Comments to FCC on Notice of Inquiry, ET Docket No. 13-84

I have a neurological degenerative disease that I live with. I want to tell you about how devastating Smart Meters at my apartment were to my health.

I have made many lifestyle adjustments to accommodate this disease. One change has been to not use my cell phone or wii fii too much in a given week because it will start to flare up my nervous system. Even when my cell phone is connected it only gives off about 1 mW/m2 when in use. My computer gives off about 3 to 5 mW/m2 but only when actively connected to Wii Fii. If I do not connect these devices they give off nothing and a normal living environment returns to a healthy level of about 0.2 milligauss of low frequency EMF and .002 mW/m2 of high frequency RF, so I only use them for a very limited amount of time. I would say I have some sort of "EMF sensitivity," but I don't. The fact of the matter is that being around too much EMF stimulates my disease and makes it active for whatever neurologic reason. This has only been a minor inconvenience as I can easily control my exposure to the EMF by limiting my use of these devices. If I need to use the phone or computer more, I can use broadband internet and a land line, easily solving the dilemma.

Recently I moved into a new apartment without realizing that there were three smart meters approximately 10 feet from my bedroom window. Within days I was having major relapse of neurologic symptoms. After about 4 days I got out my EMF meter and measured the apartment. I had never seen such high EMF readings ever. It was at least 8 milligauss constantly in my bedroom and living room. I had never seen more than 1, maybe 2 milligauss ever, anywhere inside or outside of a living space. It has been recommended by physicians to those with my condition to sleep in a room that is 0.2 milligauss or less. I found the excessively high EMF readings throughout my apartment and followed them down to where I discovered the Smart Meters. In fact, my building has about 18 smart meters on it all of which are within 50 feet of my bedroom. Each Smart Meter was giving off anywhere from 15 to 22 milligauss of EMF. I have never seen anything like it. The three smart meters outside my window each blasted their 22 milligauss of EMF which didn't dissipate for over 20 feet.

Consumers and DTE Energy claim that "it doesn't give off more electricity than a text." This may be true as measured with a high frequency RF meter that would measure cell phones. But these smart meters are somehow generating huge amounts of low frequency dirty EMF as measured by an EMF field tester and its blasting into peoples living spaces. They give off excessively more EMF than any other wireless technology or appliance anywhere near a living space, and they have no problem putting three of them 10 feet from bedroom windows and 18 or more on a building . This is easily tested by anyone with a RF meter and EMF field tester.

Electric companies are denying the health risks even though Smart Meters clearly make **sick people sicker** because healthy people can apparently live with them. My heart goes out to those elderly in nursing homes and retirement communities suffering from a variety of neurologic conditions that now have 18 smart meters attached to their buildings which will hurt them continuously so some mindless energy company can make money by overusing a technology before ever testing it for safety. Some diseases are likely to be vulnerable to this technology include Parkinson's, MS, Fibromyalgia, Heart Arrhythmias, Neurologic Lyme, and any other disease which creates neurologic fragility.

DTE and Consumer Energy are now entering properties without consent and putting these Smart Meters on people's homes. This is devastating to neurologically vulnerable people's health and needs to stop.

I am also attaching guidelines that are recommended by physicians for my disease and I should not be forced to live outside of these guidelines because of health reasons.

Thank you for your time,

Melissa White

SAFE LIVING Technologies Inc.

Creating *Healthy* Living Spaces

PO Box 72, Morriston, ON, Canada N0B 2C0 › Tel 519.240.8735 Fax 519.821.5724
support@slt.co › **www.slt.co**

RADIOFREQUENCY / MICROWAVE EXPOSURE GUIDELINES

(High Frequency Electromagnetic Waves)

1› BUILDING BIOLOGY PRECAUTIONARY GUIDELINES (SBM-2008) For Sleeping Areas

Power density in microwatt	No Concern	Slight Concern	Severe Concern	Extreme Concern
per square meter µW/m²	< 0.1	0.1-10	10 - 1000	> 1000
per square cm µW/cm²	< 0.000,01	0.000,01 - 0.001	0.001 - 0.1	> 0.1

2› BIOINITIATIVE REPORT PERCAUTIONARY GUIDELINES (2007) www.bioinitiative.org/

Dr. Martin Blank - Columbia University
Biologically Based Precautionary Levels 1,000 µW/m² or 0.1 µW/cm²

3› CANADA AND USA GOVERNMENT GUIDELINES (1999)

In Canada, guidelines for Radio Frequency Wave exposure lay under the jurisdiction of Health Canada. Safety code 6 was developed in 1999 and offers federal guidelines for safe RF exposure levels. These limits are in the range of **2,000,000 to 10,000,000 µW/m² or 200 to 1000 µW/cm²** and are based solely on the short term thermal effects or the heating of body tissue. Adverse biological effects have been documented at levels far below Safety Code 6 guidelines. No Canadian biological exposure guidelines exist for long term exposure to low level Radio Frequency Radiation. This also holds true for the USA.

AC MAGNETIC & AC ELECTRIC FIELD EXPOSURE GUIDELINES

(Low Frequency Electromagnetic Fields ELF, VLF)

1› BUILDING BIOLOGY EVALUATION GUIDELINES (SBM-2008) For Sleeping Areas

AC Magnetic - Flux Density	No Concern	Slight Concern	Severe Concern	Extreme Concern
in nanotesla nT	< 20	20-100	100 - 500	> 500
in milligauss mG	< 0.2	0.2-1	1-5	> 5

AC Electric Field strength with ground potential in volt per meterV/m	< 1	1-5	5 - 50	> 50
Body voltage with ground potential in millivolt mV	< 10	10-100	100 - 1000	> 1000
Field strength potential-free in volt per meterV/m	< 0.3	0.3-1.5	1.5 - 10	> 10

2› BIOINITIATIVE REPORT PERCAUTIONARY GUIDELINES (2007) www.bioinitiative.org/

Dr. Martin Blank - Columbia University
AC Magnetic Field Levels 1-2 mG / 100-200 nT
AC Electric Field Levels – Not Addressed in Report

3› CANADA AND USA GOVERNMENT GUIDELINES (1999)

In Canada, guidelines for EMF exposure lay under the jurisdiction of Health Canada. Health Canada has not independently established guidelines for magnetic field or electric field exposure. When pressed, they will state that Canada follows the International Commission on Non-Ionizing Radiation Protection "ICNIRP" guidelines of 830 mG or 83,000 nT (Magnetic Field) or 5000 V/m (Electric Field) for a 24-hr period. Since these guidelines are based on short-term acute exposure we still do not have guidelines that protect the public from long-term low level exposure, which is the case with the distribution of electricity. Associations based on epidemiological studies and cause-effect relationships based on laboratory experiments suggests that exposure to magnetic and electric fields should be thousands of times lower.

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