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British Columbia Utilities Commission  
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Via email: [Commission.secretary@bcuc.com](mailto:Commission.secretary@bcuc.com)

Re: FortisBC Inc Advance Metering Infrastructure CPCN

Subject: Questions For Intervener Curtis Bennett by Andy Shadrack

**1. Can you please explain why you are qualified to critique FortisBC's Advance Meter Infrastructure CPCN application?**

**Response:** As an Interprovincial Journeyman Electrician(Red Seal), our education includes designing EMFs to produce electricity for utilization for industry, homes and requirements for development. Our practical work includes installing electrical systems and equipment as per Canadian Electrical Code. Electricians compliment Electrical Engineer's designs by completing electrical construction as per specifications. Careful consideration and care is required with EMFs. Electromagnetic fields will interact with anything the frequencies come in contact with.

As a Building Construction Engineering Technologist, our education includes every aspect of construction from contracts to completion. Buildings are designed and insulated for regional temperatures provided through BC Building Code by Environment Canada. The building's energy consumption is based on the building, building envelope(insulated walls, roofs, floors, windows) and energy systems functioning as designed. Each building's electrical load(watts) requires generation by the utility.

As an infrared consultant with an application background starting in 1979, we would troubleshoot electrical distribution, electrical equipment, mechanical systems, vessels, refractory while they were under load. The purpose was to provide industrial clients including energy company professionals the ability to see and isolate problems before failure. Some of the electrical problems were frequency related that could have led to serious electrical failure.

Our work for governments, engineers, condos, schools, building owners included isolating and documenting missing insulation, air leakage, energy losses, energy waste for energy savings. Infrared utilized properly allows sight of energy losses so the losses can be addressed. It saves on premature failure of buildings, building code compliance reduces energy waste, fossil fuel use, reduces emissions and reduces electrical generation by the utility.

**2. Can you please list the concerns you have about FortisBC's Advance Metering Infrastructure CPCN application and elaborate on them as identified in order G-177-12?**

**Response:** When it comes to health, the wireless smart meter program doesn't comply with Safety Code 6 because stimulation of tissue is to be avoided as it the heat effect. The Specific Absorption Rate used for limits of exposure is a plastic model of a head with a temperature probe inside the head to determine thermal or non thermal effects only. Wireless smart meters were considered safe with distance because they weren't held against the head like a cell phone. The Specific Absorption Rate only considered the smart meter as the end use device. The relays, smart meter routers, antennas, other wireless infrastructure as well as the bio electricity of humans wasn't included in this complex electrical equation. As soon as you incorporate the missing information the wireless smart meter program is not an option. Here is our letter to Peachland residents showing the test model used for safety and BC Hydro's diagram of the smart grid.

[http://www.thermoguy.com/pdfs/Peachland\\_City\\_Council\\_on\\_Smart\\_Meters\\_and\\_Land\\_Use\\_2013.pdf](http://www.thermoguy.com/pdfs/Peachland_City_Council_on_Smart_Meters_and_Land_Use_2013.pdf)

Incorporating the errors or omissions in safety code changes operations and the financial information associated with FortisBC's application. Electromagnetically inducing all humans in the 17,000 sq. Km coverage area creates unrealized costs associated with adverse health effects. Keep in mind that in order for the frequencies to cause adverse health effects, it had to be shown how the EMFs hit humans. BC Hydro's diagram of the grid verifies that with the frequencies blanketing areas solely to communicate with wireless devices.

Compound the above with the RF EMFs interacting with everything in the coverage area. Everything in existence is electrical at the atomic and molecular level which can be verified by the Periodic Table. The frequencies interacting with everything in the coverage area requires the incorporation of each science, all industry, municipalities and create a complex problem with financial liabilities not being represented.

Environmentally the wireless grid isn't going to achieve the objectives of the BC Energy Plan. They are not saving energy or catching the massive energy waste province wide associated with building performance associated with heat loss. Air conditioning is refrigeration requiring a big electrical demand of 1000s of watts/per hour/per building responding to symptoms of solar EMF interaction with buildings. All of it is a waste and could be removed from the electrical grid with paint colours, cool roofing technology, low e exterior finishes and shade. Solar EMFs are causing buildings to grossly exceed BC Building Code because of solar interaction with absorbent exterior finishes. Here is accurate infrared information submitted as evidence in these proceedings. [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)

Leaving out the wireless grid blanketing the coverage areas bring fire safety into consideration because of what isn't designed to be in an electromagnetic field. Were the meters tested in a full load EMF of the grid? Is FortisBC using unqualified installers as BC Hydro did with their meter deployment?

**3. From your submissions it would appear that you have some concerns about EMR and the effects it might have. Have you always had those same concerns and if not can you please explain what is it that triggered your current concerns with regard FortisBC's Advance Metering Infrastructure CPCN application?**

As a first response consultant, I was alarmed about the deployment of the wireless smart grid. There are real electrical reasons we don't randomly blast frequencies around. You have to consider every molecule they interact with and incorporate the appropriate science professionals associated with every molecule they hit.

These frequencies go through people, buildings, infrastructure and everything they can interact with. MLA Adrian Dix's office told me BC Hydro bypassed the regulatory process for their smart grid creating alarming problems. Unqualified people with a few hours training are swapping electrical meters under load on meter bases that have never been maintained. Electricians don't sneak on properties to swap a meter under load, literally every building requires working with the owners as well as changing meter bases. BC Hydro is blaming home owners for fires and electrical problems because the home owners own the meter base. The electrical reality is the meter installation caused the fires. Every meter that has been installed like this requires a qualified electrical professional to check, maintain or replace every meter base.

The errors or omissions in Safety Code 6 were reported through Canadian Parliament and the incorporation of the missing science will make the wireless grid illegal and not sustainable. The dangers of the frequencies as applied has been lectured in medical education for CE credits and medical education can't be dismissed for inconvenience. It is approved by American Academy of Family Physicians, Boards of Medicine, Dentistry, Nursing and others.

This was reported through the authorities including the Premier, applicable ministers, etc because of the real liabilities with the wireless grid as a frequency weapon as applied. All of this was done in the protection of all including the utility. Municipalities have been told the frequencies are safe and outside their jurisdiction. Incorporate the missing science and their jurisdictions are being radiated with high speed frequencies.

Sincerely,

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