

Editor: News and Features. Immediate Release. Contact Don Hillman, Ph.D., East Lansing, MI. (517) 351-9561, FAX (517) 351-1944, e-mail [donagl@aol.com](mailto:donagl@aol.com). *Shocking News* is a non-profit source of information concerning electric and magnetic fields in relation to human and animal health.

### **Couple Asks State To Reduce Cancer Risk from Electrical Pollution On Power Lines**

East Lansing, MI (03/12/04). Donald and Mary Hillman of East Lansing, Michigan, have filed a complaint with the Michigan Public Service Commission and with members of the Michigan Legislature, asking the State to monitor the quality of electricity delivered to homes, schools, and workplaces by electric utilities. The Hillmans base their request on measurements of electric and magnetic fields (EMF) coming through the wall into their home and those of their children and grandchildren, some of whom have been diagnosed with cancer.

Don is a Ph.D. and Professor Emeritus of Michigan State University. He together with several scientists: Dave Stetzer, an Industrial Electrician in Blair, Wisconsin; Dr. Martin Graham, Doctor of Electrical Engineering at the University of California, Berkeley; Charles Goeke, M.S., Data Analyst at Mason, MI; Kurt Mathson, an Electrical Engineer who worked for Stetzer Electric; and Drs. Harold Van Horn and Charles Wilcox, Animal Scientists and Statisticians at the University of Florida, Gainesville, were co-investigators for the study "Power Quality Effects on Milk Production". Their findings were presented at International Agricultural Engineering and Dairy Science meetings in the U.S. and Canada in 2003. They found that animal health and production were drastically affected by electric and magnetic fields on dairy farms.

Results from the study led to a study of articles published in medical and bioelectrical engineering scientific journals and caused them to conclude that there is sufficient evidence that the rate of cancer increases as the EMF intensity (milliGauss or microTesla) and time (hours per day) of exposure to EMF increases. Reports indicate that EMF proliferates the growth of cancer cells by impairing the immune system of victims. EMF has also been shown to reduce melatonin, and EMF has been demonstrated to directly affect serotonin receptor sites in the brain. Melatonin is an important cancer inhibiting and detoxifying hormone in the blood.; and serotonin is the most important neurotransmitter of the central nervous system; both are produced in the pineal gland located in the brain.

The 75-year old couple has provided the PSC with a notebook containing more than 75 articles pertaining to electrical pollution and its relationship to the number of cases of cancer. Included are studies in Denver, Colorado, Ontario Canada, and study of a 6000 employee sample of five utilities totaling 139,000 employees throughout the United States. The Denver Study was first published by Nancy Wertheimer and Ed Leeper in 1979 and has been repeated six times. Three of the repeats showed a positive relationship between High Current Configuration (HCC) electrical wires and the number of cancer cases. A new study of 81 of the same homes referred to as "Back to Denver" was published in the journal, *Bioelectromagnetics*, in 2002, showing that the amount (amperage) of 180-Hertz current and the third, fifth, and seventh harmonics in the living-sleeping rooms were significantly related to both the wire code configurations and the incidence of cancer deaths as reported by Nancy and Ed 25 years earlier. (The harmonics are multiples of the fundamental 60-

Hertz frequency produced by the generator). The source of electrical pollution was followed from the utility pole neutral wire down-ground (primary neutral-to-earth), where the current and harmonics were induced onto water lines and brought into homes where it was related to EMF measurements and cancer.

The Hillmans found that you don't have to be living near a high-voltage transmission line, since the same neutral wire connects transmission lines to distribution lines and brings the polluted current into homes, schools, workplaces, and cow barns. This is typical of the grounded-Y distribution system used throughout the United States. Utilities using a Delta system which returns the neutral current to its source through wires rather than the earth have less problem with "uncontrolled electricity" the Hillmans learned.

The Electric Power Research Institute (EPRI) estimated that by 2000 half of all electricity used in the United States would be passing through electronic devices such as variable speed drives, televisions, computers, monitors, telephones, internet, wireless equipment, etc. These devices produce nonlinear loads which result in the harmonics on the power line's neutral. They can be removed by placing filters in the circuits or by installing shielded transformers between the utility neutral and the customer neutral.

The first objective for the appeal to the state was to reduce the incidence of cancer, suffering of victims, and heartache of loved ones. However, the reduction of cancer incidence by ten percent would also reduce health insurance costs more than enough to pay for the cost of monitoring and correcting the cancer-carrying currents on power lines. Michigan BlueCross-BlueShield pays out more than \$500 million per year for hospitalization and medical care of cancer patients.

The Michigan Departments of Agriculture and Health monitor the quality of food sold from farms and retail establishments regularly, and the Courts prosecute those not complying with the law. Electricity pervades the environment of every home, school, and workplace but no one is monitoring the quality of electricity delivered by the utilities. Since "dirty electricity" proliferates cancer the state should establish safe standards, monitor compliance, and prosecute violators to clean up the power supply, just as they are required to protect the people from foreign invaders.

Utilities claim that it costs too much to make the necessary corrections to their delivery system. That claim is not valid. After 30-years of denying any responsibility, enough is enough! Further delays, by appointing "Blue-Ribbon Expert Study Committees" which take years to study a problem and then offer no solutions, would be an insult to the suffering and deceased," the Hillmans said.

Their complaint and documentation to the Michigan PSC, Docket U-13934, with recommendations to the Legislature to establish safe levels and systematic monitoring levels of EMF carried into homes, schools, and workplaces is accessible from the website [www.pq.goeke.net](http://www.pq.goeke.net). Their Appeal to Fellow Citizens to help Remove Cancer-Promoting EMFs from Power Lines, Homes, Schools, and Workplaces is also available at the same website or by contacting *Shocking News*, 750 Berkshire Lane, East Lansing (Phone 517-351-9561) or by e-mail: [donag1@aol.com](mailto:donag1@aol.com)