

Ex C6-4

November 8, 2012

British Columbia Utilities Commission  
Sixth Floor, 900 Howe Street, Box 250  
Vancouver, BC, V6Z 2N3  
Attn: Erica Hamilton, Commission Secretary

[commission.secretary@bcuc.com](mailto:commission.secretary@bcuc.com)

Dear Madam:

Re: FortisBC Inc. (FBC), Application for a Certificate of Public Convenience and Necessity (CPCN) for the Advanced Metering Infrastructure (AMI) Project  
Project No. 698682; Order G-105-12

Given that:

- Bill 17-2010, the Clean Energy Act, mandated that all homes/dwellings in BC will be fitted with Smart Meters;
- Fortis BC proposes to use wireless technology incorporating never-before-tried and extremely controversial pulsed millisecond-long bursts of microwave emissions to control, manage and maintain their envisaged “meshed-grid” concept in residential neighborhoods of unsuspecting, uninformed, trusting and completely defenseless men, women and children, not to mention all other living things, including plants, insects, fish, birds, animals, bees, etc.;
- No national government on Earth has conducted its own science-based studies of the low-level, long-term, non-thermal biological effects of EMR on humans and other life forms to ensure such radiation is safe;
- Scientists do not yet know what – if any – level of EMR is safe for humans on a continuous basis 24/7/365 in perpetuity;
- In 1975, the U.S. Defence Intelligence Agency (DIA) warned all of its personnel about the risk from low-level microwave radiation: illnesses ranging from microwave sickness” (flu-like symptoms, depression and suicidal tendencies) to cancer and leukemia;
- In 1979, both the U.S. NIOSH (National Institute for Occupational Safety and Health) and OSHA (Occupational Safety and Health Agency) recommended that “precautionary measures” be taken to protect workers from unwarranted exposure to EMR.
- In 1990, the U.S. Environmental Protection Agency (EPA) in a draft report to the U.S. Government recommended that EMR should be classified a **2B (“Possible”)** carcinogen. The report was immediately “dumped on” by the military, the telecom industry and software development firms, causing the EPA to withdraw the report only to release it later, but without the recommendation. EPA’s funding was subsequently drastically reduced and responsibility for EMR was transferred to the FCC – who have closer ties to the military and industry;

- In 1993, the U.S. Food and Drug Administration (FDA) issued a Memo in which it stated that: "Data strongly suggests that microwaves from cell phones can promote cancer" (obtained under the Freedom of Information Act).
- In 2011, the Council of Europe (representing **47** countries and **800-million people**) called for a ban on Wi-Fi and cell phones from all schools because they have "potentially harmful effects on humans."
- BC's electric utilities could – and should - have selected fiber optic cable, an established, proven, safe, reliable, durable, robust, faster and secure technology that poses no threat to anyone's health, privacy or personal safety and is impervious to radio frequency jamming and other such interferences. It also is less vulnerable to acts of mischief; terrorist attacks, cyber attacks; solar storms, solar flares and electrical storms; and even against some electronic warfare weapons attacks such as electromagnetic pulses (EMPs), High Altitude Auroral Research Program ("HAARP"), etc.;
- In May, 2011, the World Health Organization (WHO) classified EMR (from any emitter – including smart meters) a Class **2B** ("**Possible**") carcinogen;
- In May of 2011, both the Council of Europe (**47 countries and 800-million people**) and the European Parliament (**27 countries and 500-million people**) examined the issue thoroughly and came to the same conclusion regarding the "need to protect citizens from electromagnetic radiation, especially pregnant women, newborn babies and children."
- Dr. Annie Sasco, Ph.D., (Epidemiology) with three Harvard degrees, the former Director of WHO's IARC (International Agency for Research on Cancer) for **22 years**, has stated publicly that: "Contrary to Industry claims, there is CONCRETE evidence that EMR from wireless technology and cell phones causes cancer."
- Numerous other world-class independent scientists say that EMR should be classified at least a 2A ("**Probable**") if not a **Definite** cause of cancer.
- Contrary to what Fortis BC claims, Prof. Daniel Hirsch, Ph.D., a nuclear physicist at the U. of C., Santa Cruz campus, and the Public Health Department of Santa Cruz California, have shown that Smart Meters emit from 45 to 450 times more "whole body radiation" than does a cell phone, depending on one's distance from the smart meter.  
**And Smart Meters can't be shut off!**
- Notwithstanding all of the above, the BC Government continues to allow the electric utilities to install smart meters, which have two (2) wireless radio transmitter, receiver and antenna circuits, each of which will emit Class **2B** toxic millisecond-long sharp pulses of microwave radiation: 1) the LAN radio, operating on 900 MHz, and 2) the "ZigBee" radio, operating on 2.4 GHz;
- Contrary to what Fortis BC claims, LAN transmitters transmit Class **2B** pulsed millisecond-long signals **continuously 24/7/365**, as was admitted by executives of **Silver Spring Networks** to the California Public Utilities Commission (CPUC) on Sept.

15, 2011. The executives also admitted that 90% of all transmissions were strictly for “Network Management purposes” - even during periods when there was no customer-related activity. (Silver Spring Networks supplies the IPv6-based smart grid communications network, demand response, demand automation, utility management software etc used in Smart Meters by PG&E and other utilities in California and elsewhere);

- Contrary to what Fortis BC says, a Smart Meter’s LAN transmitter emits on average 14,000 pulses per day (every 6 seconds) up to 190,000 pulses per day (every 0.45 seconds), as was stated by PG & E in a California Court of Law!
- Conspicuously absent from Fortis BC’s website is any mention of the ZigBee radio transmitter, receiver and antenna circuit which, electric utilities everywhere envisage, will control 15-or-so “Smart” appliances. This means that eventually every home is expected to have **17-or-so** separate wireless transmitter/receiver/antenna circuits – all of which will emit their own Class **2B** millisecond-long sharp pulses of non-thermal microwave radiation at intervals 24/7/365 in perpetuity!
- In a fully-mature meshed-grid community of 5,000 homes, in which every home has the envisaged 15-or-so “Smart” appliances, all residents of that community will be subjected to the sharp millisecond-long pulses of non-thermal Class **2B** microwave radiation from **85,001-or-more** transmitters, including the 5,000 LANs each of which will radiate throughout the neighborhood - and beyond - for a distance of up to 3 km!
- Conspicuously absent from Fortis BC’s website is any mention, let alone an estimate, of the overall aggregate amount of EMR residents likely would be exposed to in a meshed-grid neighborhood 24/7/365;
- Fortis’ website chooses not to mention that whatever aggregate amount of EMR results from their community-wide meshed-grid network, that amount would be in addition to the ambient level of EMR already in the community from all of the other wireless devices, such as Wi-Fi routers, cell phones, cell phone towers, cordless phones, baby monitors, laptop computers, Tablets, iPads, Bluetooth, GPS, home security systems, etc.
- In a meshed-grid community, it would be absolutely pointless for individual home owners to Opt Out, as they would still be bathed by the blanket of radiation from all the other homes in that meshed-grid network.
- Smart Meters have never been tested by Underwriters Laboratory and proven to be safe (referring to the countless fires that have been experienced in virtually every jurisdiction in the world in which Smart Meters have been installed – for which no electric utility anywhere has acknowledged any culpability or accepted any financial responsibility);
- Insurance companies are not insuring Smart Meters for health-related claims;
- No country on Earth yet knows what is a “safe” level – if, in fact, there is one – for chronic exposure to low-level non-thermal, biological effects of EMR for pregnant

- women, embryos, children, the sick, elderly, and all other life forms including bees, animals, birds, insects, all sea life, plants, trees etc. on a 24/7/365 basis;
- Contrary to what Health Canada says, Canada's present "Exposure Limit" for the 2.4 GHz frequency range: **1000 uW/cm<sup>2</sup>** is one of the highest/most dangerous in the entire world!
  - The Bioinitiative Report 2007 urges all governments around the world to reduce their present "*Exposure Limits*" to **0.1 uW/cm<sup>2</sup>** – which, if adopted, would require Health Canada to lower our present "Limit" **10,000 times!**
  - Austria's Salzburg Health Dept. recommends Limits of **0.001 uW/cm<sup>2</sup>** for outdoors and **0.0001 uW/cm<sup>2</sup>** for indoor exposure; (i.e., **1 million to 10,000,000 times lower**/safer than Canada's current Safety Code 6 Exposure Limit)!

Given all of the above, the Citizens of those areas serviced by Fortis B.C. INC. request that the B.C. Utilities Commission deny outright approval of the installation of the Advanced Meter Infrastructure (AMI) program.

Yours sincerely,

Signature:

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