

January 23<sup>rd</sup>, 2013

Peachland City Council  
5806 Beach Ave,  
Peachland, B.C.

Att: Mayor & City Council

Re: BC Hydro's Wireless Smart Meter Program is Illegal and Violating Municipal Land Use

Dear Mayor & Council:

I was asked by concerned residents to represent the missing science in Health Canada's Safety Code 6 that link the frequencies to adverse health effects. Governments, BC Hydro, BC Utilities Commission, Industry Canada and the Canadian Wireless Telecommunications Association all have to comply with Safety Code 6. **When it comes to towers, compliance with Safety Code 6 is mandatory and a condition of license by Industry Canada.** Safety Code 6 uses the same science standards as the FCC and other international governing bodies.

Safety Code 6 determines the limits of human exposure to radio frequency EMFs and even though science standards are based on decades of scientific literature, safety standards admit science is missing linking the frequencies to adverse health effects. Missing science doesn't change the fact Safety Code 6 states **“the predominant health effect to be avoided is the unintentional stimulation of tissue as is the heat effect”**. Intentional stimulation of tissue is medical imaging in a controlled environment in an intended position of use.



This picture is the Specific Absorption Rate used to determine exposure limits. The red arrow shows the position of the cell phone and the white arrow highlights the hole in the test model where liquid that simulates tissue is poured. The black wire inside the head is the temperature probe measuring for heat effect. This is the science used globally and because smart meters or wireless computers aren't held against the head like a cell phone, 24/7 exposure is considered safe for everyone including children and pregnant women.

The missing mechanisms linking the frequencies to health effects was reported by expert witness **at the request** of Canadian Parliaments Standing Committee and changed the safety of wireless applications. The Specific Absorption Rate didn't include smart meter routers, relays, tower antennas and other wireless infrastructure radiating large geographical areas to communicate with wireless devices. Health effects didn't incorporate the bio electricity of humans, their vulnerability and left out millions of frequencies in a frequency equation. When you incorporate the errors or omissions in safety, you have causality, biological plausibility and reproducibility which links the frequencies to adverse health effects.

Tissue is being stimulated and can cause nerve and muscle depolarization. That depolarization by an EMF trigger affects the nervous system, hormonal system and immune systems. The frequencies hitting people from head to toe will have health effects and the dangers of the frequencies is now lectured in medical education for education credits required for ongoing medical licensing. The education program is applicable in North America and wireless exposure needs to be considered in medical diagnosis.

## **Land Use Issues**

I have seen and heard frustration from municipalities on wireless deployment. Municipalities have been told they have no jurisdiction in smart meter deployment or tower construction. The BC Government has mandated the meter program for their Energy Plan and Industry Canada has jurisdiction on tower installation for the wireless industry.

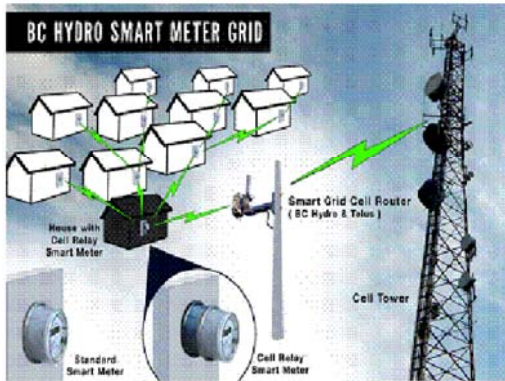
Here is my submission to the BC Utilities Commission on the Fortis BC application supporting a suspension of the utility's application to install wireless smart meters. Wireless smart meters won't address or assist the province's Energy Plan plus the frequencies are illegal as applied. [http://www.bcuc.com/Documents/Proceedings/2012/DOC\\_32604\\_C19-6\\_WKCC-Submission-RDCK-Nelson-Creston\\_Suspension.pdf](http://www.bcuc.com/Documents/Proceedings/2012/DOC_32604_C19-6_WKCC-Submission-RDCK-Nelson-Creston_Suspension.pdf)

If I wanted to build a gun range on a lot in your municipality, my application would be denied. The damage to buildings, infrastructure, danger to people, etc would be illegal and bring liabilities. Tower construction requires the same consideration and is the municipality's jurisdiction. The tower construction and land use isn't addressing or considering the number of antennas, the direction and coverage areas of the EMF guns hitting buildings, infrastructure, businesses, people, pets, ecosystems, etc. Texas utility Oncor admitted through their lawyer smart meter routers covered an average of 5 sq. Miles, and the collectors 125 sq. Miles. Fortis BC as an example plans to radiate 17,000 sq. Km to communicate with wireless smart meters without considering what the EMFs hit or interact with. Those frequencies will be illegal.

There are real electrical reasons we don't blast frequencies around with reckless abandon. You have to consider what the EMFs can interact with. This blanket coverage with RF EMFs that go through buildings causes real problems including to the buildings violating Part 4 of the BC Building Code under vibration. 900 MHz frequencies going through structures and fire separations will cause molecules of material to polarize(change direction 180 degrees) 1.8 billion times per second. The higher the power density, the more intense these molecular earthquakes. Here is what that looks like at 60 Hz in an insured industrial inspection. [http://www.thermoguy.com/pdfs/Electrical\\_Frequency\\_Problem\\_in\\_Lumbermill.pdf](http://www.thermoguy.com/pdfs/Electrical_Frequency_Problem_in_Lumbermill.pdf)

It is well known how UV affects exposed materials. These are subtle but dangerous frequencies going through materials. Andrew Michrowski(PHD) has done extensive work on accelerated corrosion of infrastructure and, making it more dangerous, is inducing electrical charges in volatile areas that could create fires or explosions. <http://media.withtank.com/42391c31ef.pdf>

Here is a diagram of BC Hydro smart grid showing what they didn't incorporate into safety.



Pacemaker recipients are told to stay out of electromagnetic fields: however, the area coverage will take the EMFs right into their homes. That is separate of BC Hydro using unqualified installers with a few hours training to swap electrical meters. Changing a meter under load on a meter base that has never been serviced is very dangerous and further compromises building owners. BC Hydro blames home owners for the fires because the homeowner owns the meter base when the electrical reality is the meter swap caused the fire.

[http://www.thermoguy.com/pdfs/Smart\\_Meter\\_Fires\\_and\\_Installation.pdf](http://www.thermoguy.com/pdfs/Smart_Meter_Fires_and_Installation.pdf)

Peachland and other municipalities are going to be absorbing costs and liabilities that are not theirs. As well BC Hydro isn't incorporating health, building or infrastructure costs and haven't considered the agricultural, forestry, groundwater, fish spawning, economic or ecosystem damage. The frequencies are illegal as applied and the peer reviewed science substantiating that is electricity, engineering, medical education.

Health Canada is presently revising Safety Code 6 and has retained the Royal Society as an independent body. The United States have a draft bill H.R. 6358 where congress members are asking for a revision of the scientifically ridiculous Specific Absorption Rate test.

Your residents have valid concerns for themselves and their building investment. The complete science wasn't represented to municipalities. My opinion is not singular. The margin of error is zero. The peer reviewed science qualifying the EMF interactions is called electricity. To generate electricity requires an electromagnetic field (EMF) and a conductor. In BC Hydro's as well as other utilities application, they are blanketing areas with EMFs and human/animal, vegetable/mineral kingdom – almost everything are the conductors.

Our electrical grid is 60 Hz frequencies so they can communicate with 60 Hz appliances and devices. There radio frequencies at 900 million Hz are not electrically compatible with **any** biological frequencies they are interacting with.

Sincerely,

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