

Keith Miles

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...in the Kootenays



Telephone: (250) 368-8728

October 24, 2012

Submitted via E-mail

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

Dear Ms. Hamilton,

**Re: FortisBC Inc. Application for a Certificate of Public Convenience and Necessity  
for the Advanced Metering Infrastructure Project  
Intervenor Request 1**

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In registering as an intervener, I was concerned about a number of issues rising from the AMI Project that will potentially impact consumers of FortisBC Electricity. Of those initially listed, the following remain a concern:

1. Concerns regarding the safety and function of the infrastructure;
2. Concerns regarding the location of receivers for which infrastructure appears to be already installed noting that an area signal receiver appears to be poised for hookup directly opposite my home and adjacent to the Middle School playground;
3. Concerns that FortisBC Electricity is using this application as a springboard to future BCUC applications to create new tariffs for daily or hourly peak period residential billing and create significant extra charges for residential usage;
4. Concerns that the data management and custody of all the resultant digital information will be subject to misuse, compromised, inaccessible by the resident, and manipulated in advanced billing structures.

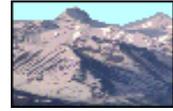
To: FortisBC Inc.: Further to your application of July 26, 2012, I would ask the following regarding your submission:

Item 7.3 Page 111: Power Line Carrier AMI Systems

I note that the issue of Power Line Carrier AMI Systems in was rather summarily discarded with your notes form this section and section 4.2.2 mentioning that you did not specify in the RFP or receive and obtain a PLC proposal.

It is likely that you were and are currently aware of the public controversy involving the issues surrounding radio frequency (RF) broadcasts. Given that climate, I would like to know why you did not seek this alternative in your RFP.

I would like to know why, other than the brief comments on page 115 you are discarding it, as it seems to me that the PLC alternative is a functional alternative that completely avoids the RF controversy. By way of example, I would like to ensure that it is on the record that Idaho Power



in the State of Idaho, USA, considered this same question several years ago based on the controversy in California regarding RF systems and determined that they would be able to avoid any risk to their consumers by utilizing a wired AMI system. They installed 500,000 AMI meters using a PLC system, a much larger project than the FortisBC proposal, and they were able to serve their needs and not put any customers at risk. I have attached reference information in this regard as Attachment 1 and Attachment 2.

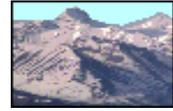
Idaho Power, (2012), stated, "Smart meters being deployed in Idaho Power's service territory do not transmit radio frequencies. Our smart meters do not use any wireless communication media or generate any high-frequency signals. Our system uses only wired infrastructure to communicate to and from our smart meters utilizing the low-frequency 60 hertz (Hz) power line signal as the carrier for our communications. This may be of interest because some smart meter deployments in California have raised concerns that radio transmission, wireless transmission or high-frequency transmission may pose health risks. The technology we're deploying is fundamentally different from the technologies in question in California."

Given that the PLC alternative uses the same wired infrastructure that now exists to each residence with resulting cost efficiencies, why is that option not fully explored? While some comments are available in the FortisBC response to BCUC IR1 Q106.1 to 106.5 and BCUC IR1 113.1 to 113.1.4, it would seem that a relatively safe and non-RF data system has been supplied by Fortis Alberta, similar to Idaho. Other than following what appear to be primarily reduced cost concerns, why is it absolutely necessary to subject B.C. residents to an RF system and why not utilize an alternate system supplier other than Itron?

I would like to know what bearing the B.C. Hydro deployed metering system noted on Page 114 has to do with the data collection process for FortisBC. (I should note that any B.C. Governmental directions regarding smart meter installations as noted in 3.2.2 likely apply solely to B.C. Hydro, a Crown Corporation, and are not directly applicable to FortisBC as regards to the RF data collection method).

While it appears to me that it is undesirable to use any RF distribution, I would like to know why you would not be able to provide a hybrid system with safe PLC data capture in residential areas and then, perhaps using an isolated RF bridging system that is removed to areas where there is likely to be no safety concerns, to transfer your data a central collection/processing facility.

Notwithstanding your comments on PLC cost competitiveness on page 114, I would like to know how you can determine that that the health and safety of exposing 115,000 customers to any possible risk for negative effects from persistent RF exposure outweighs any extra costs of a fully safe PLC system.



#### 8.4.2 Page 133 - Electro Magnetic Fields:

With respect to the health concerns, by way of a personal example, I can mention that my wife has been disabled with Multiple Sclerosis, a neurological disorder, for many years. In your proposal, you will install the RF emitting device adjacent to our bedroom, as indicated in the attached photo, about four linear feet away from our bodies where we spend about 1/3 of our life sleeping. This is also about 10 ft. away from and adjacent to our neighbour's child's bedroom who is developmentally challenged. With respect to the original application, 8.4.2 ELECTRO MAGNETIC FIELDS, Page 133, I am unable to determine the risk for constant nighttime exposure while sleeping adjacent to the meter. I am unable to determine how to turn off the emitting source at the meter. I am unable to determine that there is consideration for removing the RF source to a more benign PLC-style data distribution at this location. I am unable to determine how to avoid any unnecessary risk at all. Please advise related to 8.4.2, similarly to the question to you from Guy Leroux, Leroux Regulatory Consulting Ltd. Reference: APPLICATION Exhibit B-1, why we should be forced to permit potential risk to a known neurological condition at our home when PLC alternatives are available?



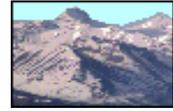
The problem at this location becomes even more significant at this location when it appears that directly across the street from our home and bedroom, infrastructure has already been installed for a device connection to facilitate concentrated RF transmissions collection. I have attached an image of the structure, also adjacent to the Middle School playground, which I presume will eventually serve to concentrate



area RF transmission in our vicinity. I am unable to determine from your original application, 8.4.2 ELECTRO MAGNETIC FIELDS, Page 133, the additional net RF effect for signal capture at the collector.

Again, I would ask why we should be forced to permit any further potential risk to a known neurological condition at our home when PLC alternatives are available and what eventual options will be available to remove the concentrated RF signals in our vicinity?

Are you suggesting for ourselves and other



consumers, where we cannot opt out of exposure planned for our electrical service because there is no other electricity supplier at our home, that the BCUC should approve your intervention to put us at any further risk when a PLC option does exist, as is the case in other jurisdictions, that would mitigate this type of concern?

By way of reference regarding the above questions, I have attached (with permission) from May 26, 2012, as Attachment 3, a reasonably well substantiated document that is public correspondence from a local resident, Lizette Tucker, 1816 4th Ave, Trail BC. V1R 1T1. The document seems comprehensive in raising in the community, RF concerns, among others.

#### 8.4.3 Page 135 – Security

I am unable to locate in the BCUC IR1 responses to security concerns in the home to collector wireless distribution system, but, despite comments in your application of July 26, 2012 regarding monitoring and information exchanged, it appears to me that it would be relatively easy for 900 MHz airborne signal transmission and data relay to be compromised, either unintentionally or maliciously, notwithstanding security controls or software monitoring.

I would note from the PLC-type system comments by Idaho Power, (2012), that,

*Smart Meters Are Secure: Our smart meters do not communicate over public airways or the Internet. We employ cyber-security standards of encryption and isolation to ensure the integrity of the system. And we take effective precautions to protect our communication system physically. In our system, smart meter communications happen over the power line between each individual smart meter and a secure Idaho Power distribution substation. Communication utilizes proprietary, secure equipment. There is no meter-to-meter communication. It is physically impossible for smart meters to communicate with anything other than the substation. Typically, the meters communicate with the substation four times daily to collect usage information.*

My question is, why put the RF data transmission service at risk when, with a PLC-type system or a hybrid system that could be wired to a localized collector, hijacking of the signal or data would be more easily frustrated, with no apparent loss of AMI functionality?

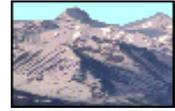
You may note that I am not technically skilled in all aspects of the BCUC intervention process and all of the subject matter. I request your patience in the format and presentation of my questions. The concerns I present are quite real and hopefully can be fairly considered. In general, I would resist the heightened intervention in our homes with AMI systems that provide lifestyle data to a corporation where my privacy will be diluted more significantly than it presently is. However, if it is inevitable those systems will be installed, then I would absolutely want it to be 100% safe and unassailable – on my terms, not simply accepting the well-being proposed by a single corporation.

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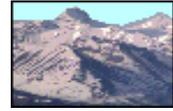
Telephone: (250) 368-8728

In that regard, how will we as consumers have custody and control over the extra personal residential data being extracted from our homes by FortisBC Inc. such that it will not be misused, as in disclosure between other electrical companies, disclosure for marketing purposes, or disclosure to other Government and Municipal agencies? How will we have custody and control over personal usage data that is lost, retained forever, carried off-premises or otherwise distributed?

Others have submitted questions in certain structured ways which are not used here, so I hope you will be able to respond meaningfully as presented.

I remain concerned that if there is not an attempt by FortisBC Electricity to provide alternative solutions to the concerns provided, there will be little recourse for problems rising in the future. It is not as if we can function with our electrical system in a competitive environment where, if we are disturbed by our service, we can switch utility infrastructure providers.

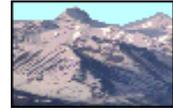
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**Attachment 1:**

[http://www.idahopower.com/ServiceBilling/Residential/Billing/AMR\\_QualitySecurity.cfm](http://www.idahopower.com/ServiceBilling/Residential/Billing/AMR_QualitySecurity.cfm)





**Attachment 2:**

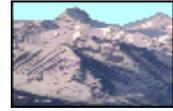
<http://www.puc.idaho.gov/internet/cases/elec/IPC/IPCE0816/company/20080805HEINTZELMAN%20DIRECT.PDF>

APPLICANT  
IDaho Power Company  
1580 McBeth Street  
Trail, B.C. V1R 1Z4

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION )  
OF IDAHO POWER COMPANY FOR ) CASE NO. IPC-E-08-16  
A CERTIFICATE OF PUBLIC )  
CONVENIENCE AND NECESSITY TO )  
INSTALL ADVANCED METERING )  
INFRASTRUCTURE ("AMI") TECHNOLOGY )  
THROUGHOUT ITS SERVICE TERRITORY )  
\_\_\_\_\_ )

IDAHO POWER COMPANY  
DIRECT TESTIMONY  
OF  
MARK C. HEINTZELMAN



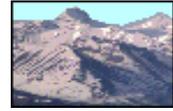
**Attachment 2 Cont'd:**

5           Q.           Could you generally describe the AMI system  
6 being implemented by Idaho Power and how it works?

7           A.           The TWACS AMI system uses the electrical  
8 distribution system as the path for two-way communications  
9 between the TWACS substation communications equipment and  
10 the endpoint communications modules installed internally in  
11 the customers' electric meters or load control devices.  
12 The software for the AMI System is hosted on the Idaho  
13 Power network. It consists of proprietary software  
14 applications, a hardware operating system, backup and test  
15 applications, communications applications and servers, and  
16 database applications and servers. The software  
17 application will be connected to the substation control  
18 equipment through our existing internal network or through  
19 the phone system.

20           The substation control equipment will be installed  
21 in our existing distribution substations. A typical  
22 installation would consist of a phone line with frame relay  
23 service, a phone protection package, a control receiver  
24 unit to provide the connection between software system and

HEINTZELMAN, DI     9  
Idaho Power Company



**Attachment 2 Cont'd:**

1 the station equipment and to control the operation of the  
2 station equipment, an outbound modulation unit to convert  
3 the data request to be transmitted across the electrical  
4 distribution system, a modulation transformer unit to  
5 inject the signal on the distribution system, and inbound  
6 pickup units to retrieve the data back from the endpoint  
7 communications modules.

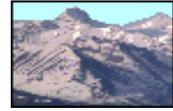
8 The only equipment required on the electrical  
9 distribution system are the endpoint communications  
10 modules. The communications are modulated on the  
11 electricity flowing on the system and, therefore, no  
12 additional equipment is required between the substation and  
13 endpoints. Because of the unique method used by the TWACS  
14 system to modulate the electrical sine wave the signal  
15 requires no further modulation amplification and remains  
16 intact to the end of the electrical distribution system.  
17 Please see Exhibit No. 2 to my testimony for a diagram of  
18 this process. Idaho Power sees this feature as an  
19 extremely valuable attribute of the system. As we add new  
20 customers, the only equipment required to expand the  
21 existing communications system will be a communications  
22 module in the electric meter or end device.

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**Attachment 3:**

Mr. Mayor,  
Councillors,

May 26, 2012

Thank you for paying attention to this subject of the smart meters / smart grid that would have, from our point of view and after thorough investigation, a largely underestimated negative impact on our communities.

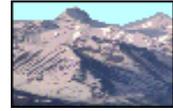
It is not that I am against progress of technology, but I have serious concerns about the Smart Meter being used in BC. Italy has been using Smart Meters since 2005 they are fully wired using Broadband over Power Lines. The Italian Smart Meter system has experienced none of the controversy and costly challenges associated with the resistance to wireless smart meters and grids. You can refer to this information on page 10 question #33 of the Smart Meter - Separating fact from fiction, facts sheet I have provided for you. I have provided many articles and studies for you to review. If you would like more studies I can email them to you since most are over 20 pages long. You can contact me at [lizettet@telus.net](mailto:lizettet@telus.net) I have also included the motion put forward from the residence of Kalso to their Mayor and Councillors.

Other issues I am having with this BC Smart Meter program, is the cases of fires that have broken out in California and in Dec 2011 in Nanaimo BC. Since the Federal and Provincial Gov. are increasing the costs to the Municipalities for the services of Fire prevention, I have concerns for this area. We have older homes that have a greater chance of having problems relating to the surge of power used to transmit the signals from Smart Meters. I would like to know who will be covering the cost of increased use of our Fire Dept.

A number of BC municipalities have passed motions calling on the provincial government to stop the Smart Meter program until important questions have been resolved. I am writing to ask you to research some of the dangers of wireless Smart Meters and to consider your responsibility under the Public Health Act to protect the citizens of your Community.

I have joined up with an organisation named Citizens for Safe Technology Society, commonly known as CST. I have received a lot of my research articles through them. They receive no funding from any government or corporations and everything is sponsored by donations from the public and we are completely volunteer based. [www.citizensforsafetechnology.org](http://www.citizensforsafetechnology.org) We are all working at representation the people of West Kootenay's.

They work on a municipal and provincial as well as on a national and international level. Their main focus is on wireless technologies that are proliferating at such a rate that, amongst others, science and government bodies can't keep up with them. The EMF and



### **Attachment 3 (Cont'd):**

RF emitting “smart meters” and “smart grid” are part of our concerns in that regard. A good number of our members, many with a scientific and / or a technical background have invested vast amounts of time investigating the subject. We notice that hardly anyone has an inkling what this is all about. Through an \$8.6 million propaganda campaign, the smart meter program has been touted by BC Hydro as being an indispensable and very good thing for the customers. We absolutely don't see any benefits at all, to the contrary as we will see further down.

Here is a brief summary of the issues related to the smart meter / grid program:

### **Financial issues:**

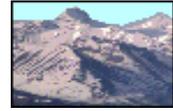
- \* Once smart meters were installed, many customers elsewhere and now also in BC, have received higher bills, without higher consumption. 80% of customers in Ontario have seen their bills go up, some have doubled and tripled. Ontario's Hydro One is admitting that over 8000 of their customers have seen their bills tripled.
- \* People's appliances and electronic devices have been destroyed by smart meters.
- \* BC Hydro is claiming that older house wiring is not compatible with smart meters. People have had to have their wiring redone at their own expense.
- \* So far, no one that we know of has received a reply in writing that their insurance company will cover damage caused by a smart meter.
- \* Most insurance companies will not cover health issues related to microwave radiation.
- \* Real Estate values may decrease once people realise negative effects.
- \* Most meter readers will lose their jobs.
- \* Smart meters are assembled in the US from parts made in China while analogue meters are made in Canada. We have heard talking about creating jobs for decades, but in the mean time ever more Canadians are losing their jobs.
- \* Smart meters cost 536\$ each, installation included. Hydro Quebec seems to be able to install twice as many meters for the same \$1 billion that BC Hydro claims it will cost. That calls BC Hydro's integrity into question.
- \* A closer look at BC Hydro's accounting shows a large deferred debt. Any further deferring of debt could lead to bankruptcy.

<http://www.surreyleader.com/business/139528973.html>

On top of the rate increase for 2012, another 9.73% is planned for 2013.

[http://www.bcuc.com/Documents/Proceedings/2011/DOC\\_27065\\_B-](http://www.bcuc.com/Documents/Proceedings/2011/DOC_27065_B-1_BCHydro_F12_F14-RR-application.pdf)

[1\\_BCHydro\\_F12\\_F14-RR-application.pdf](http://www.bcuc.com/Documents/Proceedings/2011/DOC_27065_B-1_BCHydro_F12_F14-RR-application.pdf) (Page 1). BC Hydro's business plan stated near \$1 billion for the implementation of the smart meters. From other areas we have seen final costs that were on average 2.5 times higher. That not only negates the projected meagre savings as a result of the implementation, but could further cripple BC Hydro's financial situation, which is a crown corporation owned by the



### **Attachment 3 (Cont'd):**

- \* people of this province. The deferring of the debt makes the books look good so that the people at the top can keep raking in bonuses.
- \* Corix (the company installing the meters) is owned by CAI. At least 4 people on BC Hydro's board are involved with CAI and as such with Corix, which is a conflict of interest.

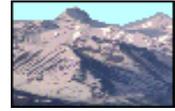
### **Safety issues:**

- \* Smart meters have exploded and caused fires. One such fire was in Nanaimo. In California alone some 800 fires were smart meter related. One of the reasons is overheating of the meter.
- \* House wiring is not designed to carry the high frequencies created by smart meters, which is another cause for fires which can be initiated anywhere on the wiring in or outside the house. As such smart meters are a violation of the BC Electrical Code.
- \* Smart meters are neither CSA nor UL approved.
- \* The smart grid, instead of becoming safer will be a lot more vulnerable to all kinds of failures that come with a technology that is not robust compared to analogue meters that have an excellent track record of nearly 100 years.
- \* Microwaves continuously subject everything, including buildings for instance, to minute seismic events. In other words micro earth quakes which will slowly, but surely keep shaking structures billions of times a second until they fall apart. Other phenomena such as erosion at a highly accelerated rate are being observed and investigated where large holes are being created in an uncommon fashion in steel. Buildings are not designed with those effects in mind and as such building codes are being violated.
- \*

- \* Manufacturers are justifying wireless products based on safety code 6, but Safety code 6 specifies that:

- it is not to be used for product specifications,
- is a work in progress,
- that there are still aspects it does not understand,
- the only levels it is sharing at this time have to do with the known short term dangers that have been reported to them.

Safety Code 6 limits, at this time, are based only on known danger levels, it has nothing to do with a safety level because Health Canada does not know what a safe level is. Health Canada has received many studies proving detrimental effects from long term microwave radiation exposure, but Safety Code 6 specifies that it does not understand the nature of the long term effects and so is only reporting on the short term heating effects at this time.



### **Attachment 3 (Cont'd):**

Safety Code 6 specifies that it is only reporting on what has been proven dangerous, it is not reporting on what is safe because it has not been satisfied that there are any levels that have been proven safe.

### **Security issues:**

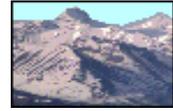
- \* All wireless data transmission technology is very much prone to hacking. Where even the Pentagon was hacked into, how can BC Hydro be sure they will keep hackers or terrorists out of their system? Wireless technology is vulnerable to attacks from anywhere in the world. Part of, or the whole grid could be taken down. Even an extremely secured facility such as the Iranian nuclear plant got infiltrated and attacked by the Stuxnet virus.
- \* Bees are being affected and don't return to their hives in the presence of RF and EMF waves. If we lose our pollinators, we will lose most of our food production and who knows what else.

### **Privacy issues:**

- \* Companies have admitted that they will NOT be able to guarantee the safety and privacy of the data that they collect from us.
- \* Part of the plan is for everyone to have "smart" appliances that have chips built in that can communicate with the smart meter through the zigbee radio system.
- \* The smart meter will transmit data such as which appliances are running to the utility company. Such information can be used to monitor if people are home, not only by BC Hydro, but also by anyone hacking into the system.

### **Environmental issues:**

- \* There is constant talk about "renewables". The program is supposed to be green, but the smart meters cannot do what is called back-metering. In other words, people cannot feed their surplus from for example solar panels into the grid.
- \* Our planet is being submerged in electrosmog that is taking it's toll on all living beings.

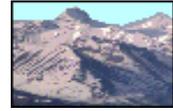


### **Attachment 3 (Cont'd):**

#### **Health issues:**

- \* The "American Academy of Environmental Medicine" (AAEM) recommends an immediate moratorium on smart meter installations until the serious public health issues can be resolved as well as immediate reinstallation of analogue meters.
- \* The microwave Smart Grid is an environmental toxin, a threat to the health and well-being of communities and the environment and ultimately should be dismantled and eliminated.
- \* Exposure to children, the elderly and immunodeficient; they are at heightened risk.
- \* Citizens for Safe Technology Society (CST) has launched "Human Rights Action" against BC Hydro for people with health problems relating to RF and EMR as confirmed by the AAEM.
- \* The World Health Organization (WHO) states that governments should take "**pragmatic measures against possible human cancer risks**". **It is a class 2B carcinogen like DDT, Lead and Chloroform which are also class 2B carcinogens.**
- \* Hydro quote: "*Having a smart meter in your house is the same as being on a cell phone for 30 seconds a day*". This masks the reality of how these meters work. They really emit all day long in millisecond packages, so 100 such bursts of information transmitted to hydro would only take a second or two. Hydro goes on to state the meter communicating with Hydro central only takes a few seconds a day. This is what they "CLAIM". What should be asked is what are the capabilities of the technology. They can actually transmit all day long. There are NO REGULATIONS IN PLACE to restrict Hydro from keeping them on all day as other jurisdictions have proven is the case. Meters are also talking to other meters all the time, maybe a 1000 or so (called Chatter), as well as to all the appliances in the house eventually through the "Zigbee" transmitter / receiver chip that is in the meter and will also be in appliances. Now radiation in the home is transmitting and receiving back and forth all day long through up to 3 transmitters per meter, not taking into account the emissions from the Relay Routers in the vicinity. Those Relay Routers that communicate with up to 4000 meters are totally unregulated and are emitting a lot more EMF / RF than the smart meters themselves.
- \* Regulations: "THERE ARE NO HEALTH REGULATIONS".  
"Safety Code 6" is a **guideline** created by 'Industry Canada' and accepted by 'Health Canada' as an exposure standard for people who may come in contact with EMR. This research and guideline was done in the 1950's. Safety Code 6 was not meant as a health standard. Real detrimental health effects are noticed at thousands of times lower levels than "Safety Code 6" which is a tissue warming regulation. These lower levels of exposure ARE CLASSIFIED AS NON-THERMAL HEALTH EFFECTS. Non-thermal effects of RF are not covered in the FCC guidelines and are irrelevant while Safety Code 6 is a duplication of the irrelevant FCC guidelines.

\*



### **Attachment 3 (Cont'd):**

- \* Safety Code 6 is specific that the unintentional stimulation of tissue is to be avoided, as is the heat effect. Experiential studies have shown that it can lead to nerve and muscle stimulation. The reported mechanism substantiates the electromagnetic
- \* induction of neurological systems **IS** happening. Electromagnetic induction is how we generate electricity, except with these frequencies and in this case, humans are the conductors.
- \* The switching-mode power supply in the meters creates dirty electricity that travels through house wiring and it is the source of a multitude of problems.
- \* A number of people (estimated up to 15% of the population) have developed Electro Hyper Sensitivity (EHS) caused by exposure to EMF / RF radiation. That number is expected to rise to 50% by 2017. In some countries, such as Sweden, electro hypersensitivity (**EHS**) is an officially fully recognized functional impairment (i.e., it is not regarded as a disease). It is very debilitating.
- \* PG&E in California and other utilities elsewhere have already started removing smart meters.

### **No public input and erosion of democratic rights issues:**

- \* The public was not being consulted on the "Clean Energy Act" because it was obvious that the smart meters would never pass scrutiny. This required removing the "B.C. Utilities Commission" from having any oversight for fear of exposure. Everything Hydro is currently planning would not pass oversight approval including the river projects. None of these programs would meet minimum requirements acceptable to the public.
- \* At the BC Union of Municipalities September 2011 55% voted for a moratorium on the installation of smart meters which was deliberately ignored by Energy Minister Coleman and Premier Clark.
- \* Premier Christy Clark has ignored all requests to hear what the people are saying.
- \* It's the first time in the history of western democracies a government has mandated that the citizens place a recognized carcinogenic device in their homes without a choice. People were told by Minister Rich Coleman to get off the grid or to leave the province and some people have been threatened by BC Hydro and Corix that their power would be cut off if they did not accept the meter. Hydro can turn the appliances on and off remotely without your permission. There is no law restricting it. They can turn power off at peak times and sell the energy elsewhere if they wish. We have an Itron video showing this remote disconnect switch.
- \* The State of Georgia passed a bill on March 7<sup>th</sup> 2012 that allows consumers to opt out for free.
- \* The Netherlands have an opt-in option. It is a voluntary choice people make.  
The UK recently decided to provide a choice to all of their customers. Canada is part of the Commonwealth, why can this not be done here?



**Attachment 3 (Cont'd):**

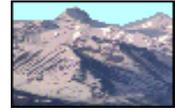
\* <http://www.telegraph.co.uk/financialservices/utilities/Business-energy/9053100/Smart-meters-for-energy-to-be-voluntary.html>

\*

- \* As of March 19<sup>th</sup> 2012, 51 local governments in California have opposed. At least 10 of them have banned the meters altogether.
- \* PG&E in California and other utilities elsewhere have already started removing smart meters.
- \* Every opinion poll taken shows that 80% of the public are against this program.
- \* Dr. Kendall has received credible sources of the hazards of RF and EMR but ignores them and states that we are safe. Kendall's sources for making these claims are riddled with huge controversies; conflict of interest, academic fraud, etc. No credible studies are being used by his office. Where does Dr. Kendall get his research? "B.C. Centre for Disease Control". All NGO appointments. No oversight on the committee! Hydro is on the committee. "Stacked committee"! This group is very compromised.
- \* Dr. Kendall ignores all the credible studies (available upon request).
- \* On December 22nd, 2011 a legal complaint was filed with the BC Utilities Commission charging that they had exceeded the scope of the "Clean Energy Act"- Bill 17-2010.
- \* There being no oversight nor public input, what has happened to democracy? The term fascist dictatorship comes to mind. It is something that we spend billions of dollars on to fight abroad, some of our citizens gave their lives to combat it. We cannot let it rear it's ugly head up in our own country.

**In conclusion we would like to ask:**

- \* For council to take time to carefully study the subject. We can provide more studies and information.
- \* That council, when in doubt, adopt the Precautionary Principle with the safety of the community in mind.
- \* That council consider supporting us bringing the issue to the North Okanagan Regional District, asking NORD to provide for a public venue and the necessary advertising, to allow us to organise a public session in order to better inform the communities and electoral districts and their councils under NORD.
- \* That, in the case of lack of the above, council provide for a public venue and the necessary advertising, to allow us to organise a public session in order to better inform the community.
- \* That council follow the requirements under Bill 23-2008 of the British Columbia Public Health Act, section 83 that states: "a municipality must take action when it learns of something that could be harmful to its residents. It must notify the Minister of Health or take immediate action."



**Attachment 3 (Cont'd):**

\* That council, due to the potential for wireless smart meters to cause harm or to compromise security, request and vote for a moratorium on mandatory installations of wireless meters and request that concerned residents be offered safer alternatives at no cost to them. 36 other municipalities

\* already voted for a moratorium.

<http://citizensforsafetechnology.org/Tally-of-Municipal-Councils-requesting-Smart-Meter-Moratorium-in-BC,25,1354>

\* That council accept our further support.

As you know, the Smart Meter program is under provincial jurisdiction and the Clean Energy Act of 2010 robbed the BC Utilities Commission of the power to review the project or facilitate public input. However, you have the power and the responsibility to bring the potential danger to the attention of the provincial and federal Ministers of Health, and to request action or legislation to ensure safety for all Surrey residents. Please request a moratorium on the mandatory installation of wireless Smart Meters until health issues are addressed and wired alternative solutions are made available at no cost to customers.

I have enclosed some information for your perusal, and I encourage you to visit these BC websites for more information:

- Stop Smart Meters BC <http://www.stopsmartmetersbc.ca/html/>
- Citizens for Safe Technology [www.citizensforsafetechnology.org/](http://www.citizensforsafetechnology.org/)
- EMR Health Alliance of BC <http://emrabc.ca>
- Gulf Islanders for Safe Technology <http://www.gifst.ca/>

**Additional possible links as examples:**

Letter to City Council (Coldstream Mayor and Council)

<http://citizensforsafetechnology.org/Letter-to-City-Council,73,1982>

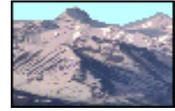
Smart Meter Info Package for Councils:

Keith Miles

1580 McBeth Street  
Trail, B.C. V1R 1Z4

E-Mail: kemiles@telus.net

...in the Kootenays



Telephone: (250) 368-8728

### **Attachment 3 (Cont'd):**

<http://citizensforsafetechnology.org/Smart-Meter-Information-Package-for-Councils,25,1299>

Delegation Presentation to White Rock Council:

<http://citizensforsafetechnology.org/Delegation-Presentation-to-White-Rock-Council,45,1445>

Delegation to Langley Township Council:

<http://citizensforsafetechnology.org/Delegation-Presentation-re-Smart-Meter-Rollout-in-Langley-BC,45,1254>

### **VIDEO**

Dr. David Carpenter: <http://citizensforsafetechnology.org/Dr-David-Carpenter-Warns-of-Smart-Meter-Dangers-Stresses-Need-for-Analog-Option,16,1072>

Daniel Hirsch: <http://citizensforsafetechnology.org/Daniel-Hirsch-on-Smart-Meters,25,1743>

12 Fatal Flaws: <http://citizensforsafetechnology.org/12-Fatal-Flaws-of-Smart-Meters--Cindy-Sage,25,1511>

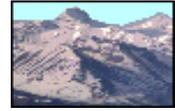
Privacy: <http://citizensforsafetechnology.org/Smart-Meters-A-Little-Too-Smart---Personal-Surveillance,16,1123>

Power Film Trailer: <http://thepowerfilm.org/>

Interview with Sharon Noble and Una St.Clair: <http://www.youtube.com/watch?v=1mjD3hso2Ac>

### **MUNICIPALITIES PASSING MORATORIUM MOTION**

- 1. ALERT BAY**
- 2. BURNABY**
- 3. CENTRAL SAANICH**
- 4. CHAWATHAL FIRST NATION**
- 5. COLWOOD**



**Attachment 3 (Cont'd):**

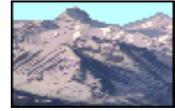
6. DISTRICT OF LAKE COUNTRY/WINFIELD
7. DISTRICT OF THE HIGHLANDS
8. DUNCAN
9. ENDERBY
10. GOLD RIVER
11. HAGWILGET VILLAGE FIRST NATIONS
12. INVERMERE
13. ISLANDS TRUST COUNCIL (Gulf Islands)
14. LADYSMITH
15. LAKE COWICHAN
16. LANGLEY TOWNSHIP
17. MAPLE RIDGE
18. METCHOSIN
19. NANAIMO
20. NEW DENVER
21. NORTH COWICHAN
22. NORTH SAANICH
23. CITY OF NORTH VANCOUVER
24. OLIVER
25. PARKSVILLE
26. POWELL RIVER
27. QUALICUM BEACH
28. REGIONAL DISTRICT OF CENTRAL KOOTENAY – Fortis
29. REGIONAL DISTRICT OF KOOTENAY BOUNDARY - Fortis
30. REGIONAL DISTRICT OF NANAIMO
31. RICHMOND
32. SAANICH
33. SECHELT

Keith Miles

1580 McBeth Street  
Trail, B.C. V1R 1Z4

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...in the Kootenays



Telephone: (250) 368-8728

**Attachment 3 (Cont'd):**

- 34. SICAMOUS
- 35. SILVERTON
- 36. SOOKE
- 37. SQUAMISH
- 38. SUNSHINE COAST REGIONAL DISTRICT
- 39. SURREY
- 40. TOFINO
- 41. VANCOUVER
- 42. UCLUELET
- 43. VERNON
- 44. VICTORIA
- 45. WHITE ROCK

Thank you for paying attention to this subject of the smart meters / smart grid that would have, from our point of view and after thorough investigation, a largely underestimated negative impact on our communities.

Thank you very much for taking the time to read my letter and to look at some of the information. I look forward to hearing from you.

Sincerely,

Lizette Tucker, Resident of Trail, BC and the Greater Trail Area.

1816 4<sup>th</sup> Ave, Trail BC. V1R 1T1

[lizettet@telus.net](mailto:lizettet@telus.net)

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