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Sent: Wednesday, January 2, 2013 5:46 PM
To: Commission Secretary BCUC:EX
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Attachments: My 01-02-2013 Ltr to BCUC re Fortis application.docx

Having been an internationally-respected military officer who specialized in wireless radio communications for more than 22 years, I felt obliged to write the attached letter, in the hope it will help BCUC, other Interveners and, I suspect, Fortis BC, to realize what the REAL issue is here. And to date I have received five (5) massive, 3-ring, 4" binders which, altogether, measure 20" across and must contain some several thousands of legally-written pages!

The issue is NOT nearly as simple and benign as Fortis - or the other electric utilities - would have us believe. The REAL issue is electromagnetic radiation (EMR), which the World Health Organization classified a 2B ("Possible") carcinogen in May of 2011, and the question is: How much more chronic, pulsing, low level non-thermal or biologic EMR mankind and other life forms can stand being added to the dense 'electro-smog' we're already living in? That is THE issue! And the evidence that EMR is harmful to humans and all other life forms is staggering ... and growing by the day!

As I have studied this whole subject matter thoroughly for more than two years now and consider myself well-informed as to what world-class, non-industry funded scientists and leading health experts say about EMR, I once again am respectfully asking for an opportunity to make a formal power point presentation to BCUC, Fortis BC, all Interveners and any others who are interested in hearing the unvarnished truth about EMR, smart meters and meshed-grid networks. I have evidence to support anything I say in my presentation.

Insofar as Fortis' quest to install smart meters in their jurisdiction is concerned, one must first understand EMR ... and its history ... then our environment as it is today ... before one should even deign to discuss meshed-grid networks - which will add from **8,503 to 85,003 pulsing microwave transmitters** into a single community. And you can't shut smart meters off!

In the meantime, I'll happily answer any questions regarding the content of my letter. Thank you.

Yours truly,
Jerry Flynn

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January 2, 2013

Email: commission.secretary@bcuc.com

Ms Erica Hamilton
Commission Secretary
British Columbia Utilities Commission
Sixth Floor, 900 Howe Street, Box 20
Vancouver, BC, V6Z 2N3

Dear Ms. Hamilton:

Fortis BC Inc., Application for a CPCN for the Advanced Metering Infrastructure Project

In Canada today, it is evident that our federal government is complicit with provincial governments, the telecom and wireless industries, and the electric utilities in orchestrating an historic national plan to construct a wireless electric power grid across Canada which, ultimately, will be integrated into a CAN-US grid, if not a North American grid. The backbone of such a national grid is the electric utilities' vaunted 'Smart Meters' which, as we speak, are literally being forced upon an unsuspecting, uninformed and utterly defenseless public across the country. It is most disconcerting to witness Canada's national and provincial governments openly collude with the industrial complex to dupe, deceive and misinform the public into believing this technology is perfectly safe and, indeed, is even desirable and highly beneficial to them!

In their haste to reap large profits, government agencies, electric utilities and private sector companies are turning a blind eye to the potential permanent, far reaching consequences of the smart meter technology. Concerns are further raised when one realizes that Smart Meters have been exempted from requiring both Underwriters Laboratories' Safety Testing and Canadian Standards Association's approval, both of which are the norm for new products and technologies wanting access to the Canadian marketplace. Despite significant scientific evidence and mounting skepticism worldwide of the incalculable damage this technology will do, not only to the human population, but to other living species, consumers are being told that they have no choice but to accept the installation of these meters. Certainly here in B.C., electric utilities are guilty of trying to dupe the public with nothing but misinformation, disinformation and absolute flat-out untruths!

For the above reasons, I have never been more thankful in my life than I am today for the 26-plus years I spent in Canada's amalgam of what had been the Royal Canadian Navy which, sadly, became the "Sea" element in Prime Minister Trudeau's ill-conceived

Canadian Armed Forces.” In my career, I spent a total of 22-plus years in wireless radio communications, in which I distinguished myself as a military “Expert” in three separate environments involving the electromagnetic spectrum and wireless radio communications: Radio Warfare, “CAN-UK-US” Signals Intelligence, and in NATO’s Electronic Warfare community. I can say without fear of contradiction that the diversity of my experience (referring to the three separate environments) has never been duplicated by any other officer, regardless of rank in Canada’s armed forces! For this reason, I am able to recognize and fully understand the extraordinary, unprecedented dangers which our governments – and possibly even the industries themselves – either don’t know about or are choosing to ignore.

Before one can discuss Fortis’ proposed wireless microwave radio technology, BCUC needs to stop, step back and realize that our society is already awash in a seemingly endless array of wireless transmitting and receiving devices - all of which emit toxic electromagnetic radiation (EMR). On May, 2011, the World Health Organization (W.H.O.) classified EMR - all EMR, regardless of the emitter - a Class 2B (“Possible”) cause of cancer. That includes all of our present day devices, such as: AM and FM radio broadcast antennas, radars, cell phone towers, cell phones, Smart Phones, cordless phones, Wi-Fi routers, laptop computers, iPads, tablets, baby monitors, home security systems, Bluetooth, garage door openers, RFIDs, satellite radio and TV, microwave ovens, GPS satellites, Wi-Fi hot spots, Wi-Max, Tetra radio towers, X-rays, CT-Scans, MRIs, etc.

Tellingly, despite W.H.O.’s classification of EMR as a “Possible” carcinogen, in May of 2011, no provincial government has seen fit to rescind its own legislation which imposed “Possible” cancer-causing wireless Smart Meters on the public a year earlier, in 2010!

It is very important that BCUC realizes that Health Canada’s own Exposure Limits, reflected in their much maligned – and deservedly so – Safety Code 6, are amongst the highest/most dangerous in the world! And BCUC also needs to know that, like many – but not all – other countries of the world, Canada sets its “Exposure Limits” being mindful of what the W.H.O.’s Guidelines are. With that understanding, it is vital that BCUC realizes that there is evidence today that the person at the W.H.O. responsible for establishing the world’s Exposure Limits was in a conflict-of-interest situation for his entire 10-year tenure there (1996-2006)! It is now known that throughout his tenure, he’d been receiving \$150,000 a year from the telecom industry! This, of course, raises into serious question the relevancy of W.H.O.’s own very high (i.e., dangerous) Exposure Limits - which remain in force to this day! Surely, national governments will now give more credence to the Bioinitiative Report 2007 which urges all countries to immediately adopt an Exposure Limit of just 0.1 uW/cm² – as opposed to Canada’s present 1000 uW/cm² – the latter being 10,000 times higher (more dangerous)!

It is also very important that BCUC is aware of the crescendo of independent, world-class scientists who condemn the levels of EMR already in our environments today – before one begins to contemplate how much additional EMR Smart Meters and meshed-grid networks will foist upon our unsuspecting communities. A sampling of what non-industry related, world-class scientists say follows:

- “This is the biggest single technological experiment in human history.” [Professor Denis Henshaw; of the Human Radiation Effects Group at the HH Wills Physics Laboratory in Bristol.](#)
- “This is the largest technological experiment in the history of our species and we’re trying to bury our head in sand about the potential risks to cells, organs, reproduction, the immune system, behaviour, risks we still know next to nothing about.” [Joel Moskowitz, director of the Center for Family and Community Health at the University of California;](#)
- Electromagnetic pollution (EMFs or EMRs) may be the most significant form of pollution human activity has produced in this century.” [Dr. Andrew Weill, Director of the Center for Integrative Medicine of the College of Medicine, University of Arizona;](#)
- “Never before has humankind been exposed to such high amounts of this very disruptive energy, and effects are cumulative.” [Dr. Andrew Weill;](#)
- “We may be facing a looming epidemic of morbidity and mortality.” [Dr. Samuel Milham, a physician-epidemiologist specializing in public health;](#)
- “Despite the voices of industry-funded scientists saying otherwise, there is concrete evidence that mobiles, cell phones and wifi cause cancer in humans.” [Dr. Annie Sasco, Ph.D. \(former Director of WHO’s I.A.R.C. for 22 years\);](#)
- “A major health crisis looms that is only hastened through the extensive deployment of “smart grid” technology.” [Prof. James F. Tracy; Associate professor in the School of Communication and Multimedia Studies at Florida Atlantic University](#)
- The greatest polluting element in the earth’s environment is the proliferation of EMF“; [Dr. Robert O. Becker, twice nominated for Nobel prize; an orthopedic surgeon, pioneered research into the relationship between human physiology and electricity.](#)
- “This (EMR) is the greatest biomedical experiment in human history ever. We already know enough right now about the risks and dangers of wireless radiation to demand immediate precautionary action from those in government.” [The International Doctors’ Appeal, 2012; Supported by more than 1,000 physicians and 36,000 people worldwide.](#)
- “.... results did show that microwaves and cell-phone non-thermal radiation significantly damages DNA-strands and enhances significant repair rates in human cells.” [Dr Roti Roti, Professor of radiology at the Washington University](#)

School of Medicine, St Louis;

- "...there is very strong evidence that acute and chronic exposure to EMF and radiation enhances the risk of reproductive health problems and therefore exposures should be significantly reduced to reduce the risk." Dr. Neil Cherry, (1946 -2003) held the position of 'Professor' of Environmental Health at Lincoln University, New Zealand.
 - "This review shows that there is strong and robust evidence that chronic exposures to ELF/RF/MW fields across the spectrum, through strength, consistency, biological plausibility and many dose-response relationships, cause increased rates of Brain/CNS Cancer from residential and occupational exposures. There is no safe threshold because of the genotoxic nature of the biological mechanism. Dr. Neil Cherry.
http://www.neilcherry.com/documents/90_s2_EMR_Brain_cancer_paper09-02.pdf.

Not until BCUC has a good grasp of the above should they begin to discuss the merits of Fortis' application to install Smart Meters and meshed-grid networks in our present day communities. BCUC needs to understand that these 'meshed-grid' networks will add incalculable amounts of EMR to the 'Electro-Smog' already bathing our communities. BCUC needs to realize that Fortis BC does **NOT** tell the public, that:

- "meshed-grid" networks, as envisaged by them and electric utilities everywhere, will consist of 500 to 5,000 homes, each fitted with its own wireless Smart Meter;
- Each Smart Meter will have *two* wireless, pulsing microwave radio transmitter, receiver an antenna circuits: 1) a LAN transmitter (local area network) operating on 900 MHz, and 2) the "ZigBee" transmitter operating on 2.4 GHz (the same frequency on which microwave ovens operate)!
- *Pulsed* 2.4 GHz emissions, such as those emitted by all "ZigBee-associated" transmitters, are more harmful to human cells, DNA and organs than are the *continuous wave* 2.4 GHz emissions emitted by a microwave oven!
- The purpose of the LAN – which radiates for up to 3 Km – is to "connect" all the other LANs in the network together with the utility;
- The above statement means that each home in a meshed-grid network *will radiate – and be radiated by – each and every other home in that whole community!*
- LAN transmitters will be active (emitting toxic EMR) virtually non-stop, 24/7/365 in perpetuity – contrary to what the utilities claim (One has to try and imagine what amount of EMR each and every home – indeed, the entire community - will have to endure given the above two statements alone);
- The sole function of the ZigBee is to control the utility's envisaged 15-or-so "smart" appliances they expect 'homes of tomorrow' will have.
- Smart appliances are already available for sale in many major retail outlets, including Sears.

- Each and every 'smart' appliance has its own ZigBee-compatible wireless *pulsed* microwave radio transmitter, receiver and radio circuit – every one of which will operate on 2.4 GHz – the same frequency on which microwave ovens operate!
- ZigBee transmitters will radiate for distances up to 246 feet (radius);
- Every meshed-grid network has a "Collector" meter, whose function it is to relay all communications – in both directions - between the utility, all Smart Meter LANs and every 'smart' appliances in the community;
- Collector meters have three (3) pulsing M/W transmitters: 850/1900 MHz (only one of which can be used at one time), 900 MHz and 2.4 GHz!
- The Collector meter can be either pole-mounted or mounted on some poor, unsuspecting customer's home! One needs to try and imagine how much additional radiation this constantly-active 24/7/365 in perpetuity transmitter, receiver and antenna radio circuit will spew into a neighborhood – as well as into some unsuspecting person's home!
- To facilitate each and every communication between the utility and the LANs themselves and to each and every 'smart' appliance, numerous relays will have to occur, with the signals bouncing from house-to-house-to house – involving as many as 500 or more homes - before a transmission can be completed. This occurs for all traffic in both directions!
- It can be seen from the above that meshed-grid networks will introduce into communities of 500 homes upwards of 8,503 wireless, *pulsing* microwave transmitter, receiver and antenna circuits; and for 5,000 homes, that number increases to upwards of 85,003 transmitters!

The above is a realistic depiction of what a meshed-grid community would actually look like – and it is absolutely terrifying! Unlike tobacco, against which a non-smoker could close a door or shut a window to keep the fumes out, one cannot escape from EMR. Plus you can't smell it, can't touch it, can't hear it, and can't see it. Yet it's everywhere!

Neither Fortis nor any other electric utility divulges any of this information because they don't want the public to know it, for fear the obscene profits they envision will evaporate overnight!.

The irony with EMR, though, is that it respects no one's privacy: once unleashed into a community, this toxic radiation will permeate everyone's home, regardless of one's station in life. EMR does not respect government nor industry officials – it will harm most of us all equally! But we won't know the extent of the damage it will do, nor what the full cost of such a sick diabolical experiment will be, for generations to come.

In closing, I respectfully ask BCUC to reflect on the fact that more than **1.104 Billion people** in the Council of Europe (representing 47 countries and 800-million people), plus the governments of Switzerland (pop. 8,000,000), France (pop. 63-million), Germany (pop. 82-million), Russia (pop. 143-million) and Israel (pop. 8-million) are all warning against unnecessary exposure to wireless signals and recommend preferential use of wired technology. <http://www.electricalpollution.com/FundFiberNOTWireless.html>

And, lastly, the Seletun Scientific Panel urges governments to make explicit that the burden of proof of safety rests with the producers and providers of EMF/EMR - producing technologies, not with the users and consumers. Thank you.

Yours truly,

James G. (Jerry) Flynn