



February 23, 2015

City of Kelowna
Water Street
Kelowna, BC

Att: Mayor and Council

Re: FortisBC Reckless, Endangers Entire City & Coverage Area & 24 Story Hotel's Design Planned for Kelowna No Longer Compliant With Building Code

Dear Mayor and Council,

Since my letter to the City on January 15, 2015 on FortisBC making a 17,000 sq. km microwave with everything in the coverage area inside the microwave, there have been additional circumstances that require the immediate attention of the City of Kelowna. This is all based on an emergency of unprecedented proportions that can be qualified instead of dismissed.

I was an eye witness to FortisBC's Corix Installer swapping meters under electrical load. It was my duty as an Interprovincial Journeyman Electrician and Building Engineering professional to address the installation. The Corix Installer **did NOT follow FortisBC protocol** that Mark Warren spoke of in FortisBC's article in the Kelowna Daily Courier on January 28, 2015. The installer was challenged on electrical credentials and stated he didn't have any. When asked what he did with the 8 electrical connections in the meter base, he clarified he used a short tool for the 4 stab connections but was not supposed to touch the wired connections. He did not have a screw driver in his pouch without understanding the wired connections power the stab connections where the meter is installed. The meter base belongs to the home owner and the home owner's electrical professional is REQUIRED to represent electrical integrity. There is a very very real electrical danger associated with the installation and that is separate of the 2 RF EMF antennas inside the meter. The conversation was recorded and is linked to a file showing a meter base fire as well as what bad connections look like in the infrared spectrum.

I am not applying for a job but need to clarify electricians do not get their credentials doing the same types of electrical work. That was verified when the same Corix Installer returned to do the neighbor's house with a Red Seal Interprovincial Journeyman Electrician working for FortisBC. He spoke of his credentials and I called him on allowing an unqualified worker to do live electrical work, his lack of experience, liability as well as the liability. He wouldn't give me a business card and didn't defend his actions.

FortisBC responded to public concerns through an article in the Kelowna Daily Courier by Engineer Mark Warren. He mentioned me by name, the BCUC, transcripts and evidence are now a matter of public record. He refers to safety of the meters, installations, procedures and a certified electrician is available if connections or wiring look faulty before new meter installed? It didn't happen.

Mark Warren's article is reckless and that negligence affects the the City of Kelowna, FortisBC and their entire coverage area. The fact the summary of the BCUC and FortisBC application for meters refer to my information for the BCUC as theory is reckless and ridiculous. It requires the sharing of the evidence Warren refers to from the BCUC and Oral Hearings in Kelowna.

FortisBC accountant Loski refers to what I represent as a hypothesis as does Engineer Mark Warren. Dr. Bailey dismissed me as well as Dr. Shkolnikov. The city and others including FortisBC are using the summary that refers to my qualified opinions as theory? FortisBC and BCUC dismissed electricity, engineering, biology, Thermal Radiation, accredited medical education applicable in Canada and the US. As a qualified electrician and Building Engineering professional, there are no accountants or unqualified Engineers dismissing electricity.

Here is a picture of the science FortisBC, all other utilities and governments are using to substantiate safety. As you can see the plastic head doesn't have any health effects under any radiation load.



The picture to the left is a model used for the Specific Absorption Rate. This is what FortisBC used for the BCUC to dismiss electricity, engineering, medicine, Retired Military Officer Jerry Flynn whose career was specific to EMFs and warfare. FortisBC used the plastic head to dismiss 100% of the medical experts. They used the same plastic head to bypass all applicable codes and standards Building Codes. The plastic head was used as science and the City of Kelowna was not informed or consulted. People are reporting adverse health effects and FortisBC used the plastic head because it never gets sick.

I am going to share the public record and evidence of the BCUC. FortisBC expert Dr. William Bailey confirms under cross examination people have to be exposed to the EMFs and that critical science is missing in their report for FortisBC. Mark Warren states you are safe 10 cm from a smart meter but admits to blanket radiation of 17,000 sq. km and FortisBC consulted no one. FortisBC expert and Electrical Engineer Dr. Shkolnikov states under cross examination that it would be his duty to revise FortisBC's Report on Risk Assessment if critical science was missing. FortisBC, BCUC and Exponent have not produced their revised report prior to any installations. Where is it?

Response to FortisBC Engineer Mark Warren Article in Daily Courier Representing Advanced Meters are Safe & Smart The link to the article and comments is directly below.

http://www.kelownadailycourier.ca/opinion/article_8837e380-a68b-11e4-85c0-27abf55b535c.html

Warren states FortisBC has installed meters for decades and FortisBC was approved by the BCUC. FortisBC electricians have installed meters for decades, they didn't allow unqualified people to swap meters under load or deploy EMFs over 17,000 sq. kms. Electricians wire buildings, industries and meter bases or meter banks. Then the utility's Journeymen Electricians would install a meter. The utility does NOT own the meter base or wires going into the base.

I don't know what BCUC Hearings Warren is referring to because FortisBC experts admitted their Report on Risk Assessment left out critical science. I cross examined Mark Warren and FortisBC experts in front of the BCUC for 3.5 hours. Our objectives during cross examination were for them to technically qualify safety or pin them down on the errors or omissions in Safety Code 6, admit vibrations inside buildings, infrastructure, bodies and ecosystems are real. The interaction of the RF EMFs with buildings puts buildings in non compliance with BC Building Code. It actually substantiates the wireless smart meter is illegal as applied across Canada using the same code rule.

As a government certified electrical professional designing, installing, maintaining and troubleshooting FortisBC or other utility's electricity for use, my response is not for debate or dismissal. I have national/provincial government certification and Mark Warren isn't qualified in any electrical opinion.

Codes and standards require compliance. Our jobs include protecting industries from themselves and it isn't popular at times but not listening has real consequences. If you asked FortisBC electricians why they inspect connections and electrical equipment? Loose and corroded connections are the weakest part of an electrical circuit. Left unattended the connections will fail, it is just a matter of time.

Ask FortisBC electricians if they would allow Pizza Delivery drivers or people not qualified to swap the electrical meter on the home owner's meter base under load? Some of the meter bases will be decades old with connections never maintained and qualified electricians would **never** do what FortisBC and others are. Those meter base connections are very very delicate and the reality is meter bases have to be changed to maintain integrity of the electrical systems.

Councilman Zimmerman was the Chief of the Kelowna Fire Department. Sometimes their sirens, medical aids, false alarms, fires and emergencies are inconvenient. The Fire Chief and Department do not take advice or stand down for unqualified people or professionals. Our jobs troubleshooting electrical failure for industries for decades including utilities is the same. Electrical maintenance is a requirement or electrical failure will result. Damages from, fires, explosions, injuries, loss of life, economic losses are the reality. Isolating those electrical problems allows industry's electricians to repair before failure.

For industries, development and economy to happen it requires lots of qualified electricians and applicable professionals. The job is done without compromise. We work together with trades, the authority and are never challenged by unqualified people nor do we speak over our areas of expertise.

Some people think Mark Warren and I are having a disagreement when Mark isn't qualified to substantiate the smart meter program or electricity. FortisBC is going to electromagnetically radiate or induce 17,000 sq. kms putting everything inside an uninsulated, unprotected microwave oven.

FortisBC misrepresents what happened at the BCUC Oral Hearings in Kelowna. Mr. Warren arrogance and ignorance is that he attended the oral hearings in Kelowna and FortisBC experts were **scientifically disqualified**. When I speak of Building Code violations affecting FortisBC properties including their Holiday Inn will not be compliant with building codes.

Please bear with me as we try to simplify smart meters when the FortisBC application for the BCUC was binders of information. I will keep it simple on explanations with references to evidence and transcripts of the BCUC. Everything in existence is atoms and molecules whether it be your chair, eye, parents, pets, buildings, ecosystems, etc. EMFs able to interact with any atom or molecule is going to cause excitation, induce currents, vibrate and polarize at high speeds, etc. That was confirmed by FortisBC experts under direct cross examination by me.

The purpose of Safety Code 6 and exposure codes are to protect the public but this is a code admitting causation and biological plausibility has been missing. The strength of exposure code is the predominant health effect to be avoided is stimulating tissue and the heat effect. Studies show it triggers nerves.(The basis for smart meters is that the RF EMFs are NOT supposed to hit people) In order to substantiate harm to people, buildings, infrastructure or ecosystems it has to be proven how they are hit by EMFs. . Once proven Safety Code 6 says it will change the code once it receives peer reviewed science showing harm. FortisBC and the BCUC dismissed electricity as peer reviewed science

At the FortisBC application for the BCUC. I was there as a Registered Intervener to get the science showing safety or to prove their program was dangerous as applied. When the BCUC dealt with costs of wired versus wireless, here were my questions for FortisBC that are evidence at the BCUC. I am exceptionally qualified in asking these questions.

http://www.bcuc.com/Documents/Proceedings/2013/DOC_33530_C19-11_WKCC_IR-3.pdf

You can see the reference to building code and blanket radiation of 17,000 kms. FortisBC refused to answer the questions because it was outside the scope of cost. The BCUC agreed with FortisBC and FortisBC did not answer the questions the City of Kelowna as well as the rest of the coverage area need. The questions were dismissed as theory except the cross examination validated the questions.

When it comes to exposure or perceived sensitivity, you always hear some are hurt and others are not. Here is a quote from Safety Code 6 and the page and paragraph. Electrically it is alarming because our exposure codes are based on 6 minutes for a 200 lb man when calculations for exposure would be different for everyone on an individual basis across the world.

"The rate and distribution of RF energy absorption depends strongly on the frequency, intensity and orientation of the incident fields as well as the body size and its constitutive properties (dielectric constant and conductivity)." Page 7 second paragraph of Safety Code 6.
http://thermoguy.com/wp-content/uploads/Safety_Code_6.pdf

Here is the link to my cross examination of FortisBC experts and I will refer you to pages and lines to make it easier for you. This is in front of the BCUC Chair and Panel and these "experts" are under oath. Open this and I will reference the pages for you. http://thermoguy.com/wp-content/uploads/Fortis_BC_AMI_Vol_61.pdf

When the BCUC was qualifying FortisBC experts in Kelowna, Interveners we allowed to ask questions about their expertise. My question as a matter of record was **"How can you be experts when causation is missing linking the RF EMFs to adverse health effects?"**

Page 1116- Line 4-18 Shkolnikov explains the specific absorption rate being a **dosage of electromagnetic radiation.**(This confirms Canada, US and whole world uses the same specific absorption rate) It is an admission of harm to admit they are electromagnetically inducing people.

Page 1113- Line 2 - 10 - FortisBC Accountant Loski confirms the Exponent Report addresses Safety Code 6 compliance and any potential health effects.

Page 1157, Line 26 to Line 5 on page 1158- Dr. Bailey states the purpose of Safety Code 6 is to prevent stimulation of nerves

Page 1142, Line 1. Bailey confirms the **Exponent Report did not include** the frequencies of the body, they only considered the frequencies impinging upon the body.

Page 1143, Line 1-14 Bailey admits extremely low frequencies of 60 Hz triggers nerves.

Page 1158 Line 10 to 15. Dr. Bailey admits nervous, hormonal and immune systems are affected at the same time. Safety Code 6 is specific with the warning of exposure triggering nerves with an EMF.

Page 1156 Line 16 – 20 Dr. Bailey is asked where the electrical information of the human organism is in Safety Code 6 and responds it isn't in there.**(You can NOT leave it out of an electrical equation).**

Page 1140 Line 23 Dr. Bailey, FortisBC's expert. He is there to represent Exponent's Risk Assessment Report for FortisBC. I am there for the same reasons. I want to see their science in their report. I ask the voltage of cells and frequencies of the human body as well as where it is in their report. **They left it out of their Risk Assessment Report for FortisBC.**

Page 1142, Line 15 to Page 1143, Line 14- Dr. Bailey talks about inducing voltages and currents without understanding that increases cellular voltage(Ohm's Law $E=IxR$) where an increase of .2 million of 1 volt changes white blood cells. **(Inducing currents is electrocution)**

Page 1193, Line 17 to Page 1194 Line 2- Bailey I confirm the frequencies have to hit people to hurt them and Bailey confirms and acknowledges people will be hit by the frequencies but they will also be hit by EMFs from space.

Page 1171, Line 20 to Page 1172, Line 12. Mr Warren takes exception to my characterization of the utility irradiating 17,000 sq. km. Line 13-15 confirms coverage area and Line 16-20 confirms **electromagnetic radiation of 17,000 sq. Kms. (That confirms how people are hit & hurt)**

Page 1179 Has the Exponent Report considered risk assessment with the multiple devices planned for inside the building? **Page 1180 Line 2 Bailey** confirms this isn't the goal of this particular report. **It is the specific goal of their Risk Assessment Report for FortisBC**

Page 1186 Line 19- Page 1187 -Line 14 Mark Warren denies the physical vibrations of buildings are possible. Keep in mind his engineering credential isn't Electrical or Civil Engineering. It means he isn't qualified in an opinion. He uses Minister Coleman and the BC Governments reckless and negligent lack of response to me to further dismiss me. There are no exceptions for an authority having jurisdiction to dismiss their credentialed government professionals.

Page 1137, Line 24 to page 1138 Line 15- Shkolnikov is asked about frequencies and confirms FortisBC 2 antennas. 900 MHz and 2.45 GHz will oscillate 1.8 billion times per second and 4.9 billion times per second.**(That confirms the interactions inside buildings, bodies or ecosystems that Mark Warren called a hypothesis) Shkolnikov is an Electrical Engineer**

Page 1121, Line 2-21 Shkolnikov- Electromagnetic Fields can be used to induce electric voltages and currents.**(That means EHS is in fact electrocution, not just vibration of water molecules)**

Page 1111-line 26 Shkolnikov- I started out by getting him to admit that electricity is science. Regarding liability I asked him about his errors or omission's insurance. **Read to Page 1112-Line 20** where I ask if information was missing, would he change his report? **Line 24 states it would be his duty to revise the report.** There are several admissions of missing information in their Risk Assessment Report. My summary to the BCUC included the revision of the report. Where is it and is Exponent's errors and omissions insurance picking up the real costs of blanket radiation?

Page 1122, Line 16 – 26 Shkolnikov not understanding electrical loading on humans from wireless and that they have been put inside an electrical circuit. Blanket electromagnetic radiation and electromagnetic induction means humans as well as everything in the coverage area is a device in an electrical circuit.

Page 1191, Line 22. Does FortisBC plan to get information to home owners to make them comfortable? **Page 1192 Line 1 Warren: No**

Page 1192 Line 2-5 Warren I ask don't you think that would be a good idea? **Page 1192, Line 4 Warren** responds no I don't.

Page 1192, Line 5-9 I ask Do you think that considering that Mr. Coleman is not responding to his own professionals related to the issue with any potential liabilities, it would in your best interest to get the Minister to get them to do some tests? **Page 1192, Line 10-11 Warren** No, I do not think that would be a good idea.

Page 1192, Line 12-14 Warren I ask about all home liability in 17,000 sq. km.

Page 1193 Line 15 to Line 4 on, Mr. Loski the accountant answers instead of Warren and **refers to their compliance with all applicable legal framework and regulation.** (They bypassed regulation but are not compliant with BC Building Code. That is separate of FortisBC's liability for every meter base and building they installed on. The meter base is not FortisBC equipment, it belongs to the home owner. FortisBC was warned but still allowed contractors to touch the meter on the meter base. The home owner's electrician is REQUIRED to be there and represent the home owner)

Page 1193, Line 10 to 11 the Chairperson for the BC Utilities Commission questions the line of questioning being informative(This is another reflection of the BCUC technical ignorance on the topic that was created by BC Hydro bypassing the BCUC and all regulatory process.)

Page 1182, Line 5-10 Engineer Warren confirms the second antenna in the meter used for indoor devices goes through walls. That means It goes through humans including a pregnant mom and in accordance with Safety Code 6, exposure is to be avoided.

Page 1186, Line 4 & 5 Warren says Signal Strength drops off quickly. **Line 11 to 13 Warren** confirms power density drops off, not the frequencies.

Page 1189, Line 17 Warren I ask if Fortis got compressive strength tests by engineers to validate safety. **Line 20 Warren** says no

Page 1199, Line 23 to Line 2 on Page 1200 I refer to the electrical incompatibility and **Page 1200, Line 5 to line 22, Shkolnikov** admits human beings weren't designed to receive 900 MHz. It is the 900 MHz that is the RF EMFs covering 17,000 sq. Kms plus overlaps. Any humans in that coverage area that will not be compatible with the 900 MHz?

Page 1211 Line 14, Shkolnikov refers to 900 MHz penetrating the ground a meter or so. **That in itself is alarming with all the biology in the ground as well as contributing to sink holes or instability with the vibrations inside the ground oscillating 1.8 billion times per second.**

Page 1212, Line 13 to line 1, 1213. Mr Loski references compliance with safety code 6 on limits of human exposure to radiate buildings, agriculture. A human exposure code missing causality has ZERO applicability to any other regulation than human exposure codes.

Page 1213, line 4-10 Bailey actually says if their is evidence of adverse health effects, **FortisBC would have to address it** and immediately dismisses everything presented as a hypothesis. Electricity and electromagnetic induction isn't a hypothesis.

Page 1213, Line 15-17 I ask Bailey "As somebody that's a professional in risk assessment, wouldn't you suggest that they do the risk assessment prior to that meter program?"

Page 1213, Line 18-19 DR. BAILEY: A: I think that there is not a weight of the evidence that would suggest a need to do so.

Page 1213, Line 22 to Page 1215, Line 12 Bailey on substantiating the AMI program and that birds, bees and migration will not be impacted, they adapt. (An exposure code based on a 200 lb man for 6 minutes but bees or pollinators adapt is ridiculous and reckless.)

Page 1215, Line 13-16 I ask **Bailey** if the Exponent Report included biological information from all life in the coverage area(FortisBC)?

Page 1215, Line 17-22, DR. BAILEY: A: No, I did not. The purpose of my report was to focus on **human health issues**, but I have an abiding interest in these adjacent areas involving interactions of electromagnetic fields with a variety of organisms in the environment including bees and fish.

Page 1215, Line 23-26 Bailey: I ask about the footnote on their Risk Assessment Report for FortisBC on Page 5 that says most of the epidemiology studies related to frequencies are at 60 hertz.

Page 1216, Line 15 to 21 Bailey quotes the footnote "The common usage of EMF in epidemiologic studies primarily refers to electric and magnetic fields associated with the generation of electricity from power lines and all electric devices at 60 cycles per second or 60 hertz."

Page 1217, Line 2, Question for Electrical Engineer Shkolnikov: Q: Okay. Doctor, can these electromagnetic fields develop a charge on something?

Page 1217, Line 3 to Page 1218, Line 20 where he says yes

Page 1219, Line 18 to 21 Shkolnikov: And if Exponent was asked to address the possibility -- there is, for example, a standard for putting down radio frequency material near explosive material.

Exponent was retained for a Risk Assessment Report on wireless meters where it is admitted 17,000 sq. Kms will be blanketed with high speed penetrating EMFs. Those EMFs going through buildings of classed or volatile areas can induce an electrical charge waiting for a discharge and all it takes is a spark. Shkolnikov admits there is a standard for RF EMFs near explosives. Where is that in their Risk Assessment Report?

Electrical Engineer stated on Page 1112-Line 20 where I ask if information was missing, would he change his report? **Line 24 states:** It will be my duty as a licensed engineer to revise any opinion if the information pertinent to health and safety of the population were to be involved.

As you can see by the evidence FortisBC Mark Warren referred to in their article, Exponent Report on Risk Assessment over 17,000 sq. Kms requires an immediate revision of the report except the RF EMFs as applied will be illegal. Where is the required revision and is Exponent's insurance picking up the damages associated with their errors and omissions? Is FortisBC, BCUC or Exponent going to pay for the 22,000 compromised meter bases, buildings and liability for adverse health effects in Kelowna?

FortisBC was dismissive of the City of Kelowna and other municipalities or districts in their coverage area. They consulted no one on what blanket radiation does such as vibrate buildings.

Now you have cause, the SAR left out the grid. Include bio electrical information of humans and you have biological plausibility. In my opening statement for the BCUC, I looked forward to cross examination. After my cross examination of FortisBC experts, FortisBC chose not to cross examine me or Jerry Flynn. Jerry pinned them down on the range of 2-3 km range of each houses meter. That is a microwave oven made by FortisBC that is 1.86 miles in diameter and everything is in the microwave. Here are the questions FortisBC provided for me to answer as a Registered Intervener. FortisBC presumed my title as Chief Science Officer was a self imposed title without merit. http://www.bcuc.com/Documents/Proceedings/2013/DOC_33705_C19-13_WKCC_Resps-FBC_IR-1_Intvr-Evidence.pdf

FortisBC's application should have been failed by the BCUC and they can answer for themselves. Failing the FortisBC application for smart meters would have reversed the BC Hydro smart meter program.

FortisBC dismissed the fact the dangers of smart meters is lectured in accredited medical education required for ongoing medical licensing. **It is no longer opinion, it is approved medical education.** http://thermoguy.com/wp-content/uploads/Integrative_Health_Forum_on_Medical_Education_Including_Wireless_Exposure.pdf

Where are the manufacturer's specifications on Pacemakers being in EMFs? Here is a link with news on pacemakers and a letter from a Registered Nurse and Medical Education Administrator internationally. <http://thermoguy.com/emfs-and-rf-emfs-interfere-with-pacemakers/>

As for meter base fires and smart meter fires? The meter installations are dangerous and the liability to FortisBC is real. There is an immediate and real danger.(see attached file including audio of a smart meter intervention) The installer did not complete the required electrical work and the connections are vulnerable, arcing, surging which creates a complexity of problems.

February 2, 2015, the Daily Courier reported the 24 story hotel planned for construction this year? The City of Kelowna has no alternative but to get Westcorp Inc to revise their design, proposal and increased costs if it can happen at all. RF EMFs interaction puts building development be in violation of BC Building Code 4.1.3.6.(Vibration), 100% of new building designs have to incorporate the RF EMF interaction into design. They have to be compliant with Part 4 of BC Building Code by incorporating ALL loading on the building including use. Even if they got compliant spending billions, you can't electromagnetically induce currents into people or ecosystems.

The City of Kelowna has allowed 22,000 meters to be installed and has 22,000 compromised buildings that are a real danger to owners, employees or residents. They can not be sold or are disclaimers to be used on the fire waiting to happen.

FortisBC bought Terasen Gas, now FortisBC's electrical utility will create an unprecedented danger for their own gas division. Gas leaks are dangerous by themselves without the RF EMFs inducing charges that will spark and explode with workers burned or killed. **Page 1219, Line 18 to 21 Shkolnikov admits different standards for RF EMFs close to explosives. It isn't in their report.** That endangers everyone including First Responders assuming all codes and standards have been met. Fire Departments have not been consulted or informed but their members as well as police, city council families and everyone else has not been informed.

The electromagnetic induction of 17,000 sq. kms changes every science education as well as policy. No one informed or consulted academia at any levels.

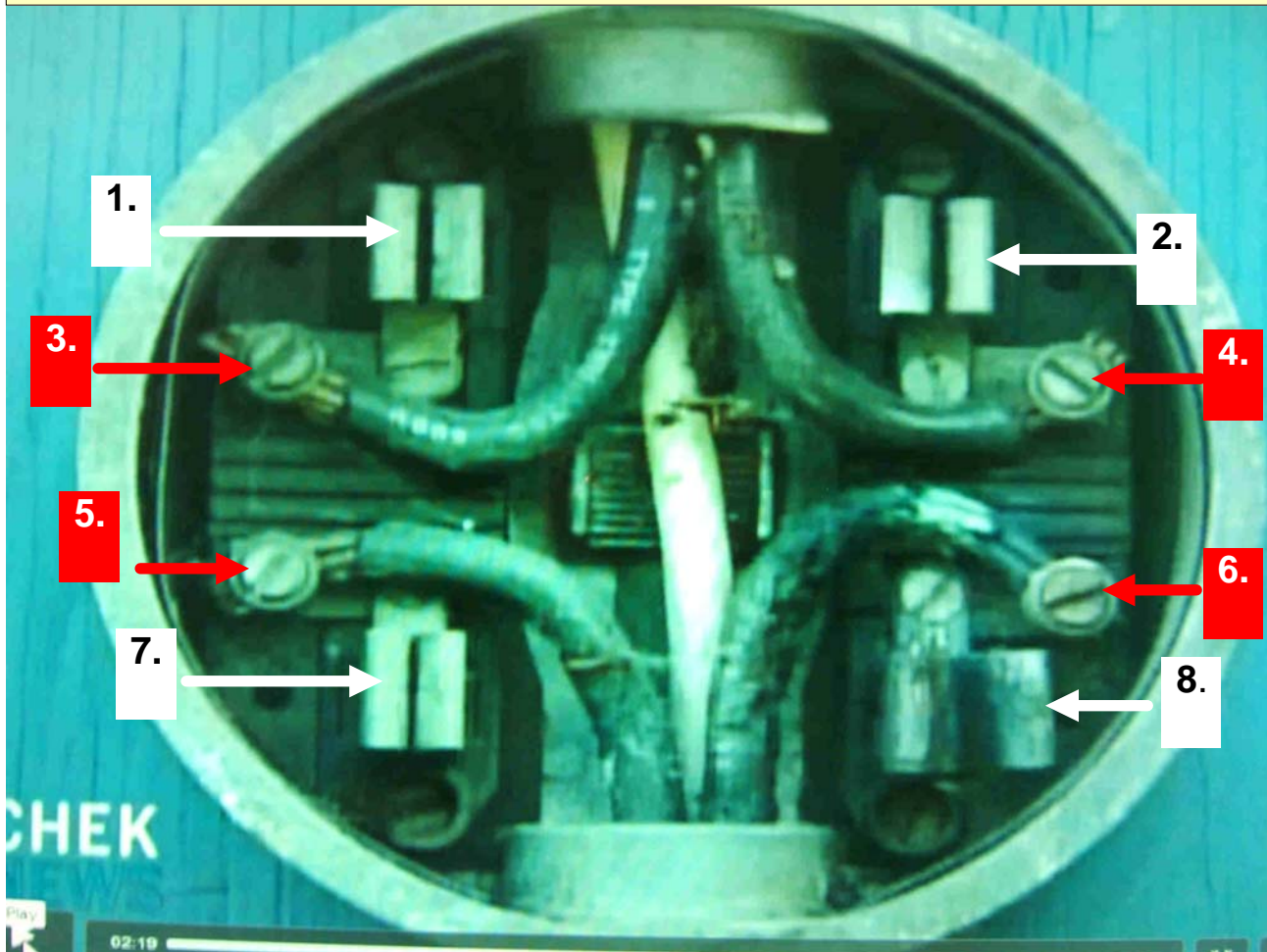
Kelowna needs to stop the installations immediately and homeowners need to block entry while calling the police on the real dangers with the NEGLIGENT meter exchange. **The BCUC will be asked to stop and reverse the application today** or they will account for any reckless decisions. Insurers haven't been informed as well. **Page 1213, Line 22 to Page 1215, Line 12 Bailey** Pollinators adapt to RF EMFs.

Sincerely,

Curtis Bennett
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Interprovincial Journeyman Electrician(Red Seal)
Engineering Technologist
Adjunct Professor for Integrative Health Forum & Global Education Development Institute
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Smart Meter, Meter Base, Installation, Arcs, Surges & Fires



Meter Base has 8 Connections REQUIRING Inspection & Maintenance

- 1&2.** Meter Base Stab Connections, **Line Side(top of Meter)**
3&4. Wired Connections for Power Supply From Utility to Meter Base
5&6. Wired Connections and Wires Go To Home Owner Electrical Panel
7&8. Meter Base Stab Connections, **Load Side(bottom of meter)**
***Note Bent Stab Connection at # 8? Caused by Pressure on Stab & Source of Fire.**

Media Article with FortisBC substantiating safety and procedures on Smart Meter Safety.
[Kelowna Daily Courier Article January 28, 2015](#)

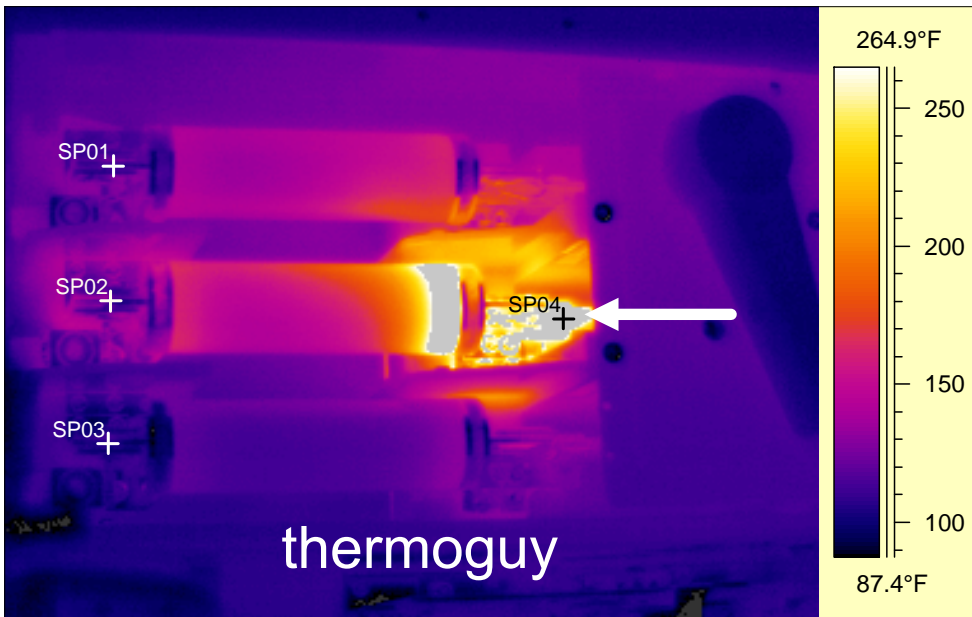
A Government Red Seal Interprovincial Journeyman Electrician challenged a Corix Contractor installing FortisBC installing smart meters in Kelowna. It is alarming and elevates the danger when the installer admits no credentials and trained not to touch the wired connections because they are live. The wires going into connections 3 & 4 supply the utility's power into the meter base. Connections 5 & 6 are the wires to house electrical panel. The meter's stab connections connect the electricity to the building.

FortisBC not addressing the wired connections adds to the immediate danger to the building, business, people, first responders. Electrical connections REQUIRE maintenance or electrical failure can shut down any industry. The next pages will show electrical connections failing. FortisBC has to redo all installations in their area. The [Recorded Conversation between Corix and the Government Electrician](#).
 One house meter will radiate 2-3 kms.

"Bringing the Invisible to Light Since 1979"

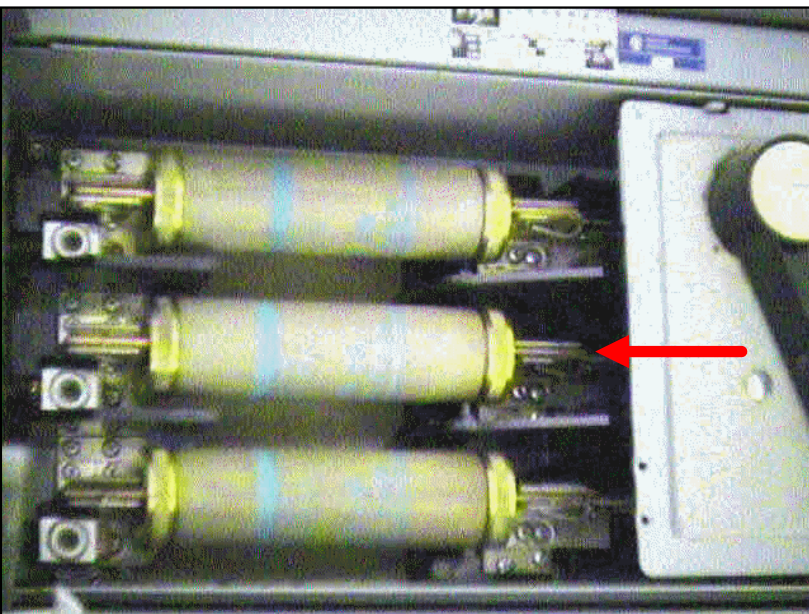


Smart Meter Fires & Stab Connections



On the left is a thermal image and a reference picture. Use the scale to the right of the thermal image for temperature reference.

This is a heavy industrial process inspected **yearly** for the industry and the insurer. Catching electrical failure before it happens prevents explosions, fires, injury, loss of life, production/economic losses.



IR information	Value
Date of creation	7/17/2002
Label	Value
IR : max	379.3°F
SP01	112.5°F
SP02	111.9°F
SP03	108.4°F
SP04	376.1°F

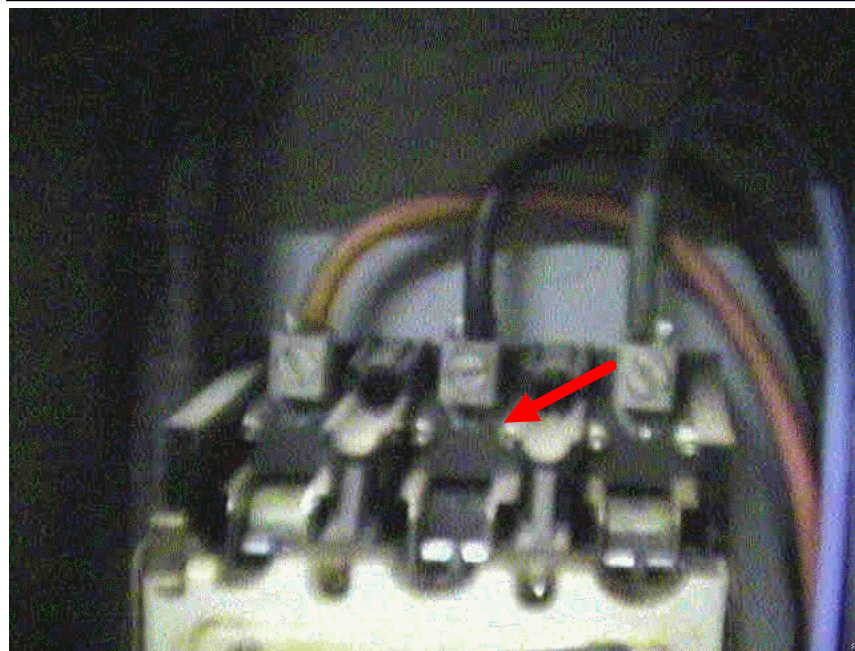
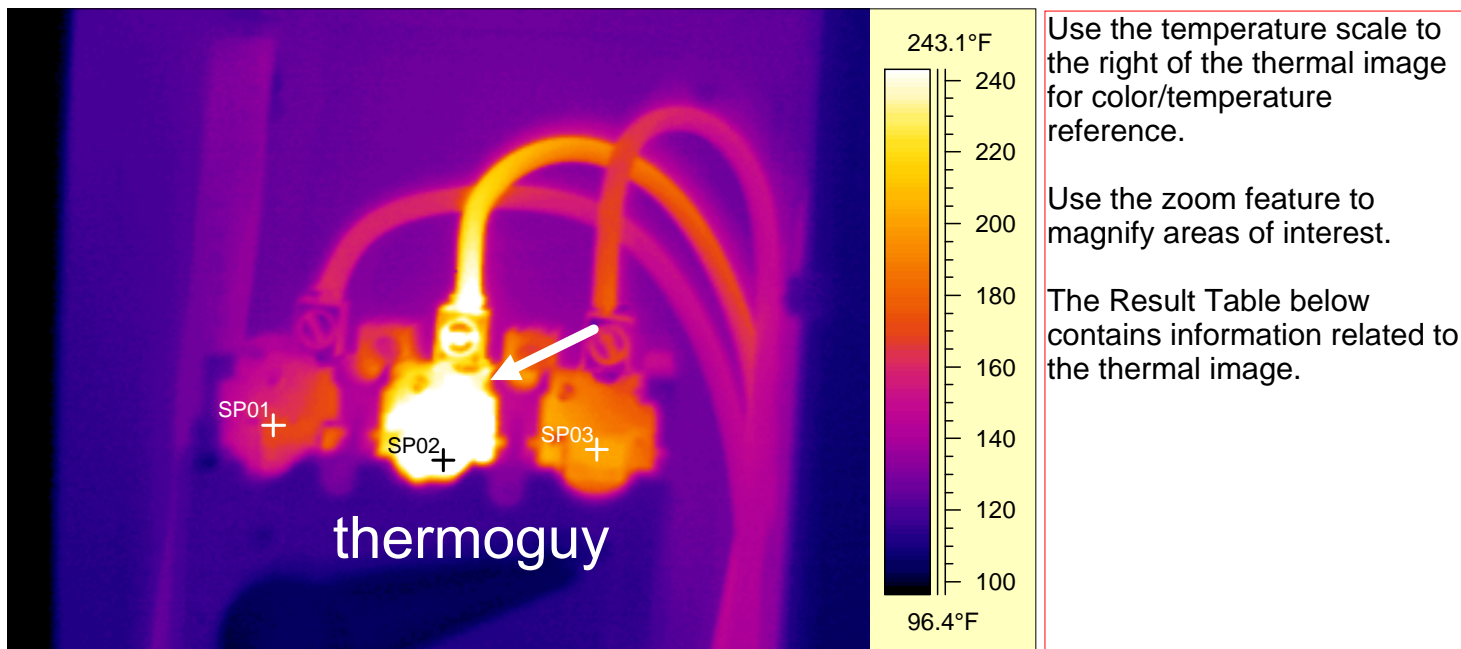
Part of our job as Thermal Radiation Consultants over the last 35 years includes trouble shooting electrical distribution under load to isolate problems for oil, gas, refinery, power plants, lumber, mills, mines, many manufacturing process, buildings, their insurers and the list goes on. Electrical equipment **REQUIRES** maintenance and catching problems before failure prevents significant losses.

Loose or corroded connections account are the biggest problem with electrical equipment. It is a thermal reality with electrical load cycles. Seeing heat at molecular levels allows isolation of electrical problems so the industry's electrical professionals can address the problem.

Meter bases have connections that have never been maintained. Those connections are fragile, require maintenance and are dangerous. Complicate that with contractors touching electrical equipment they shouldn't touch. Pulling meters under load is dangerous, increases damage and increases the chance for failure or fire.



Smart Meter Fires & Wired Connections

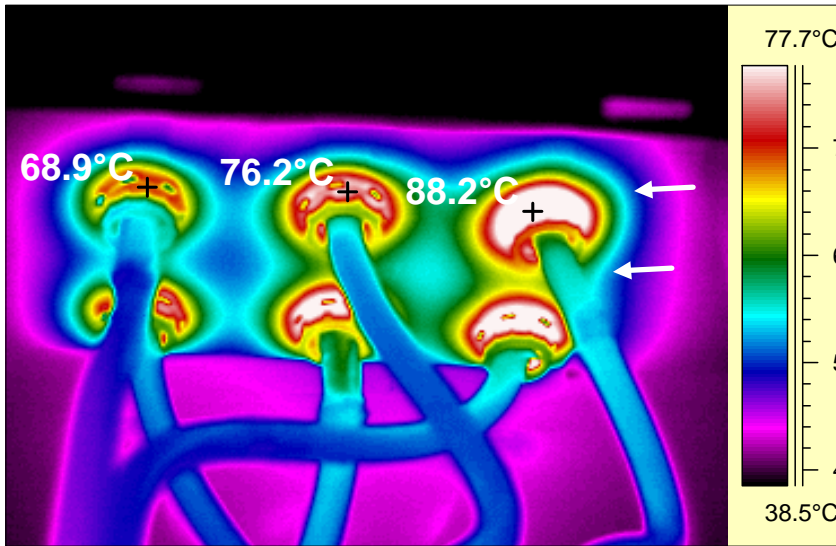


IR information	Value
Date of creation	4/23/2001
Time of creation	1:35:39 PM
Label	Value
IR : max	313.7°F
IR : min	88.4°F
SP01	169.6°F
SP02	313.7°F
SP03	202.5°F

Electrical Meter Bases have wired connections as well as stabs. Qualified electrical professionals would check ALL connections when the meter is pulled. (safely and working with the home owner) Before installing the new meter any electrical problems would be identified and repaired, even replacing the meter based if required. There are no compromises electrically or there will be failure with consequences that include fires that may happen immediately or later.

In the electrical example above, a faulty wired connection welded in a closed position so they couldn't turn the switch off. It required changing the disconnect live or there would have been electrical failure resulting in explosion, fire or both.

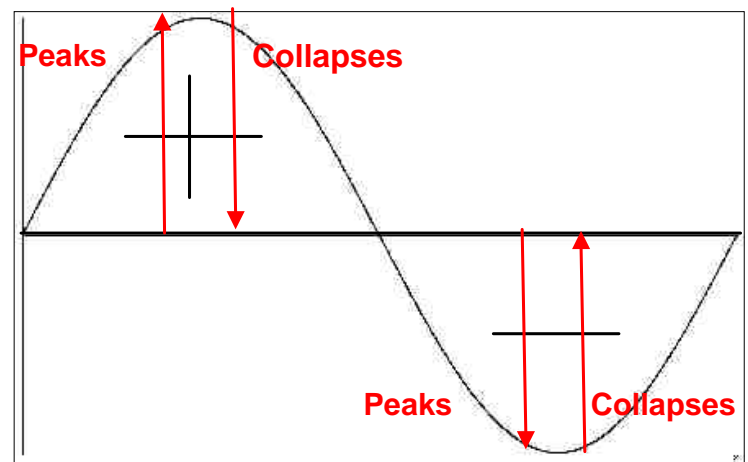
Meter bases on buildings decades old will have fragile electrical components and unqualified contractors create a dangerous environment changing the meters under load.



The diagram below is a 60 Hz electrical cycle.

You can see the cycle goes positive(+) and negative(-) with each cycle so everything the frequencies interact with will polarize twice per cycle.

The red arrows show the EMF peak and collapse twice per cycle.



1 cycle of a 60 Hz Frequency

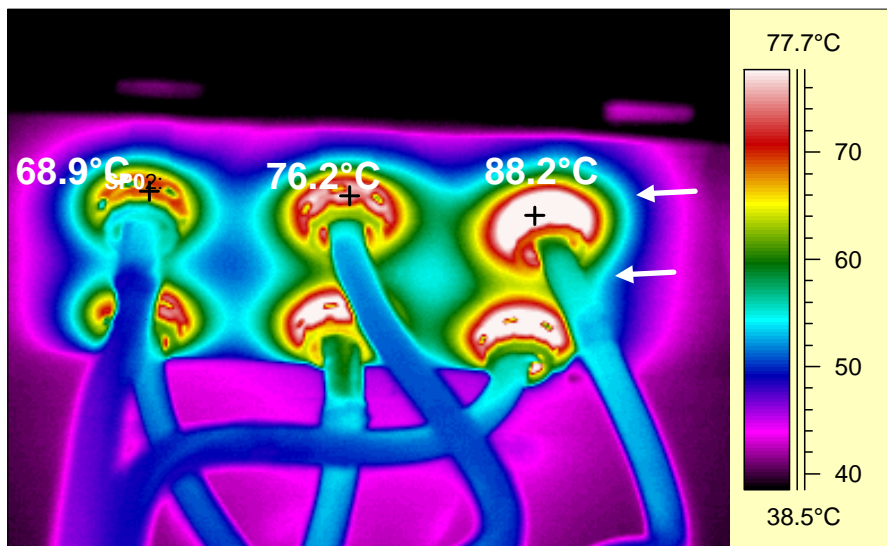
Example of Extremely Low Frequency (60 Hz) Causing Electrical Failure

Infrared electrical inspections for oil, gas, energy, petrochemical, manufacturing, lumber, mines, fire, insurers, etc have been used for decades to isolate electrical/mechanical/refractory problems before they fail. Failure can cause explosions, fire, injury, loss of life, production, economy, tax revenues, etc. Our 35 years participating in the pioneering, training and applying IR with applicable professionals has allowed industries, governments, and insurers substantial savings of 100s of billions.

EMF problems can be created at Extremely Low Frequencies(60 Hz) and here is an example when consulting for an industry, utility and insurer at the same time

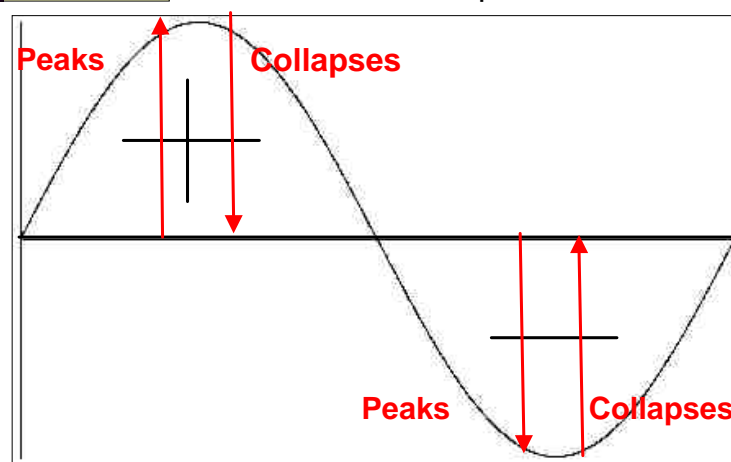
There are questions whether a magnetic or electromagnetic fields(EMFs) can interact with buildings, infrastructure, people, ecosystems or cause harm? EMFs can be extremely dangerous depending on the EMF and what the EMFs interacts with. A remote control for a television isn't blasting EMFs through you like an X-ray or other EMFs that go through people, biology or structure. Simply put we generate electricity with an EMF and an insulated known conductor. Extreme caution is required with EMF use because EVERYTHING in existence is atoms and molecules. Everything has its natural frequencies(EMFs) and a man made intrusion impacts literally everything in the coverage area. There are reasons we wire the world and life on the planet uses the earth's magnetic field.

The IR image above shows parallel feeds, big wires feeding a Motor Control Centre. When wires are run together the EMFs cancel each other out. When the wires are separated as above, the EMFs will interact with the metal cabinet so electricians install a non magnetizing insulating board where the wires enter the MCC.



FortisBC expert Electrical Engineer Dr. Yakov Shkolnikov of Exponent confirmed FortisBC will use 2 antennas in the meter, 900 MHz and 2.45 GHz. That is 900 Million Cycles per Second and 2.45 Billion Cycles Per Second.

Shkolnikov admits 900 MHz oscillates 1.8 Billion Times Per Second and 2.45 GHz oscillates 4.9 Billion Times Per Second. Those oscillations inside building structures causes high speed vibrations. Non Compliant With Code.



1 cycle of a 60 Hz Frequency

Grid For Smart Meters Non Compliant with Building Codes

British Columbia Building Code, Division B - Part 4 Structural Design

This section is about structural loads or procedures. Buildings will be designed for the loads or extremes they will be subjected to. FortisBC installation of wireless smart meters affects building code compliance in existing buildings and new building designs have to accommodate the high speed penetrating electromagnetic fields.

4.1.3.6. Vibration

- 1) Floor systems susceptible to vibration shall be designed so that vibrations will have no significant adverse health effects on the intended occupancy of the building.
- 2) Where the fundamental vibration frequency of a structural system supporting an assembly occupancy used for rhythmic activities, such as dancing, concerts, jumping exercises or gymnastics is less than 6 Hz, the effects of resonance shall be investigated by means of a dynamic analysis.
- 3) A building susceptible to lateral vibration under wind load shall be designed in accordance with Article 4.1.7.2. so that the vibrations will have no significant adverse health effects on the intended use and occupancy of the building.