, LVH Cancer Support Program |
| 2002 | • Guest Speaker, Grandview Hospital's Women's Conference |
| | • Guest Speaker, Grandview Hospital's Prestige Health |
| 2001 | • Guest Speaker, Rotary Club of Quakertown |
| | • Guest Speaker, Lehigh Valley Hospital, Dorothy Morgan Cancer Support Education Program |
| 2000 | • Guest Speaker, Grandview Hospital's Women's Conference |
| | • Grandview Hospital Community Skin Cancer Screening |
| | • Guest Speaker, Grandview Hospital Prestige Senior Health |
| | • Guest Speaker, Lehigh Valley Hospital, Dorothy Morgan Cancer Support Education Program |
| 1999 | • Guest Speaker, Sterling Cottage |
| | • Guest Speaker, Grandview Hospital's Women's Conference |
| | • Guest Speaker, Upper Bucks Chamber of Commerce |
| | • Guest Speaker, Grandview Hospital Cardiac Rehab Program |
| | • Grandview Hospital Community Skin Cancer Screening |
| | • Heart Care Group CHF Community Outreach Program |
| | • Guest Speaker, Grandview Hospital FMS Support Group |
| 1998 | • Guest Speaker, Breast Cancer Awareness, Cornerstone Gym |
| | • Grandview Hospital Community Skin Cancer Screening |
| | • Guest Speaker, Sertoma Club, Quakertown |
| 1997 | • Grandview Hospital Community Skin Cancer Screening |
| | • Better Breather's Group, Grandview Hospital |
| | • Quakertown Mother's Group |
| | • GVH Women's Health Program |

References

Jane Ferry, M.D.
Medical Director, Grandview Hospital
700 Lawn Ave
Sellersville, PA 18960
(215)- 453-4841

Grant Greenberg, MD
Director, Family Practice Residency
Lehigh Valley Hospital Family Health Center
17th and Chew St, PO Box 7017
Allentown, PA 18105-7017
(610)-402-4955



American Academy of Environmental Medicine

6505 E Central • Ste 296 • Wichita, KS 67206
Tel: (316) 684-5500 • Fax: (316) 684-5709
www.aeonline.org

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A.L. Barrier, M.D., FAAO-HNS
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Ann Arbor, MI 48103

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Liberty, MO 64068

Executive Director

De Rodgers Fox

American Academy of Environmental Medicine Recommendations Regarding Electromagnetic and Radiofrequency Exposure

Physicians of the American Academy of Environmental Medicine recognize that patients are being adversely impacted by electromagnetic frequency (EMF) and radiofrequency (RF) fields and are becoming more electromagnetically sensitive.

The AAEM recommends that physicians consider patients' total electromagnetic exposure in their diagnosis and treatment, as well as recognition that electromagnetic and radiofrequency field exposure may be an underlying cause of a patient's disease process.

Based on double-blinded, placebo controlled research in humans,¹ medical conditions and disabilities that would more than likely benefit from avoiding electromagnetic and radiofrequency exposure include, but are not limited to:

- Neurological conditions such as paresthesias, somnolence, cephalgia, dizziness, unconsciousness, depression
- Musculoskeletal effects including pain, muscle tightness, spasm, fibrillation
- Heart disease and vascular effects including arrhythmia, tachycardia, flushing, edema
- Pulmonary conditions including chest tightness, dyspnea, decreased pulmonary function
- Gastrointestinal conditions including nausea, belching
- Ocular (burning)
- Oral (pressure in ears, tooth pain)
- Dermal (itching, burning, pain)
- Autonomic nervous system dysfunction (dysautonomia).

Based on numerous studies showing harmful biological effects from EMF and RF exposure, medical conditions and disabilities that would more than likely benefit from avoiding exposure include, but are not limited to:

- Neurodegenerative diseases (Parkinson's Disease, Alzheimer's Disease, and Amyotrophic Lateral Sclerosis).²⁻⁶
- Neurological conditions (Headaches, depression, sleep disruption, fatigue, dizziness, tremors, autonomic nervous system dysfunction, decreased memory, attention deficit disorder, anxiety, visual disruption).⁷⁻¹⁰
- Fetal abnormalities and pregnancy.^{11,12}
- Genetic defects and cancer.^{2,3,13-19}
- Liver disease and genitourinary disease.^{12,20}

Because Smart Meters produce Radiofrequency emissions, it is recommended that patients with the above conditions and disabilities be accommodated to protect their health. The AAEM recommends: that no Smart Meters be on these patients' homes, that Smart Meters be removed within a reasonable distance of patients' homes depending on the patients' perception and/or symptoms, and that no collection meters be placed near patients' homes depending on patients' perception and/or symptoms.

Submitted by: Amy L. Dean, DO and William J. Rea, MD

Approved July 12, 2012 by the Executive Committee of the American Academy of Environmental Medicine

Bibliography

1. Rea WJ, Pan Y, Fenyves EJ, et al. Electromagnetic field sensitivity. *Journal of Bioelectricity*. 1991; 10(1 &2): 243-256.
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3. Zhao T, Zou S, Knapp P. Exposure to cell phone radiation up-regulates apoptosis genes in primary cultures of neurons and astrocytes. *Neurosci Lett*. 2007; 412(1): 34-38.
4. Nittby H, Brun A, Eberhardt J, et al. Increased blood-brain barrier permeability in mammalian brain 7 days after exposure to the radiation from a GSM-900 mobile phone. *Pathophysiology*. 2009; 16: 103-112.
5. Awad SM, Hassan NS. Health Risks of electromagnetic radiation from mobile phone on brain of rats. *J. Appl. Sci. Res*. 2008; 4(12): 1994-2000.
6. Leszczynski D, Joenvaara S. Non-thermal activation of the hsp27/p38MAPK stress pathway by mobile phone radiation in human endothelial cells: Molecular mechanism for cancer - and blood-brain barrier - related effects. *Differentiation*. 2002; 70: 120-129.
7. Santini R, Santini P, Danze JM, et al. Study of the health of people living in the vicinity of mobile phone base stations: 1. Influences of distance and sex. *Pathol Biol*. 2002; 50: 369-373.
8. Abdel-Rassoul G, Abou El-Fateh O, Abou Salem M, et al. Neurobehavioral effects among inhabitants around mobile phone base stations. *Neurotox*. 2007; 28(2): 434-440.
9. Hutter HP, Moshammer H, Wallner P, Kundi M. Subjective symptoms, sleeping problems, and cognitive performance in subjects living near mobile phone base stations. *Occup. Environ. Med*. 2006; 63: 307-313.

10. Kolodynski AA, Kolodynska VV. Motor and psychological functions of school children living in the area of the Skrunda Radio Location Station in Latvia. *Sci. Total Environ.* 1996; 180: 87-93.
11. Magras IN, Xenos TD. RF radiation-induced changes in the prenatal development of mice. *Bioelectromagnetics.* 1997; 18:455-461.
12. Ingole IV, Ghosh SK. Cell phone radiation and developing tissues in chick embryo - a light microscopic study of kidneys. *J. Anat. Soc. India.* 2006; 55(2): 19-23.
13. Phillips JL, Singh NP, Lai H. Electromagnetic fields and DNA damage. *Pathophysiology.* 2009; 16: 79-88.
14. Ruediger HW. Genotoxic effects of radiofrequency electromagnetic fields. *Pathophysiology.* 2009; 16(2): 89-102.
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BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Judith D. Hendin

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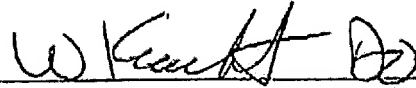
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Metropolitan Edison Company

VERIFICATION

I, William D. Kracht, hereby state that the facts above set forth in my Witness Statement are true and correct and that I expect to be able to testify as to the same at the hearing held in this matter. I understand that the statement herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to sworn falsification to authorities).



William D. Kracht, D.O.
5724 Clymer Road
Quakertown, PA 18951

Date: January 18 2019