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Sent: Wednesday, February 6, 2013 2:18 PM
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Subject: RE: FortisBC Inc Advance Metering Infrastructure CPCN: Jerry Flynn's Answers

Mr. Shadrack,

It gives me great pleasure to answer your questions, which I have done below, in blue.

1. Mr Flynn, can you please explain why your experience with wireless communications qualifies you to critique FortisBC's Advance Meter Infrastructure CPCN application?

Answer: For 22 of my 26 years in Canada's military (Electronic Warfare and Signals Intelligence) I was a military expert in terms of knowing the vulnerabilities of - and how to defeat - any wireless radio system active anywhere on the RF spectrum. Any wireless system can easily be interfered with, disrupted, jammed or totally and quickly destroyed by any number of electronic warfare weapons currently in the possession of most major militaries of the world, as well as, I suspect, major international terrorist groups, such as Al Qaeda. All one has to do is Google: "Electronic Warfare Weapons." Even Iran has EMPs (electromagnetic pulsed weapons).

I personally am aware that countries such as China, Russia and the U.S. share a common attack doctrine which is: prior to launching a physical attack on another nation, they would commence their hostile actions by first launching all-out attacks by simultaneously employing massive cyber, Electronic Warfare and Directed Weapons attacks on the target country's critical infrastructure - before even a single bullet is fired! There could not be a more defenseless - nor more attractive - target than a country's electric power grid! All electronics would simply be incinerated - those weapons now exist!

Because I was formally trained in EMR, I understand the technology well and know what independent scientists around the world are saying about the dangers of any form of EMR. Having now researched this whole EMR subject thoroughly for the past two years, I fully appreciate that Canada's "Exposure Limits" are 10,000 times higher (more dangerous) than Austria's. Contrary to what Health Canada and all the electric utilities tell the public, EMR is not safe for any living thing, including humans.

2. Can you please, based on your experience in wireless communications, list the concerns you have about FortisBC's Advance Metering Infrastructure CPCN application? And could you please categorize those concerns in accordance with the issues identified in order G-177-12?

Answer: Where does one begin? Well, Fortis, like all other electric utilities is guilty of blatant dishonesty, deliberate deception, providing the public with disinformation, misinformation and complete falsehoods. For example, they **DON'T TELL** the public that:

- Smart Meters have never been subjected to *independent science-based testing* in any country in the world to determine if the microwave radiation they emit is safe to humans and other life forms;
- No scientist on Earth yet knows what level of EMR - if any - is safe to humans!
- In 1974, Stanford Research Institute declared **2.4 GHz** and **0.950 MHz** as being ***two of the most lethal*** frequencies of those tested;
- Referring to the above, every smart meter contains two (2) transmitter, receiver and antenna circuits (the LAN on 910 MHz and the ZigBee on 2.45 GHz)!
- Both transmitters emit millisecond-long pulses of toxic radiation;
- LAN transmitters emit from 14,000 (every 6 seconds) to 190,000 pulses (every 0.45 seconds) per day, contrary to what electric utilities claim;
- LAN transmitters radiate for up to **3 Km**, meaning each and every home in a meshed-network of from 500 to 5,000 homes will radiate - and be radiated by - every other home in the entire meshed-network!
- ZigBee transmitters radiate for approximately 250' (radius), meaning that in most neighborhoods, it will radiate next door neighbors (in all four directions);
- ZigBee transmitters have but one purpose: to control up to 15-or-so 'smart' appliances electric utilities everywhere envisage 'homes of tomorrow' having.
- Each 'Smart' appliances is fitted with its own **2.45 GHz**-compatible pulsing microwave transmitter, receiver and antenna circuit.
- Each meshed-network of homes has a "Collector" meter, which contains three (3) pulsing microwave transmitter, receiver and antenna circuits, the third being the WWAN (wireless wide area network) circuit which operates on either/or (but not both simultaneously) 850/1900 MHz.
- The function of the Collector meter is to relay all traffic - in both directions - between the utility and all 500-5,000 LANs in the community as well as all 7,500-75,000 'smart' appliances in the meshed-network.
- Meshed-network communities of 500 homes will contain upwards of **8,503** pulsing microwave transmitters, ***8001 of which will radiate on the same frequency as a microwave oven: 2.4 GHz!***
- Meshed-network communities of 5,000 homes will contain upwards of **85,003** pulsing microwave transmitters, ***80,001 of which will radiate on the same frequency as a microwave oven: 2.4 GHz!***
- Except for homes situated literally within line-of-sight of the Collector meter, all other transmissions - in both directions - must be relayed from house to house to house - possibly involving up to hundreds of other homes - before each and every communication is completed!
- All of this relaying of data - in both directions - means those homes serving as relay points will be subjected to enormous (probably incalculable) amounts of additional EMR, which no utility seems to know or be concerned about.

My research has shown that no utility anywhere has any idea what the ***total or aggregate amount of EMR a meshed-network*** will add to the ambient level of EMR that was already in a community prior to the smart meter/meshed-network being installed.

Excluding the incalculable amounts of dangerous EMR mentioned above, utilities also seem to be ignorant of - or unconcerned about - the fact that non-industry scientists claim the EMR in Earth's environment has increased at least 1,000,000 times in just the last decade!

From the customer's perspective, Smart Meters will prove to be very expensive, considering Smart Meter software will require periodic and regular upgrades; as will the radios - all of which will occur at the customers' expense.

The life expectancy of a Smart Meter is but a fraction of that of an analogue meter, and the replacement costs are 10 times as much!

Smart Meters are very hackable, as evidenced by the 179,000 customer accounts which were "accessed" in Toronto's Ontario Hydro.

Many fires in virtually every jurisdiction have been attributed to smart meters, yet not one utility anywhere that I have seen has admitted culpability or accepted financial responsibility. Invariably, the utility blames the fires on the customer's meter base or on the age of the customer's house wiring.

The BioInitiative Report - 2012 (released to the public on Jan. 7, 2013) states categorically that **EMR is a human carcinogen** - not a "Possible" or a "Probable," but a "**human carcinogen**."

No Smart Meter jurisdiction that I have seen anywhere on the Internet indicates a single case of a customer's monthly bills being reduced. On the contrary, many report their bills doubling, tripling, quadrupling and even more!

As far back as 1990, the U.S. EPA attempted to categorize EMR a "Possible" carcinogen and, since then, at least six other U.S. federal agencies (NIOSH, OSHA, EPA, FDA, NIEHS, U.S. Consumer Affairs Commission) have all expressed their concern of the dangers caused by EMR, some of which also classified EMR/EMF a Possible carcinogen.

Even Canada's own NRC, in 2010, called our current Exposure Limits '**dangerous and outdated**' as they are based only on the thermal effects of EMR.

From the customer's point of view, there is not one single benefit to be had from a Smart Meter. On the contrary, wireless Smart Meters are a terribly dangerous device - from a health, personal privacy, personal security and national security perspective.

Smart Meters are neither UL-tested nor CSA-approved, so what does that do to a home owner's household insurance policy?

Lloyd's of London and Swiss RE, two of the world's largest insurance companies will not insure against health claims attributed to low level, long term EMR.

3. From the information and evidence filed by yourself it would appear that you have some concerns about EMR. Have you always had those same concerns and what is it that triggered your current concerns with regard FortisBC's current Advance Metering Infrastructure CPCN application?
Answer. I, like most Canadians, had always presumed I was being protected by Health Canada and that all wireless devices on the market today had been duly tested and found to be safe. It was not until my daughter, who is married with three children, called me more than two years ago to ask me that fateful question: "Dad, do you know anything about Smart Meters?" I replied that I did not, but for her I would "look into it." Once I realized that Fortis, like most other electric utilities, planned to use wireless microwave radio, I became concerned. Then, when I learned about the ZigBee transmitter and that all utilities envisaged each home having upwards of 15 'smart' appliances, all of which would be wireless, I became very concerned. And I'm even more concerned today, for the utilities don't seem to realize the minefield in which they're determined to play. And the victims here are/will be the poor ignorant, unsuspecting, defenseless public who are being experimented on - with the obvious blessings of the Federal and Provincial governments.

Respectfully submitted,

