



October 26th , 2012

Ms. Erica Hamilton
Commission Secretary
British Columbia Utilities Commission
Sixth Floor - 900 Howe Street
Vancouver, BC V6Z 2N3

Via email: Commission.secretary@bcuc.com

**Re: Intervener Information Request No. 1
Fortis BC Application for a Certificate of Public Convenience and Necessity
for the Advanced Metering Infrastructure Project No. 3698682**

Dear Ms Hamilton:

The West Kootenay Concerned Citizens wishes FortisBC to respond to the following questions and information requests:

**Fortis Document Titled B-1
1.1 Overview of the Project**

Line 6 & 7 on Page 6 say the AMI system is primarily driven by the opportunity to efficiently manage electrical usage and costs for the benefit of the customer as well as the company.

Although buildings and their energy use are designed with Regional Climatic Data supplied through BC Building Code, buildings as well as their energy use are signed off as compliant with BC Building Code without verification. The AMI system is not catching the heat loss and associated energy consumption with heat loss from buildings. Here are residential, commercial buildings, schools, etc in the infrared spectrum in Fortis's area wasting energy and producing more GHG. <http://www.thermoguy.com/blog/index.php?itemid=105>

Solar radiation is causing buildings to grossly exceed BC Building Code in the summer and thousands of watts per hour per building is wasted reacting to the symptoms of solar radiation. Air conditioning is in fact refrigeration requiring a big electrical load responding to the exterior being radiated. Here is the rule and not the exception of building performance in Fortis's area as well as others. <http://www.thermoguy.com/blog/index.php?itemid=88> The AMI system is not addressing this massive energy waste. Shade or low e finishes would.

1.3 Proposed Regulatory Process

Compliance with Safety Code 6 is a requirement of the AMI technology and the technology does not comply with Safety Code 6.

Safety Code 6 is the same science standards as the FCC and other international organizations but admits mechanisms were missing linking the frequencies to adverse health effects. Stimulation of tissue is to be avoided as is the heat effect. Stimulation of tissue is limited to medical imaging in controlled environments with an intended position of use and protective clothing to attenuate(eliminate) the frequencies from hitting other parts of the body.

The missing mechanisms were reported to Health Canada and by expert witness through Canadian Parliament's Standing Committee October 26th of 2010.

Health Canada uses the Specific Absorption Rate which admits energy is being absorbed, the meters were only considered as an end use device. The rest of the wireless infrastructure wasn't considered in a radiation equation as the frequencies hit people from head to toe. Humans were considered to be tissue heating and not vulnerable intricate electrical systems with their own electricity. As a result millions or billions of frequencies of biological systems were left out of a frequency equation.

January, 2011 the dangers of the frequencies were lectured in medical academia for education credits required for medical licensing and applicable in North America.

Fortis has a 60 Hz electrical grid to communicate with 60 Hz appliances or the appliances wouldn't run safely or efficiently. 900 Mhz of the AMI system isn't compatible with an 8 Hz brain wave.

- 1:** What is the geographical area coverage of each AMI wireless component in the AMI system including cell tower antennas and satellites?
- 2:** What are the attenuation co-efficients and frequencies of biology hit by the AMI equipment in the coverage areas?
- 3:** What are the attenuation co-efficients of building materials and are the frequencies going inside buildings?
- 4:** The frequencies going through structures and fire separations are causing the building materials at molecular levels to vibrate 180 degrees at twice the speed of the frequencies. How is the AMI program addressing high speed vibrations of structural components and fire separations at billions of times per second?
- 5:** Doesn't that compromise Part 4 of BC Building Code under Vibration?

6: How have the biological considerations of bees, birds and pollinators been considered in the AMI program? Bees and birds use a magnetic field, not a high speed electromagnetic field.

7: BC Medical Plan puts in pacemakers and tells the recipients to stay out of electromagnetic fields. The AMI program is taking the EMF to the recipients where the pacemaker will be electromagnetically induced.

8: How many frequencies are there with all human biological systems.

9: Were the AMI meters and associated equipment tested for accuracy in a full load electromagnetic field?

10: With all the energy waste not being caught or addressed, how is this meeting GHG reduction targets?

11: Blasting frequencies over large areas will induce charges in volatile areas, how can Fortis ensure there won't be a static charge setting off explosions or starting fires?

Here is a link showing non compliance of the frequencies as applied including testimony for the Texas Senate. BC Hydro has to comply with Safety Code 6 as does the BCUC and compliance is mandatory and a condition of license for the Canadian Wireless Telecommunication's Industry. Hard wiring is the only alternative, there are reasons we wire. Admitting there is a low power density means you are in the circuit. The frequencies associated with the AMI are illegal as applied. <http://www.thermoguy.com/blog/index.php?itemid=103>

Sincerely,

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