



BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

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In the Matter of the Application of San Diego Gas & Electric Company (U 902 E) for Adoption of its Smart Grid Deployment Plan	A.11-06-006 (Filed June 6, 2011)
In the Matter of the Application of Pacific Gas and Electric Company for Adoption of its Smart Grid Deployment Plan U 39 E	A.11-06-029 (Filed June 30, 2011)
Application of Southern California Edison Company (U 338-E) for Approval of its Smart Grid Deployment Plan	A. 11-07-001 (Filed July 1, 2011)

DECLARATION OF SAMUEL MILHAM M.D., IN SUPPORT OF THE SOUTHERN CALIFORNIANS FOR WIRED SOLUTIONS TO SMART METERS PROTEST OF THE APPLICATION OF SAN DIEGO GAS & ELECTRIC COMPANY (U 902 E) FOR ADOPTION OF ITS SMART GRID DEPLOYMENT PLAN, THE APPLICATION OF PACIFIC GAS AND ELECTRIC COMPANY FOR ADOPTION OF ITS SMART GRID DEPLOYMENT PLAN U 39 E, AND THE APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) FOR APPROVAL OF ITS SMART GRID DEPLOYMENT PLAN

I Samuel Milham M.D. declare:

I am a medical epidemiologist with an MD degree, an MPH degree (Master of Public Health and am board qualified in public health. I hold a medical license in Washington State, and have been medically licensed in Hawaii and New York State. I have over 100 peer-reviewed publications, a recent book titled *Dirty Electricity* and a website: www.sammilham.com. I was employed at the New York State Health Department, at the University of Hawaii School of Public Health and Medical School, and at the Washington State Health Department. My expertise is in occupational epidemiology, especially the health effects of exposure to electromagnetic fields. I was the first to show that electrical workers have increased mortality from certain cancers. I

have been an expert witness in courts in California, Washington , Hawaii, Pennsylvania, Florida, Virginia and Canada.

1. I have studied electromagnetic field (EMF) health effects for 30 years. I was the first to report increased cancer in electrical workers. My recent work with high frequency voltage transients (dirty electricity) is applicable to smart meters, since they all contain switching power supplies which interrupt current flow and send dirty electricity into the electrical distribution system of homes, the utility neutral return and the earth. The transients are a potent universal carcinogen.
2. The non thermal radio frequency (RF) and transient emission from cell towers, and smart meters are similar, since many times, they share the same transmission frequencies. A recent Brazilian study shows that cancer deaths are increased closer to cell tower bases, and decrease with distance from the towers. Studies relating to cell towers are directly relevant in assessing the similar, if not more damaging emission from the wireless smart grid and wireless smart meters. EMF intensity decreases with distance from the source. Smart meters are very close to people in their homes.
 - a. The World Health Organization has recently classified EMF as a class 2B carcinogen. EMF, including microwaves have been shown to damage DNA, change reaction time , alter the blood-brain barrier, alter calcium flow from cells, alter intercellular communication, effect the ECG, and EEG, reduce sperm counts, and fertility, and effect immune function.
3. Because the results are reproducibly observed and links to pathology cannot be excluded, the precautionary principle should be in force in the implementation of this “wireless new smart grid and wireless smart meter technology within society.
4. Not just citizens will be at risk of damage, but also other species are at jeopardy including all animals and plants are in danger of irreparable harm.
5. Many wireless smart meters are close to beds, kitchens, playrooms, and similar locations. The wireless systems are never off and exposure is not voluntary,

involuntarily exposing citizens to never before experienced concentrations of sources and doses of non ionizing radiation at close range.

6. I have reviewed the FCC guidelines cited by the utilities as support for the safety of this “unprecedented wireless smart grid. These guidelines are based on prevention of thermal injury. The current federal and state guidelines in America and California, specifically DO NOT protect the public from harm.
7. It should be noted that American standard of exposure are higher than those set in the European countries.
8. In light of the growing body of scientific evidence implicating cell phone use with brain tumors, the European Parliament said, “The limits on exposure to electromagnetic fields [EMF’s] which have been set for the general public is obsolete.”
9. The European Parliament “was greatly concerned at the Bioinitiative international reportⁱ (Exhibit G- true and correct copy of 28 page summary of Bioinitiative Report ATTACH) concerning EMFs, which summarizes over 1500 studies on the topic and in its conclusions to the health risks posed by emissions from mobile-telephony devices such as mobile telephones, UMTS, WiFi, WiMax, and Bluetooth, and also DECT landline telephone.
10. Now the Parliament is again- and more firmly, seriously-repeating in the form of WHO’s recent cancer classification.
11. Prompted by all these new findings and reports a group of international experts recently published a very important paper, The Seletun Scientific Statement (2011). Among its points are:
 1. Low-intensity (non thermal) bioeffects and adverse health effects are demonstrated at levels significantly below existing exposure standards.
 2. *****INCNIRP/WHO and IEEE/FCC public safety limits are INADEQUATE and obsolete with respect to prolonged, low intensity exposures.**

3. New, biologically-based public exposure standards are urgently needed to protect public health world. (*And this expert declarant might add “and specifically in California where a massive roll-out of wireless smart grid and wireless smart meters are dangerously in high density and close proximately to citizens living spaces exposing citizens to emissions 24 hrs a day 7 days a week).*
4. EMR exposure should be reduced now rather than waiting for, proof of harm before acting. It is not in the public interest to wait.
5. There is a need for mandatory pre-market assessments of emissions and risks before deployment of new wireless technologies. There should be convincing evidence that products do not cause health harm before marketing.
6. The use of telephone lines (land-lines) or fiber optic cables for Smart Grid type energy conservation infrastructure is recommended. Utilities should choose options that do not create new, community-wide exposures from wireless components of Smart Grid-type projects. Future health risks from prolonged or repetitive wireless exposures of SmarGrid-type systems may be avoided by using fiber-optic cable. Energy conservation is endorsed but not the risk of exposing millions of families in their homes to a new, involuntary source of wireless radiofrequency radiation, the effects of which on their health is not yet known.

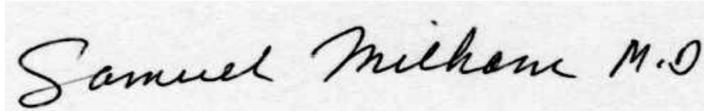
12. Therefore, policy makers immediately should strictly control exposure by defining biologically-based maximal exposure guidelines, also taking into account long-term, non-thermal effects, and including especially vulnerable groups, such as the elderly, the ill, the genetically and/or immunologically challenged, children and fetuses, and persons with the functional impairment electrophersensitivity, which in Sweden is a fully recognized functional impairment, and therefore receives an annual governmental disability subsidy.

13. In conclusion, the wireless Smart Grid and wireless smart meters are being forced on citizens in California, and many other states in America

and other countries, causing involuntary exposure of millions to billions of human beings to pulsed microwave radiation.

14. Studies regarding cell towers, cell phones are analogous to emission of the Wireless Smart Grid and wireless smart meters. In fact it is more likely the emissions from the wireless smart meters are stronger, because they are closer to people) than cell phones and cell towers.
15. The proliferation of the wireless smart grid and wireless smart meters should be immediately prohibited until safety studies have been completed and reasonable safety guidelines for non ionizing radiation emitting devices has been determined.
16. I declare under penalty of perjury under the laws of California that if called to testify I could competently testify thereto, and the matters stated in this declaration are true and correct to the best of my knowledge except those matters stated on information and belief., and to those matters I believe them to be true.

Date: August 2, 2011

A handwritten signature in black ink on a light-colored background. The signature reads "Samuel Milham M.D." in a cursive script.

By: _____
Samuel Milham M.D.
