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F/7a

Craig, Susan@Coastal

AUG 08 2012

From: Joshua Hart [joshuahart@baymoon.com]

Sent: Tuesday, August 07, 2012 10:33 AM

To: mark.stone@co.santa-cruz.ca.us

Cc: Craig, Susan@Coastal

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

Subject: Fwd: Severe environmental sensitivities recognized as a disability in the US since 2002

Dear Mark,

Thank you for taking the time to meet with me yesterday. I wanted to follow up on the issue of whether electro-sensitivity qualifies as a disability under the ADA. Please see below.

I am cc'ing Susan Craig on this e-mail.

Please vote to deny this project a coastal permit on Friday, for the beauty of the north coast, for accessibility to all, and to protect endangered species and our pristine Big Basin wilderness.

Thank you,
Josh

Begin forwarded message:

From: André Fauteux <info@21esiecle.gc.ca>

Date: August 7, 2012 3:19:34 AM PDT

To: André Fauteux <info@21esiecle.gc.ca>

Subject: Severe environmental sensitivities recognized as a disability in the US since 2002

Recognition of the Electromagnetic Sensitivity as a Disability Under the Americans with Disabilities Act

"The Board recognizes that multiple chemical sensitivities and electromagnetic sensitivities may be considered disabilities under the ADA if they so severely impair the neurological, respiratory or other functions of an individual that it substantially limits one or more of the individual's major life activities.

Source:

<http://www.electrosmogprevention.org/smart-meter-resources-links/ada-accommodations-info/recognition-of-the-electromagnetic-sensitivity-as-a-disability-under-the-ada/>

Taiwanese legislators ordered the removal of 1 500 mobile phone masts stating that homes and schools must not be exposed to the risk of radiation.

Source: www.times.co.sz/News/78164.html

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F17a

Craig, Susan@Coastal

AUG 08 2012

From: Crosse, Liza [LCrosse@marincounty.org]

Sent: Tuesday, August 07, 2012 4:05 PM

To: Joshua Hart; Kinsey, Steven

Cc: Craig, Susan@Coastal

Subject: RE: Coastal Commission Consideration of NextG antennas near Big Basin wilderness

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

Hello Mr. Hart,

Supervisor Kinsey will not be attending the August Coastal Commission meeting, but his alternate, Sarah Gurney, will be. You can reach Ms. Gurney at

Sarah Glade Gurney
Councilmember
City of Sebastopol, California
Alternate, North-Central Coast
California Coastal Commission
Office: 707.823.6500
sarahcoastalcom@yahoo.com

Regards, Liza

Liza Crosse
Aide to Supervisor Steve Kinsey
Marin County Board of Supervisors
3501 Civic Center Drive, Suite 329
San Rafael, CA 94903
Phone: 415-473-3246
lcrosse@marincounty.org

Please note my new email address and phone number.

From: Joshua Hart [mailto:joshuahart@baymoon.com]
Sent: Tuesday, August 07, 2012 11:06 AM
To: Kinsey, Steven
Cc: Crosse, Liza; Susan Craig
Subject: Coastal Commission Consideration of NextG antennas near Big Basin wilderness

Dear Steve,

Hope you are well. I sent an e-mail to you last week but I think I have the old e-mail address for you. We have been fighting and organizing near where we live in Davenport against NextG's proposal to construct 6 cell sites in Northern Santa Cruz County. This issue is before the Coastal Commission on Friday morning.

There are some potentially serious effects of the project, including loss of public accessibility to some of these remote beaches, effects on red legged frogs and other endangered species in Waddell Creek at Big Basin SP, and aesthetic damage to views of the ocean and the coastal environment.

8/8/2012

2

I know you are busy but would appreciate 5 or 10 minutes of your time to discuss the project. I am at 831 421 0822.

I am cc'ing Susan Craig on this e-mail, consistent with ex parte communication requirements.

best wishes

Josh

Joshua Hart MSc
Director, Stop Smart Meters!
<http://stopsmartmeters.org>

Stop Smart Meters! is a grassroots-funded campaign.
Your generous support is critical to our success.
Every little bit helps! <http://stopsmartmeters.org/donate>

Email Disclaimer: <http://marincounty.org/nav/misc/EmailDisclaimer.cfm>

F179

Declaration of Mary Kay Hankins

I, Mary Kay Hankins, have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law. I hereby declare:

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CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

1. My name is Mary Kay Hankins, and I reside at 2730 Colony Road, Ann Arbor, MI.

2. I formerly greatly enjoyed going to these beaches as we had rented a cottage at Seabright Beach in Spring of 2011 (in order for me to recover my health which was in rapid decline due to the Smart Meter rollout in San Jose of 2010. We have since abandoned our house there). These beaches were so beautiful, so calming and so restorative for me. It was heaven to talk along them and I felt so lucky to have lived in the Santa Cruz community and experienced its unbelievable beauty and healing properties.

3. Following the installation of Smart Meters, I now suffer from electromagnetic hypersensitivity (EHS), diagnosed by a legitimate MD. After I was unsuccessful in getting the meter taken off (PG&E insisted they were "safe" at 6', then "safe" at 10 feet – the meter was approximately 4 feet from our kitchen table and I worked out of the house.) We were finally forced to leave our house, causing tremendous emotional and financial upheaval for my husband and I. One of the greatest heartaches was having to stop our adoption. We were finally making progress on a private adoption after years of heartache with infertility and adoption agency dead ends. We are now moving from place to place, what kind of life is that for a young child? I am so saddened and angry.

When exposed to ubiquitous wireless, electromagnetic fields from cell phones, wifi, cell towers, and smart meters, I now develop the following symptoms instantly:

- Loud ringing in my ears
- Pressure on my head and chest and the sensation of being "underwater"
- Tingling in my head
- Confusion
- Agitation
- Heart palpitations
- Itchiness
- Dizziness
- Nausea
- Internal "vibration like" sensations
- Insomnia

4. I have been injured by electromagnetic frequency emitted by wireless communications and, sadly, there is no cure for EHS, the only peace that can be found is in avoidance. I therefore must limit further exposure to this type of radiation, by avoiding areas and places where such radiation is present. We may be forced to spend thousands of dollars to outfit a house with copper mesh in order for me to have a safe haven and be able to rest as cell towers and transmitters have turned up everywhere in the past 2 years.

When I visit places I used to love and lived in peacefully and happily, I see large cell transmitters on beautiful old public buildings in shameful disguises of paint to match the buildings; I see 4G cell towers with transmitters so close to the ground, you could practically touch them – when did they become that safe??; apartment buildings with upwards of 20 cell transmitters on the top, just above tenant windows; I see streetlights with antennae on the top; hundreds of new tall light fixtures in parking lots and along highways with spaceship like antennae on the top; white drums attached to utility poles and on top of traffic lights...all part of DAS (Distributed Antenna Structure) infrastructure. All topped off with smart meters on almost every house and business. Has anyone looked at the harm of the exponential growth and the aggregate of these myriad radiating sources? It makes me so sad.

5. Given the substantial peer-reviewed research showing a direct correlation between wireless radiation and a myriad of negative health impacts, I have chosen to eliminate/limit wireless radiation from my home/lifestyle and to avoid areas where such radiation is present whenever possible – we have moved 3 times.

6. If NextG's proposed project to install 6 cell sites along Highway One between Santa Cruz and the San Mateo County line is granted a coastal permit by the California Coastal Commission, I will no longer enjoy the level of access to the coast that I currently enjoy and I will be disheartened and disgusted. So much of the wonderful places in the US are being destroyed by this completely ungoverned industry. Not everyone feels the need to watch movies on a cell phone. There are many people that still value true nature and tranquility and having the ability to find it in these beautiful places. Santa Cruz was a haven for me and restored my health in 2011 – now with its blanket of smart meters and new cell transmitters, it is a polluted city that I can no longer spend time in. As a former technology executive, briefly in the wireless industry, I am shocked and sickened by this accelerated pervasiveness of wireless which keeps upping the ambient RF levels everywhere, making more people sick and making it harder and harder for sufferers to find peace. We do have data on the harmful effects of radiation on organisms including humans, we have known it for years, yet we choose to ignore it. California is a properous state with unrivaled beauty. Unlike many other states (for example in the middle of the country), California does not need to sell its soul for money. It has the power to say no to these aggressive companies and still thrive. It can remain the place of incredible prosperity, creativity and entrepreneurship and also be the land of amazing beauty and wellness for all to enjoy – one of the "most

beautiful places on earth" as I saw it referred to once.

I declare under penalty of perjury that the foregoing is true and correct. I have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law.

This declaration was executed this 5th day of August, 2012 at Milpitas, CA. (Hotel stay)

Mary Kay Hankins
Aug 6, 2012

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AUG 08 2012

F17a

Dear Susan Craig and Coastal Commission,

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

My name is Dr. Kerry Kriger and I am the founder of SAVE THE FROGS!, based in Santa Cruz. I am writing in opposition to Project #111114. Save The Frogs is America's first and only public charity dedicated to amphibian conservation. Our mission is to protect amphibian populations and to promote a society that respects and appreciates nature and wildlife. Save the Frogs is opposed to NextG's proposed construction of 6 new cell sites along Highway 1 and Swanton Rd. in Santa Cruz County (project #111114). I urge you to withhold a coastal permit for this project as it violates several sections of the Coastal Act related to coastal views, habitat preservation, and coastal access.

Save the Frogs is particularly alarmed at the proximity of the northernmost cell site to the Waddell Creek wetlands, which is home to many amphibian species including the federally listed California Red Legged Frog (*Rana draytonii*). Studies by Alfonso Balmori, a Spanish researcher, indicate that tadpoles exposed to cell radiation from nearby base stations suffer high mortality rates and developmental problems.¹ The cell site proposed for Swanton Rd. is also close to wetlands at Scott Creek, a habitat for many wetlands species.

Radiofrequency microwave radiation from cell sites, phones, smart meters, wi-fi and other wireless devices is now designated by the World Health Organization as a Class 2B carcinogen in the same category as lead, DDT, and chloroform. Many peer-reviewed studies show damage to human and environmental health from cell tower radiation.

Our members enjoy our local coastline as it is- we are opposed to the effect that new, permanent structures in this pristine area of our County's coast will have on the aesthetics of the area, and the level of clutter. Since the mock-ups went up on poles in the area, the coast feels less natural and more industrial in nature. In several areas the battery boxes, wires, and cell site panels are currently obstructing views. We respectfully request that you have these mock-ups removed as soon as possible and deny NextG's permit request.

Adding 4G service to remote sections of Highway 1 may very well compromise traffic safety by introducing a new distraction potential for drivers. There are already call boxes along highway 1- and existing cell service in many places. We do not need 4G streaming video on our remote beaches to keep us safe- in this case the costs outweigh the benefits. I urge you to reject this project as it is inconsistent with the Coastal Act, potentially damaging to wildlife and inappropriate for the setting.

Sincerely,

Kerry Kriger

Dr. Kerry Kriger

5-August-2012

¹ Balmori, A. (2006). The incidence of electromagnetic pollution on the amphibian decline:



Dr. Kerry Kriger
Executive Director
831-621-6215

303 Potrero Street #51
Santa Cruz, CA 95060 USA
E-mail: kerry@savethefrogs.com

savethefrogs.com

Declaration of Joshua N. Hart

I, Joshua N. Hart have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law. I hereby declare:

1. My name is Joshua N. Hart and I reside in Davenport, California. My address is P.O. Box 30 Davenport, CA 95017.
2. I currently enjoy access to beaches along the Northern Santa Cruz County coastline, as well as open space and residential areas within the Coastal Zone.
3. I frequently visit Waddell Beach at Big Basin State Park, as it is an oasis for kite-boarders, wildlife, and visitors with various disabilities including electro-hyper-sensitivity who come to the area to recover from wireless exposure.
4. I believe I was injured by a bank of PG&E SmartMeters in June 2011 in Berkeley, CA at an apartment building with over 80 units, while measuring pulses of microwaves with an EMF analyzer.
5. Since June 2011 I have experienced sensitivity to electromagnetic fields particularly 'smart' phones, 4G antennas, wi-fi, and 'smart' meters.
6. When in the presence of wireless devices or signals I experience the following symptoms: headaches, nausea, chest pain, tinnitus, exhaustion, and cognitive disruption.
7. The last symptom occurred near 4G cell towers along Highway 85 in Silicon Valley, and recurs whenever I travel there. As a result I avoid the location, which limits my accessibility to destinations in the South Bay and beyond.
8. I moved with my girlfriend from Scotts Valley after PG&E installed SmartMeters there. Following installation, I would get painful, pinching headaches in my temple when out in the neighborhood.
9. I am aware of the existence of a growing record of peer-reviewed studies showing a negative health impact from wireless technology, including the announcement in May 2011 that wireless devices emit a Class 2B carcinogen.

10. I feel that the mock-ups of six proposed cell sites have eroded my enjoyment of the North Coast area of Santa Cruz County, and have damaged viewsheds.
11. If the six proposed cell sites are given a coastal permit by the Coastal Commission on August 10th 2012, I feel I will no longer realistically have access to areas nearby these cell sites. This will directly impact not only my enjoyment of the area but my ability to carry out daily tasks that require exposure to these cell sites, and coastal areas nearby.
12. I feel that approval of NextG's proposed project would violate Coastal Act sections 30211 and 30252 as it would approve a project that would 'interfere with the public's right of access to the sea.'
13. Considering that some estimates place the level of electro-sensitivity in society at 5% or more, this is a significant population that may potentially be denied access and/or enjoyment of the California coast as a result of wireless proliferation.

This declaration was executed this 1st day of August, 2012 at Davenport, California.



signed Joshua N. Hart

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CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

Susan Craig
Supervising Coastal Planner
California Coastal Commission
725 Front Street
Suite 300
Santa Cruz, CA 95060
831-427-4863
scraig@coastal.ca.gov

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CENTRAL COAST AREA

F179

Appeal A-3-SCO-12-006 NextG
Santa Cruz County
Application #111114

August 8, 2012

Note: This material has been provided to the Coastal Commission Staff (original plus 21 copies of Attachment 1) on 8/8/12 and is entered Ex Parte.

Dear Ms. Craig,

I recommend that the Commissioners take jurisdiction over the Coastal Development Permit (CDP) for this project for these reasons:

- NextG/Crown Castle has submitted misleading and inadequate information to the Santa Cruz County Planning Department (SCCPD) and to the California Coastal Commission (CCC).
- Application 111114 and Appeal A-3-SCO-12-006 raise regional and statewide issues of significance.
- Substantial issues have been raised regarding Santa Cruz County's Local Coastal Plan (LCP) conformance due to the significance of the coastal resources affected by the decision.
- NextG/Crown Castle has unlawfully commenced installation for this project prior to the hearing of this appeal.
- The precedential value of the local government's decision for future interpretations of its LCP.

NextG/Crown Castle has submitted misleading information in their application (#111114) to the SCCPD and in their response to the CCC Appeal A-3-SCO-12-006.

Attachment 4 of Application #111114 and Exhibit 10 of Appeal A-3-SCO-12-006 are: Engineering Report; Radio Frequency Exposure Study; VRZ – Kathrein Scala 840 10525; Roofview Statistical Summary by Trott Communications Group, Inc. Irving, TX. This report calculates that the Radio Frequency (RF) exposure for the public will not exceed the Federal Communications Commission (FCC) Maximum Public Exposure (MPE) limit at ground level. However, at a community meeting on April 19th at the Davenport Resource Center a NextG Networks representative, Natasha Ernst, Esq., Director of Government Relations, handed me an engineering report by Health and Medical Physics Consulting (HMPC), Sacramento, CA (Attachment 1) dated August 12, 2011. In this report the RF exposure is calculated to be greater than the FCC MPE limit within 8 feet of the 2 antennas located at each site. Both engineering reports are for the Kathrein 84-10525 antenna configuration.

NextG maintains that the FCC MPE limits only apply to ground level exposure, however there is no basis for this. Many RF antennas are located in areas where the public has no access, such as on towers and poles and

rooftops. However the applicants antennas are proposed to be installed on utility poles where the public has easy access. It is completely feasible that a member of the public could climb one of these poles. In particular Site DAV02 and Site DAV03 (Exhibit 1 of Appeal A-3-SCO-12-006), due to the equipment located under the antennas, could be considered attractive nuisances regarding public access. Due to this easy public access to the antennas it is established that the FCC MPE is calculated to be exceeded at these sites.

Section 704, (B) (iv) of the Federal Telecommunications Act (FTA)* specifically allows the regulation of wireless services facilities on the basis of environmental effects if the RF emissions do not comply with the FCCs regulations concerning such emissions. It is now not only in the purview of this Commission to consider the environmental impact of these antennas, it is also imperative that it do so.

The wireless industry is facing the need of providing enough bandwidth for the ever growing usage of wireless devices that stream video and games for 4G networks. The industry trend is to move to Distributed Antenna Systems (DAS) as is the case with this application. DAS are being installed on utility poles in the near vicinity of people's homes and in protected wilderness areas. Due to the need to provide enough bandwidth for 4G networks, the antennas radiate higher levels of RF than 3G networks, which have typically been placed in locations prohibited to the public's access such as on towers and rooftops. The RF emissions from DAS antennas are leading to higher public exposures and to increasing potential adverse effects on endangered species.

This move to DAS antennas, which exceed the FCC MPE is of significance for the region and the state. Thus the onus is on the CCC to recognize this and to therefore review the scientific literature on exposures to RF prior to permitting DAS systems to be installed in sensitive habitat areas and publicly accessible areas.

Section 30240(b) of the CA Coastal Act states:

"Development in areas adjacent to environmentally sensitive habitat areas and parks and recreation areas shall be sited and designed to prevent impacts which would significantly degrade those areas, and shall be compatible with the continuance of those habitat and recreation areas."

The scientific literature on RF exposure is vast (1,000s of studies and dating back decades – ref. <http://www.bioinitiative.org/>, <http://emfwise.com/science.php>, <http://www.iustproveit.net/content/science> and <http://www.powerwatch.org.uk/science/studies.asp>) and consistently shows evidence of harm to animals, insects, plants, amphibians and humans at levels of exposure well below the FCC MPE. The FCC MPE is purported to protect humans from thermal heating from RF exposure. There are no exposure guidelines for the proven non thermal effects to RF exposure for humans and there are no exposure guidelines (thermal and non thermal) for other forms of life (nonhuman). This lack should not be accepted as protection. The EPA is on record in stating that the FCC MPE should not be considered protective (see – http://www.emrpolicy.org/litigation/case_law/docs/noi_epa_response.pdf). RF absorption stimulations show that children absorb quantitatively higher amounts of RF than adults do and therefore have lower thermal exposure thresholds (see – <http://informahealthcare.com/doi/abs/10.3109/15368378.2011.622827?prevSearch=allfield%253A%2528om%2Bgandhi%2529&searchHistoryKey=>). As most nonhuman beings are smaller than humans it is plausible to assume that they would also have much lower thermal thresholds than adults.

Appendix 1 of this testimony lists reports and studies that show RF exposure impacts on plants, insects, amphibians, birds and mammals. As these non human beings may very well frequent the areas that exceed the FCC MPE it is of the utmost import that the CCC investigate the potential adverse effects on them with particular focus on species on the endangered species list. These non human inhabitants of the Coastal area are an essential part of the viewshed that is entrusted to be protected by the CCC. In the absence of Federal guidance on protective RF exposure for non human beings and in light of the evidence of harm from RF exposure the CCC has a need to consider the environmental effects from DAS antennas and to restrict such antennas in sensitive habitat areas.

Electrosensitivity to RF emissions has been documented in peer-reviewed, published scientific studies and acknowledged as a disability and functional impairment by a growing number of governments around the world, including Spain and Sweden. Lack of access resulting from adverse health consequences of wireless technology

is subject to the rules and regulations of the Americans with Disabilities Act.

Any decision made by a local or state government that restricts access granted to, or mobility of a class of citizens because of a medical condition or disability is a violation of the Americans with Disabilities Act, and of Coastal Access provisions in sections 30211 and 30252 of the Coastal Act:

"...development shall not interfere with the public's right of access to the sea..." (sec. 30211) and "new development should maintain and enhance public access to the coast." (sec. 30252)

A growing population of humans have become sensitized to RF and require areas with low RF exposure. A good analogy of this phenomenon is made by examining human exposure to the slightly higher in frequency electromagnetic radiation emitted by the sun. It is well established that no two people have the same sensitivity to sunlight. People who have higher sensitivity go to great measures to avoid high exposure. They wear shielding materials and do not go into sunlight during peak exposure periods. However even those who are less sensitive to sunlight still suffer adverse biological harm from overexposure. Our biology requires that we have a recovery period in between exposures. If there is an extreme overexposure this recovery period may be for the rest of the person's life.

Another comparison can be made in the biological reaction to RF and to sunlight. It is well established that the biological effects of sun exposure are not immediately apparent. Sunburn and blistering often occur after exposures rather than during exposures. The person being exposed is not aware of the severity of the exposure until after they are out of it. This delayed reaction also occurs with RF exposures. Many people, myself included, find that they cannot sleep if they have high RF exposure during the day. Many people develop microwave hearing or ringing in the ears after RF exposure. This phenomenon may last for hours, days or even years after a high RF exposure. It is essential that areas low in RF are preserved for people who have been exposed to RF to the point where they have become sensitized to all RF emissions.

While it is not in the purview of the CCC to determine what the "safe" level of RF exposure is for an individual it is in their purview to preserve access to coastal areas for all regardless of their disability. For this reason the CCC needs to consider it a priority to preserve low RF areas. There already exists 911 service for cell phone users in the area under consideration for NextG's DAS. According to the CCC staff report, "NextG has not established that denial of this project would be inconsistent with the provisions of the FTA related to establishing wireless service."

Appendix 2 lists evidence of the growing population of humans who have become sensitized to RF emissions.

The CCC staff report on Appeal A-3-SCO-12-006 NextG advises the Commissioners that no substantial issues have been raised regarding Santa Cruz County's Local Coastal Plan (LCP) conformance due to the significance of the coastal resources affected by the decision. This is not true.

There are substantial issues raised by Appeal A-3-SCO-12-006 NextG regarding the LCP. The staff report claims that "...co-locating relatively small and relatively unobtrusive cellular antennas and equipment with existing utility pole infrastructure will not significantly impact visual resources..." While this may be true for the opinion of staff it does not hold true for me or for others. The mock ups of the DAS along the North Coast create a cluttered and unsightly viewshed. Utility poles with large boxes and antenna arrays do not blend into the scenery. They are blights that diminish the wild natural scenery of the North Coast.

The non-flush mounted antennas at four highway sites and the 2 foot pole extension at the Swanton Road site are not consistent with the LCP's wireless ordinance. Additionally, the LCP requires that PG&E and other utilities move to buried lines. (Section 5.10.24 "requires underground placement of all other new or supplementary transmission lines within views from scenic roads where it is technically feasible...". **NextG has already unlawfully installed fiber optic cable strung from utility poles in spite of the unsettled status of CCC Appeal A-3-SCO-12-006.** NextG has shown not only a lack of regard to the LCP, it has also shown complete disregard to the authority of the CCC and California law.

If this appeal is denied and NextG's projects continues there will be a precedential effect of the Santa Cruz County LCP. The SCCPD should not be given the okay to permit projects that are substantially at odds with their LCP as they have done with this one. The viewshed and access to the coastal regions need protection from ever encroaching overdevelopment.

I move that the CCC determine that Appeal A-3-SCO-12-006 raises substantial issue with the respect to the grounds on which the appeal was filed under sections 30603 of the Coastal Act regarding consistency with the Certified Local Coastal Plan and the public access and recreation policies of the Coastal Act.

In particular, NextG/Crown Castle has submitted misleading and inadequate information to the Santa Cruz County Planning Department (SCCPD) and to California Coastal Commission (CCC); Application 111114 and Appeal A-3-SCO-12-006 raise regional and statewide issues of significance; substantial issues have been raised regarding Santa Cruz County's Local Coastal Plan (LCP) conformance due to the significance of the coastal resources affected by the decision; NextG/Crown Castle has unlawfully commenced installation for this project prior to the hearing of this appeal; and, due to the precedential value of the local government's decision for future interpretations of its LCP.

Submitted by

Angela Flynn
Green Evolution
351 Redwood Heights Road
Aptos, CA 95003
831-325-2880
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Attachment 1: Jerrold T. Bushberg, Ph.D., DABMP, DABSNM; Health and Medical Physics Consulting RF engineering calculations. 8/12/11

Appendix 1: RF exposure reports and studies on plants, insects, amphibians, birds and mammals.

Appendix 2: Evidence of the growing population of humans who have become sensitized to RF emissions.

*Section 704 of the Telecommunications Act

(B) Limitations –

(iv) No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless services facilities on the basis of the environmental effects of RF emissions to the extent that such facilities comply with the [Federal Communications] Commission's regulations concerning such emissions.

Addendum: In addition to visual blight, overloading of power lines and utility poles creates a potential increase in fire danger as the additional weight makes the lines and poles more likely to blow over in storms. Adequate safety must be ensured prior to installation. CCC should include consideration of the Malibu Canyon fire where Sprint, AT&T and Verizon Wireless have agreed to pay a \$12 million settlement with the state. Edison and NextG have not settled and face \$75 million in fines if found guilty.

See – <http://rcmiller1234.wordpress.com/2012/07/02/malibu-power-poles/>

Sprint, AT&T and Verizon Wireless have reached an agreement that the firms are collectively responsible for paying \$12 million worth of civil penalties for their lack of maintenance on the poles, which led to overloading. Southern California Edison and the phone company NextG, who are not a part of the proposed agreement, face up to \$74 million for overloading the poles that fell in the 2007 fires.

RF exposure reports and studies on plants, insects, amphibians, birds and mammals.

<http://www.kompetenzinitiative.net/broschuerenreihe/brochure-series/english/bees-birds-and-mankind.html>

Bees, Birds and Mankind Destroying Nature by 'Electrosmog'

Ulrich Warnke

Effects of Wireless Communication Technologies

"Today, unprecedented exposure levels and intensities of magnetic, electric, and electromagnetic fields from numerous wireless technologies interfere with the natural information system and functioning of humans, animals, and plants. The consequences of this development, which have already been predicted by critics for many decades, cannot be ignored anymore. Bees and other insects vanish; birds avoid certain places and become disorientated at others. Humans suffer from functional impairments and diseases. And insofar as the latter are hereditary, they will be passed on to next generations as pre-existing defects"

<http://www.livingplanet.be/Panagopoulos2008b.pdf>

Mobile telephony radiation radiation on living organisms

Dimitris J. Panagopoulos and Lukas H. Margaritis

http://www.tehelka.com/story_main50.asp?filename=Ws121011Environment.asp

New Delhi, India group set up by the Environment and Forest Ministry recommends special laws to protect urban flora and fauna from the threats of electro magnetic field (EMF) and radiation emerging from mobile towers.

<http://www.ncbi.nlm.nih.gov/pubmed/20560769>

Mobile phone mast effects on common frog (*Rana temporaria*) tadpoles: the city turned into a laboratory.

Electromagn Biol Med. 2010 Jun;29(1-2):31-5.

Balmori A., C/Navarra, Valladolid, Spain. abalmori@ono.com

<http://www.ncbi.nlm.nih.gov/pubmed?term=22268919>

Electromagn Biol Med. 2012 Jun;31(2):151-65. Epub 2012 Jan 23.

GSM 900 MHz radiation inhibits ants' association between food sites and encountered cues.

Cammaerts MC, De Doncker P, Patris X, Bellens F, Rachidi Z, Cammaerts D.

Source Universit  Libre de Bruxelles, Facult  des Sciences, Bruxelles, Belgium. mtricot@ulb.ac.be

<http://www.agirinfo.com/?cat=9&art=1118>

<http://www.mieuxprevenir.blogspot.com/2012/02/mobile-phone-antennas-blamed-for.html>

Mobile Phone Antennas Blamed for Presence of Cataracts in Calves

Faculty of Veterinary Medicine, University of Zurich

www.nature.com/srep/2012/120315/srep00312/full/srep00312.html

Fetal Radiofrequency Radiation Exposure From 800-1900 Mhz-Rated Cellular Telephones Affects

Neurodevelopment and Behavior in Mice

Tamir S. Aldad, Geliang Gan, Xiao-Bing Gao & Hugh S. Taylor

Scientific Reports, Nature Publishing Group, Mar 15, 2012

<http://www.ncbi.nlm.nih.gov/pubmed/22263702>

Brain proteome response following whole body exposure of mice to mobile phone or wireless DECT base radiation

Adamantia F. Fragopoulou, Athina Samara, Marianna H. Antonelou, Anta Xanthopoulou, Aggeliki Papadopoulou,

Konstantinos Vougas, Eugenia Koutsogiannopoulou, Ema Anastasiadou, Dimitrios J. Stravopodis, George Th.

Tsangaris & Lukas H. Margaritis

Published in Electromagnetic Biology and Medicine, Early Online: 1-25, 2012 Copyright Q Informa Healthcare USA, Inc.

www.emf-portal.de/viewer.php?l=e&aid=19140
Nonthermal GSM RF and ELF EMF effects upon rat BBB permeability.
Nittby H et al.
Environmentalist 2011; 31 (2): 140–148

<http://www.springerlink.com/content/bx23551862212177/fulltext.pdf>
Mobile phone-induced honeybee worker piping
Daniel FAVRE
Apidologie (2011) 42:270–279 DOI: 10.1007/s13592-011-0016-x

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A possible effect of electromagnetic radiation from mobile phone base stations on the number of breeding House Sparrows (*Passer domesticus*)
Joris Everaert and Dirk Bauwens (2007)
Electromagnetic Biology and Medicine 26:63–72

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Alfonso Balmori and Örjan Hallberg (2007)
Electromagnetic Biology and Medicine 26:141–151

Possible Effects of Electromagnetic Fields from Phone Masts on a Population of White Stork (*Ciconia ciconia*)
Alfonso Balmori (2005)
Electromagnetic Biology and Medicine 24:109–119

Electromagnetic pollution from phone masts. Effects on wildlife
Alfonso Balmori (2009)
Pathophysiology 16:191–199

The following studies are available through – <http://emf-portal.de/suche.php?sform=6&go=ORI&l=e>

Lizards respond to an extremely low-frequency electromagnetic field.
med./biol.Nishimura T, Okano H, Tada H, Nishimura E, Sugimoto K, Mohri K, Fukushima M (2010), J Exp Biol 213 (Pt 12): 1985 – 1990 Exposure: low frequency field

Changing and shielded magnetic fields suppress c-Fos expression in the navigation circuit: input from the magnetosensory system contributes to the internal representation of space in a subterranean rodent.
med./biol.Burger T, Lucova M, Moritz RE, Oelschlager HH, Druga R, Burda H, Wiltshko W, Wiltshko R, Nemec P (2010), J R Soc Interface 7 (50): 1275 – 1292 Exposure: magnetic field, geomagnetic field

Extremely low-frequency electromagnetic fields disrupt magnetic alignment of ruminants.
med./biol.Burda H, Begall S, Cervený J, Neef J, Nemec P (2009), Proc Natl Acad Sci U S A 106 (14): 5708 – 5713
Aim: To show that extremely low frequency magnetic fields generated by high-voltage lines disrupt alignment of the bodies of ruminants with the geomagnetic field. Endpoints: cognitive/behavioural endpoints (body alignment of ruminants in the geomagnetic field) System: animal (species/strain): cattle and roe deer
Exposure: 50 Hz, magnetic field, geomagnetic field, low frequency field, 50/60 Hz (AC), power transmission line, high voltage

Radio frequency magnetic fields disrupt magnetoreception in American cockroach.
med./biol.Vacha M, Puzova T, Kviclova M (2009), J Exp Biol 212 (Pt 21): 3473 – 3477

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Disruption of magnetic orientation in hatchling loggerhead sea turtles by pulsed magnetic fields.

med./biol.Irwin WP, Lohmann KJ (2005), J Comp Physiol A Neuroethol Sens Neural Behav Physiol 191 (5): 475 – 480
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Endpoints: cognitive/behavioural endpoints (magnetic orientation/magnetoreception)
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(species/strain): sea turtle/loggerhead (*Caretta caretta*)
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Magnetic compass orientation of migratory birds in the presence of a 1.315 MHz oscillating field.
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Exposure: 1.315 MHz

Magnet-induced disorientation in hatchling loggerhead sea turtles.
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Orientation of *Paramecium* swimming in a DC magnetic field.
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Exposure: 60 Hz, 50/60 Hz (AC)

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med./biol.Wiltchko W, Munro U, Ford H, Wiltchko R (1998), J Exp Biol 201: 3257 – 3261
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med./biol.Phillips JB (1986), Science 233 (4765): 765 – 767
Exposure: magnetic field, geomagnetic field

Methods for producing disturbances in pigeon homing behaviour by oscillating magnetic fields.
med./biol.loale P, Guidarini D (1985), J Exp Biol 116: 109 – 120
Exposure: low frequency field

Flight, orientation, and homing abilities of honeybees following exposure to 2.45-GHz CW microwaves.
med./biol.Gary NE, Westerdahl BB (1981), Bioelectromagnetics 2 (1): 71 – 75
Exposure: 2.45 GHz

Orientation of homing pigeons altered by a change in the direction of an applied magnetic field.
med./biol.Walcott C, Green RP (1974), Science 184 (133): 180 – 182
Exposure: magnetic field

Evidence of the growing population of humans who have become sensitized to RF emissions.

<http://mcs-america.org/July2012.pdf>

MCSA NEWS

VOLUME 7 ISSUE 7 JULY 2012

The Biological Effects of Weak Electromagnetic Fields: Problems & Solutions

Andrew Goldsworthy, BSc, Ph.D

<http://assembly.coe.int/mainf.asp?link=/documents/adoptedtext/ta11/eres1815.htm>

Parliamentary Assembly of the Council of Europe adopted Resolution 1815 (2011)

The potential dangers of electromagnetic fields and their effect on the environment.

<http://www.europarl.europa.eu/plenary/en/written-declarations.html>

enter 2012 0014

European Parliament WRITTEN DECLARATION on the recognition of multiple chemical sensitivity and electrohypersensitivity in the International Statistical Classification of Diseases and Related Health Problems (ICD).

Razl Romeva i Rueda, Kriton Arsenis, Willy Meyer, Michale Rivasi, Oreste Rossi

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SELETUN STATEMENT – New International EMF Alliance announces scientific Consensus Statement: World Health Urgently Needs to Lower EMF Standards.

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f

Santa Cruz County Department of Health report: Health Risks Associated With SmartMeters. (pg 9–18)

Poki Stewart Namkung, M.D. M.P.H.

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American Academy of Environmental Medicine – Electromagnetic and Radiofrequency Fields Effect on Human Health.

<http://www.csn-deutschland.de/blog/en/tags/multiple-chemical-sensitivity/>

Electromagnetic Hypersensitivity and Multiple Chemical Sensitivity: two sides of the same coin?

[http://www.swissinfo.ch/eng/science_technology/Phone_radiation_affects_biological_processes.html?](http://www.swissinfo.ch/eng/science_technology/Phone_radiation_affects_biological_processes.html?cid=30214216)

[cid=30214216](http://www.swissinfo.ch/eng/science_technology/Phone_radiation_affects_biological_processes.html?cid=30214216)

Swiss National Science Foundation (SNF) The National Research Programme “Non-Ionising Radiation – Health and Environment” (NRP 57).

www.ncbi.nlm.nih.gov/pubmed/22153604

Electromagnetic hypersensitivity: Fact or fiction?

Genuis SJ, Lipp CT.

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http://www.hese-project.org/uk_forum/index.php?mode=thread&id=331

Mobile communications and health of population: the risk assessment, social and ethical problems
Yury Grigoriev
Published in the Environmentalist online December 20, 2011

www.itis.ethz.ch/database

IT'IS Database for thermal and electromagnetic parameters of biological tissues.
Hasgall PA, Neufeld E, Gosselin MC, Klingensack A, Kuster N,
The Foundation for Research on Information Technologies in Society (IT'IS)

<http://www.asquifyde.es/noticia-detalle.aspx?noticia=1330>

SUMMARY OF THE MCS/EHS MEETING AT THE WHO HEADQUARTERS GENEVA

http://planetthrive.com/2011/09/spain-recognizes-ehs-as-a-cause-of-disability/?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+planetthrive+%28Planet+Thrive%29

Labor Court in Madrid, Spain recognizes electromagnetic sensitivity as a cause of permanent disability.

<http://www.emfacts.com/2012/01/electromagnetic-intolerance-elucidated/>
Electromagnetic intolerance elucidated.

http://www.iarc.fr/en/media-centre/pr/2011/pdfs/pr208_E.pdf

WHO IARC classifies radiofrequency electromagnetic fields as a Class 2B Carcinogen (possibly carcinogenic to humans).

<http://www.radiofrequences.gouv.fr/spip.php?article102>

Ongoing France, Multicenter national study will evaluate the sensitivity of patients to electromagnetic fields exposure as well as their state of health and quality of life.
National Hospital Clinical Research

<http://www.niehs.nih.gov/health/topics/agents/cellphones/index.cfm>

Ongoing The National Toxicology Program (NTP) headquartered at NIEHS is leading the largest laboratory rodent study to date on cell phone radio frequency.
Dr. Michael Wyde, Ph.D.

<http://onlinelibrary.wiley.com/doi/10.1002/bem.20691/full>

Individual differences in the effects of mobile phone exposure on human sleep: Rethinking the problem
Bioelectromagnetics

Volume 33, Issue 1, pages 86–93, January 2012

Sarah P. Loughran^{1,2,3}, Raymond J. McKenzie^{1,2}, Melinda L. Jackson^{1,4}, Mark E. Howard⁵, Rodney J. Croft^{2,6,*}

Article first published online: 3 AUG 2011

DOI: 10.1002/bem.20691

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<http://www.ncbi.nlm.nih.gov/pubmed/21793784?dopt=Abstract>

ELECTROMAGNETIC HYPERSENSITIVITY: EVIDENCE FOR A NOVEL NEUROLOGICAL SYNDROME

David E. McCarty, M.D., Simona Carrubba, Ph.D., Andrew L. Chesson, Jr., M.D., Clifton Frilot, II, Ph.D., Eduardo Gonzalez-Toledo, M.D., Andrew A. Marino, Ph.D.

Int J Neurosci. 2011 Dec;121(12):670–6. Epub 2011 Sep 5.

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Thomée S, Hårenstam A, Hagberg M M.

BMC Public Health. 2011; 11: 66.

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7784 Oak Bay Circle Sacramento, CA 95831
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APPEAL A-3-SCO-12-1
APPLICATION #111114

Christopher D. Hourigan
NextG Networks
2216 O'Toole Ave
San Jose CA 95131

August 12, 2011

Introduction

At your request, I have reviewed the technical specifications and calculated the maximum radiofrequency, (RF), power density from the proposed NextG nodes to be located in the public right-of-way as shown in attachment one. These nodes will be used for wireless telecommunications transmission and reception utilizing two (2) Kathrein 840-10525 antenna mounted to a utility pole or similar structure. The antenna used in this network is directional, with a gain of 10.5, 11.0, 13.3 dBi, associated with transmissions within a bandwidth between 700, 900, and 1,900 MHz respectively. The distance from the antenna center to the ground is at least 18 feet and the maximum input power is 16.0 watts (700 MHz), 8.0 watts (900 MHz) and 8.0 watts (1,900 MHz). The antenna specification details are depicted in attachment two.

Calculation Methodology

Calculations at the level of the antenna were made in accordance with the cylindrical model recommendations for near-field analysis contained in the Federal Communications Commission, Office of Engineering and Technology Bulletin 65 (OET 65) entitled "Evaluating Compliance with FCC-Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields." RF exposure calculations at ground level were made using equation 10 from the same OET document. Several assumptions were made in order to provide the most conservative or "worst case" projections of power densities. Calculations were made assuming that all channels were operating simultaneously at their maximum design effective radiated power. Attenuation (weakening) of the signal that would result from surrounding foliage or buildings was ignored. Buildings or other structures can reduce the signal strength by a factor of 10 (i.e., 10 dB) or more depending upon the construction material. In addition, for ground level calculations, the ground or other surfaces were considered to be perfect reflectors (which they are not) and the RF energy was assumed to overlap and interact constructively at all locations (which they would not) thereby resulting in the calculation of the maximum potential exposure. In fact, the accumulations of all these very conservative assumptions, will significantly overestimate the actual exposures that would typically be expected from such a facility. However, this method is a prudent approach that errs on the side of safety.

to assess environmental exposures are those of the NCRP (i.e., maximum public continuous exposure at PCS frequencies of $1,000 \mu\text{W}/\text{cm}^2$). The FCC issued these standards in order to address its responsibilities under the National Environmental Policy Act (NEPA) to consider whether its actions will "significantly affect the quality of the human environment." In as far as there was no other standard issued by a federal agency such as the Environmental Protection Agency (EPA), the FCC utilized their rulemaking procedure to consider which standards should be adopted. The FCC received thousands of pages of comments over a three-year review period from a variety of sources including the public, academia, federal health and safety agencies (e.g., EPA & FDA) and the telecommunications industry. The FCC gave special consideration to the recommendations by the federal health agencies because of their special responsibility for protecting the public health and safety. In fact, the maximum permissible exposure (MPE) values in the FCC standard are those recommended by EPA and FDA. The FCC standard incorporates various elements of the 1992 ANSI and NCRP standards which were chosen because they are widely accepted and technically supportable. There are a variety of other exposure guidelines and standards set by other national and international organizations and governments, most of which are similar to the current ANSI/IEEE or NCRP standard, figure one.

The FCC standards "Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation" (Report and Order FCC 96-326) adopted the ANSI/IEEE definitions for controlled and uncontrolled environments. In order to use the higher exposure levels associated with a controlled environment, RF exposures must be occupationally related (e.g., PCS company RF technicians) and they must be aware of and have sufficient knowledge to control their exposure. All other environmental areas are considered uncontrolled (e.g., public) for which the stricter (i.e., lower) environmental exposure limits apply. All carriers were required to be in compliance with the new FCC RF exposure standards for new telecommunications facilities by October 15, 1997. These standards applied retroactively for existing telecommunications facilities on September 1, 2000.

The task for the physical, biological, and medical scientists that evaluate health implications of the RF data base has been to identify those RF field conditions that can produce harmful biological effects. No panel of experts can guarantee safe levels of exposure because safety is a null concept, and negatives are not susceptible to proof. What a dispassionate scientific assessment can offer is the presumption of safety when RF-field conditions do not give rise to a demonstrable harmful effect.

Summary & Conclusions

This NextG antenna system operating with the characteristics as specified above and observing a four (4) foot occupational and eight (8) foot public exclusion zone directly in front of and at the same elevation as the antenna, will be in full compliance with FCC RF public and occupational safety exposure standards. These transmitters, by design and operation, are low-power devices. Even under maximal exposure conditions in which all the channels are operating at full power, the maximum exposure beyond four (4) feet and eight (8) feet next to and at the elevation of the antenna will not result in RF exposures in excess of the FCC occupational and public RF safety standard respectively for these frequencies, (see appendix A-1). A caution sign, as depicted in appendix A-2, containing appropriate contact information and indicating the stay back distance beyond which the RF exposures do not exceed the occupational and public maximum permissible exposure (MPE), should be placed near the antenna. The maximum RF exposure at ground levels will not be in excess of 13.7% of the FCC public safety standard, (see appendix A-3). A chart of the electromagnetic spectrum and a comparison of RF power densities from various common sources is presented in figures two and three respectively in order to place exposures from wireless telecommunications systems in perspective.

National and International Public RF Exposure Standards (DAS @ 1,950 MHz)

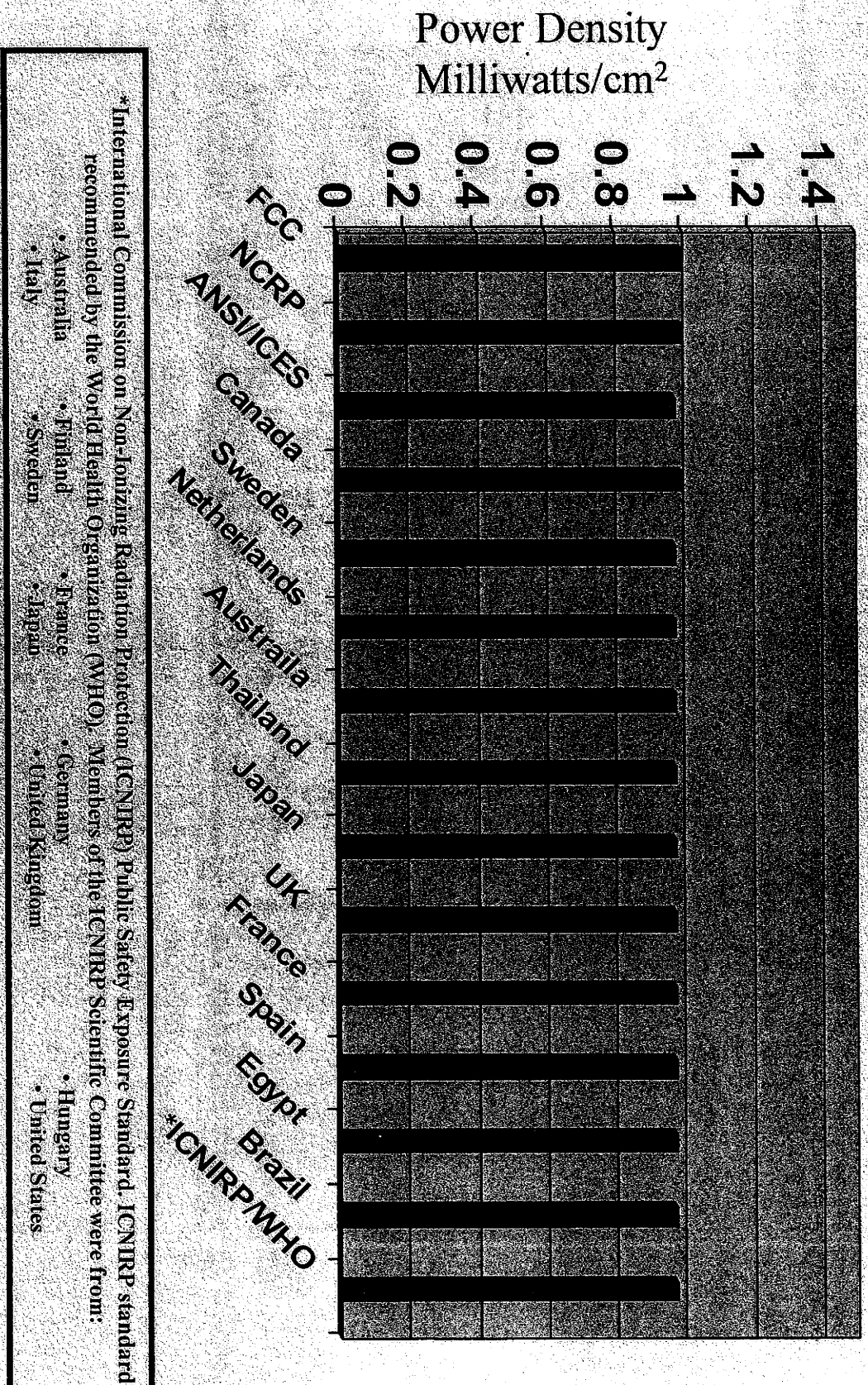


Figure 1

Typical Exposure from Various Radio Frequency / Microwave Sources

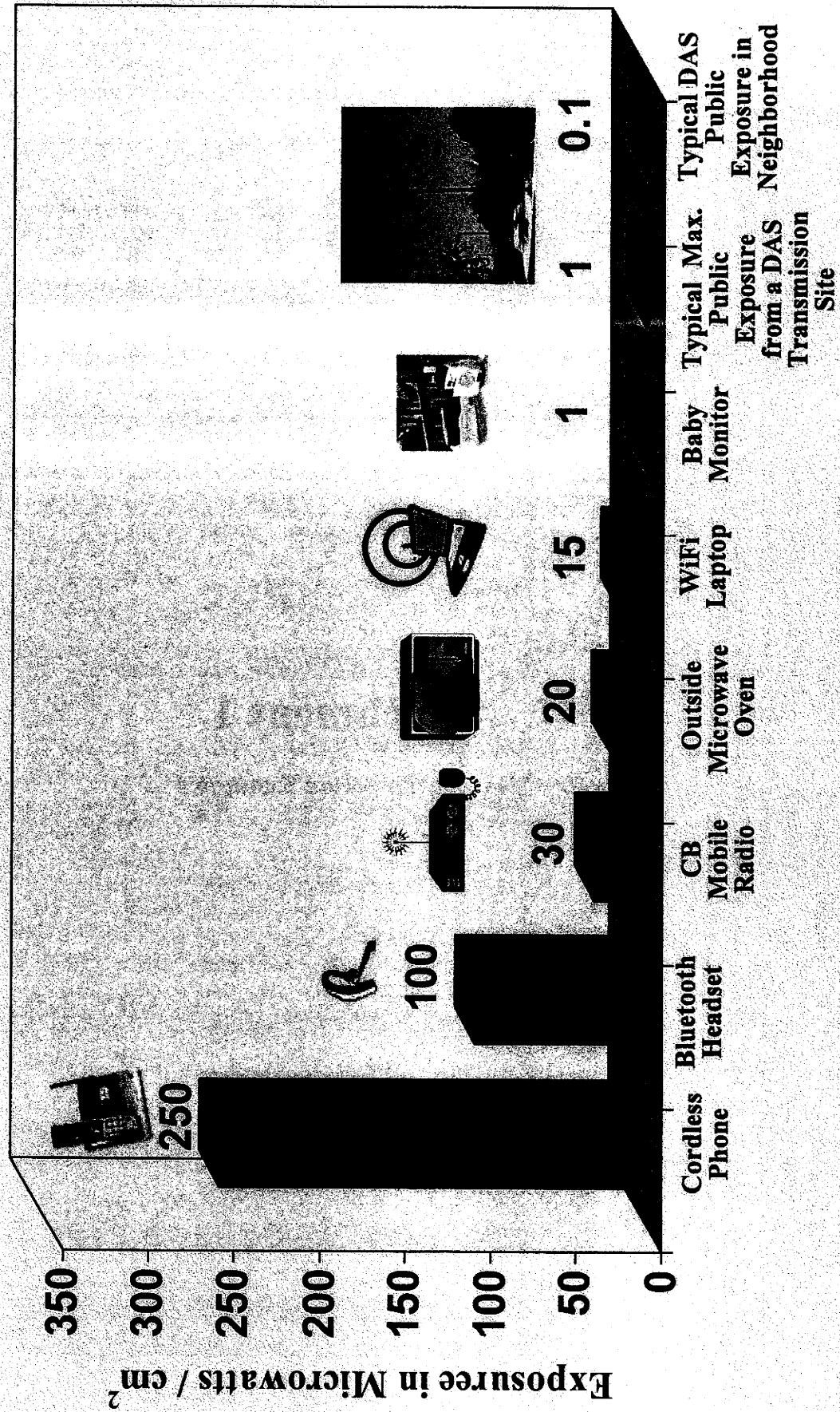
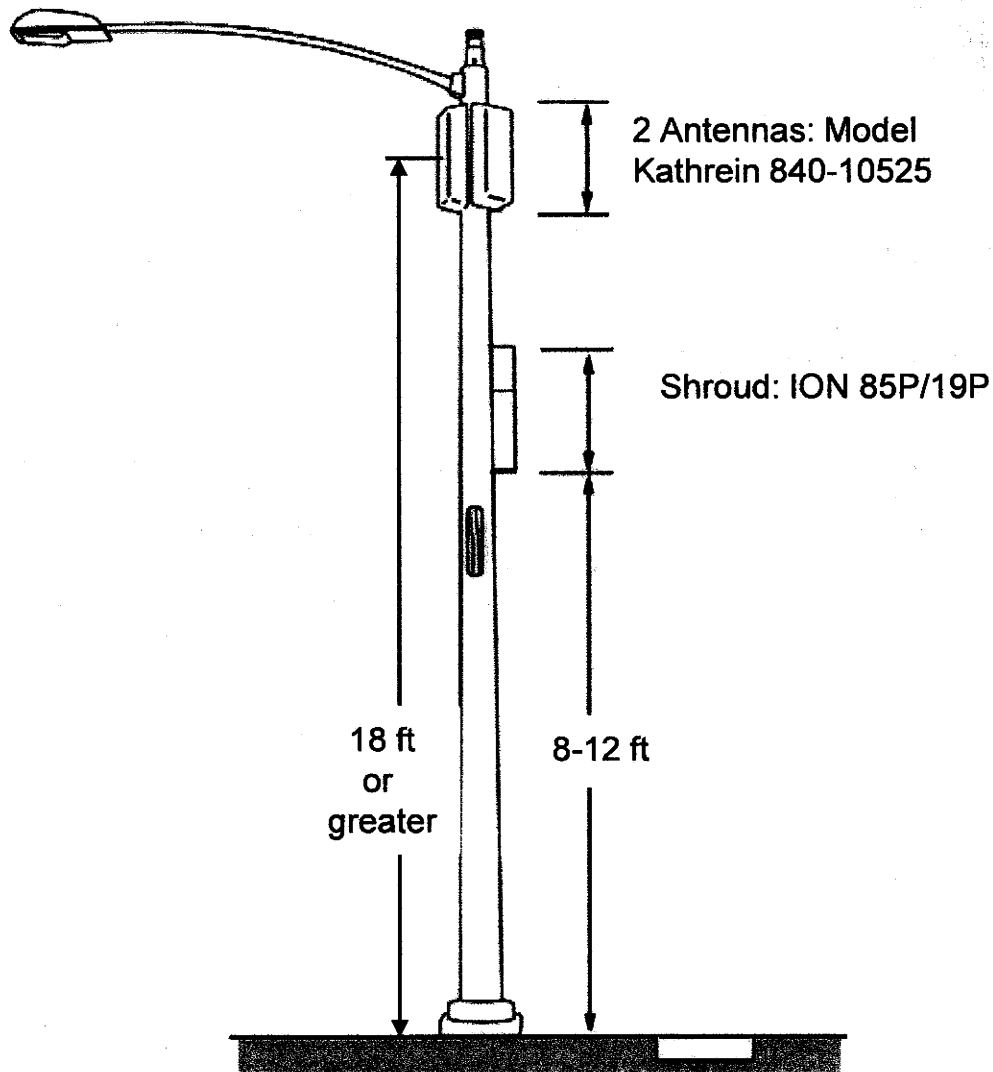
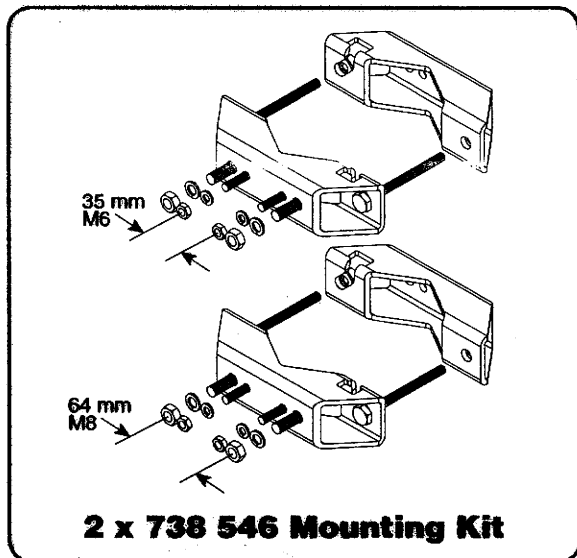


Figure 3

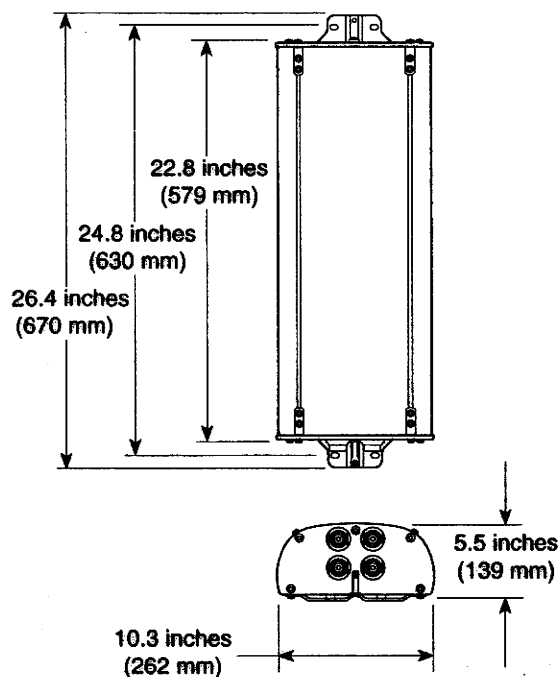
Street Light Pole





Mounting Options:

Model	Description
2 x 738 546	Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast.
850 10013	Tilt Kit for use with the 2 x 738 546 mounting kit 0-34 degrees downtilt angle.



Profile PA2

1710-2170	
-45°	+45°
-45°	+45°
698-894	

Order Information:

Model	Description
840 10525	Antenna with 7-16 DIN connectors

All specifications are subject to change without notice. The latest specifications are available at www.kathrein-scala.com.

Kathrein Inc., Scala Division Post Office Box 4580 Medford, OR 97501 (USA) Phone: (541) 779-6500 Fax: (541) 779-3991
Email: communications@kathrein.com Internet: www.kathrein-scala.com

65° Dualband Directional Antenna

Kathrein's dual band antennas are ready for 3G applications, covering all existing wireless bands as well as all spectrum under consideration for future systems, LTE, PCS and 3G/UMTS. These cross-polarized antennas offer diversity operation in the same space as a conventional 700 MHz antenna, and are mountable on our compact sector brackets

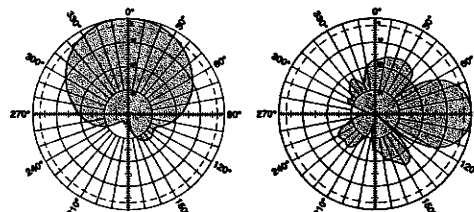
- Wide band operation.
- Exceptional intermodulation characteristics.
- Various gain, beamwidth and downtilt ranges.
- High strength pultruded fiberglass radome.

General specifications:

Frequency range	698–894 MHz 1710–2170 MHz
Impedance	50 ohms
VSWR	<1.5:1
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Connector	4 x 7-16 DIN female
Isolation intrasystem	>30 dB
Weight	15.9 lb (7.2 kg)
Dimensions	22.8 x 10.3 x 5.5 inches (579 x 262 x 139 mm)
Wind load	at 93 mph (150kph)
Front/Side/Rear	23 lbf / 18 lbf / 41 lbf (100 N) / (80 N) / (180 N)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	29 x 11.9 x 7.6 inches (736 x 302 x 192 mm)
Shipping weight	19.2 lb (8.7 kg)
Mounting	Fixed and tilt mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts.

See reverse for order information.

698–894 MHz

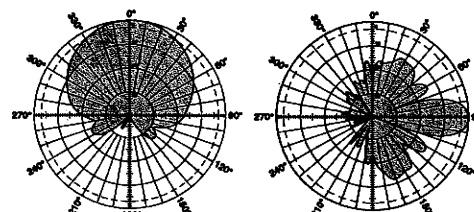


Horizontal pattern
±45°-polarization
(typical pattern)

Vertical pattern
±45°-polarization
(typical pattern)



1710–2170 MHz



Horizontal pattern
±45°-polarization
(typical pattern)

Vertical pattern
±45°-polarization
(typical pattern)

Specifications:	698–806 MHz	824–894 MHz	1710–1755 MHz	1850–1990 MHz	2110–2170 MHz
Gain	10.5 dBi	11 dBi	12.5 dBi	13.3 dBi	13.6 dBi
Front-to-back ratio	>25 dB (co-polar)	>25 dB (co-polar)	>27 dB (co-polar)	>27 dB (co-polar)	>27 dB (co-polar)
Maximum input power	250 watts (at 50°C)	250 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)
+45° and -45° polarization horizontal beamwidth	72° (half-power)	66° (half-power)	64° (half-power)	64° (half-power)	60° (half-power)
+45° and -45° polarization vertical beamwidth	37° (half-power)	34° (half-power)	19° (half-power)	18.5° (half-power)	18° (half-power)
Cross polar ratio					
Main direction 0°	30 dB (typical)	25 dB (typical)	25 dB (typical)	25 dB (typical)	25 dB (typical)
Sector ±60°	>10 dB	>10 dB	>8 dB	>8 dB	>8 dB

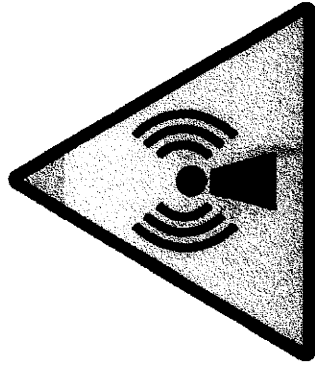
* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



11241-FRO/a

Appendix A-2

RF INFORMATION SIGN

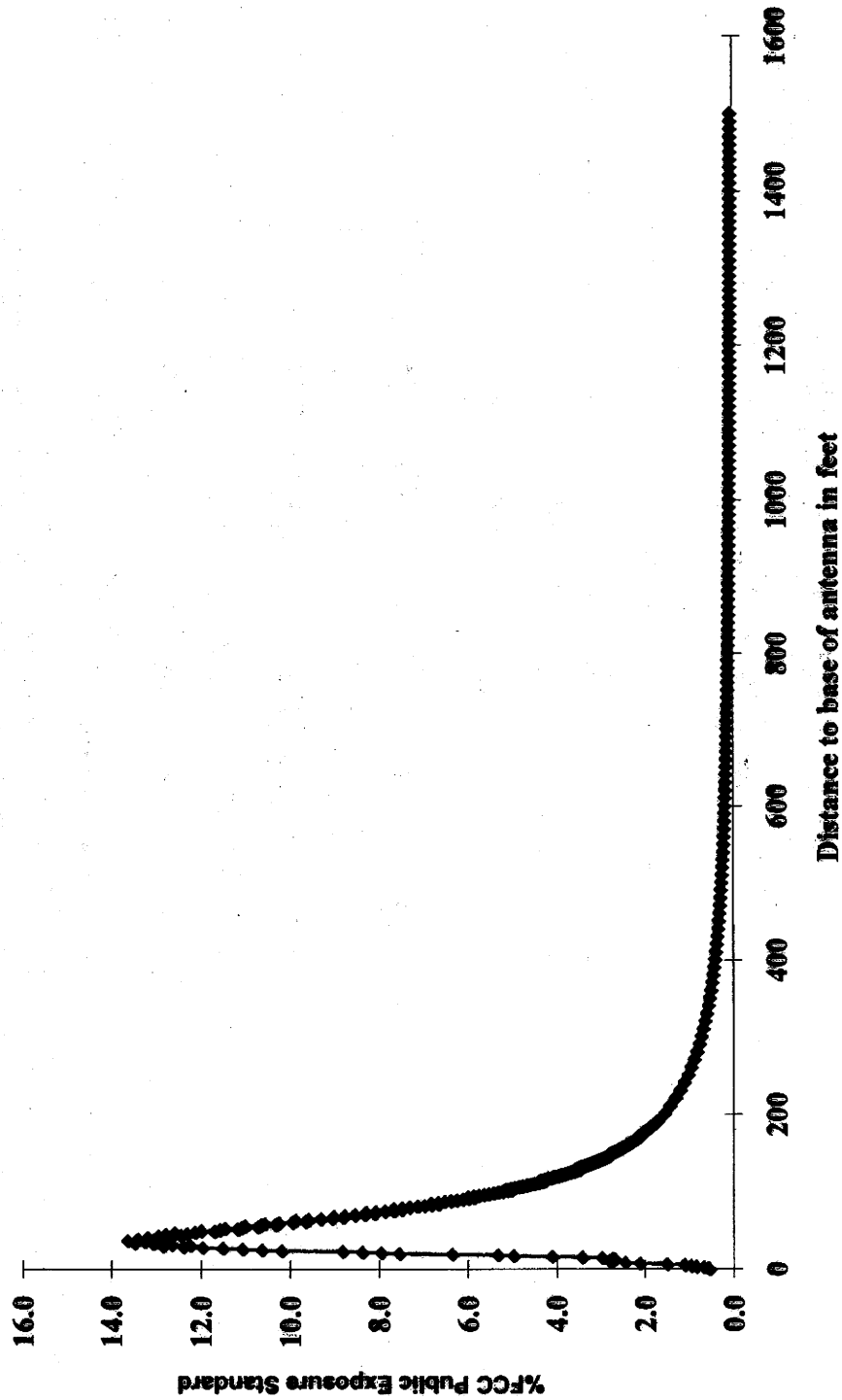


CAUTION

The radio frequency (RF) emissions at this site have been evaluated for potential RF exposure to personnel who may need to work near these antennae.

RF EXPOSURE AT 4 FOOT OR CLOSER TO THE FACE OF THE ANTENNA MAY EXCEED THE FCC OCCUPATIONAL EXPOSURE LIMITS. OBEY ALL SITE RF SAFETY GUIDELINES. ONLY QUALIFIED WORKERS THAT HAVE RF SAFETY TRAINING MAY WORK NEAR THIS 4 FOOT EXCLUSION ZONE. ANYONE NEEDING TO WORK INSIDE THE EXCLUSION ZONE SHOULD CALL _____ FOR INSTRUCTIONS PRIOR TO COMMENCING WORK. REFER TO SITE # _____

**RF Exposure at Ground Level
Antenna Center 18 feet AGL**



Susan Craig
Supervising Coastal Planner
California Coastal Commission
725 Front Street
Suite 300
Santa Cruz, CA 95060
831-427-4863
scraig@coastal.ca.gov

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AUG 08 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

Appeal A-3-SCO-12-006 NextG
Santa Cruz County
Application #111114

August 8, 2012

Note: This material has been provided to the Coastal Commission Staff on 8/8/12 and is entered Ex Parte.

Dear Ms. Craig,

Please accept the following documents as evidence in support of Appeal A-3-SCO-12-006 NextG :

1. Will the Communications Industry be the final straw for our planet's ecosystems?

Barrie Trower Presented at the Glastonbury Symposium, July 24th 2010

<http://citizensforsafetechnology.org/Barrie-Trowers-Paper-on-the-bees-and-microwave-radiation,7,1933>

2. Why our world is electropolluted.

by Helke Ferrie

<http://vitalitymagazine.com/article/why-our-world-is-electropolluted>

3. Looming Health Crisis: Wireless Technology and the Toxification of America

By Professor James F. Tracy

<http://www.globalresearch.ca/index.php?context=va&aid=31816>

Submitted by:

Marilyn Garrett

Marilyn Garrett
351 Redwood Heights Road
Aptos, CA 95003
831-684-1401

<http://www.safelandforbees.org.uk/bees-and-microwave-radiation.html>

"Will the Communications Industry be the final straw for Our Planet's Ecosystems?"

Barrie Trower Presented at the Glastonbury Symposium, July 24th 2010

During a recent visit to Africa, a gentleman took me to a field full of plants and said "What do you hear Barrie?" I replied: "Nothing". He said: "Normally you and I would not be able to hear each other now, there would be so many bees buzzing, however, since that mobile phone transmitter went up, we haven't seen a single bee." I received other similar reports concerning bees, birds, even ants during my stay in Africa. It was explained to me that the ants are very important for their symbiotic relationship with plants. The plants produce a sweet substance to feed the ants and in return the ants prevent insects landing on and eating the plant's leaves. Hence, ants guarantee plant crop safety and harvest.

It appeared that the common denominator in all cases was the proximity of mobile phone transmitters transmitting low-level continuous microwaves with added modulations (pulses) causing cellular distress to species within range. Residents who complained were told that such installations were within 'International Safety Guidelines'; other residents were either totally ignored, mocked or ridiculed.

Yet proof of such effects from low-level microwave irradiation has been known to Government(s) and published since 1932. (1) By 1971 the US Naval Medical Research institute referenced 2300 research articles listing in excess of 120 illnesses from low-level microwaves. (2) This was reinforced by confirmation from the US Defence Intelligence Agency Documents from 1972-76. (3)

So what does all this have to do with bees, birds and ants? Well, quite a lot really.

Biologically, apart from some specialist organelles within the cytoplasm or the amount of genetic material etc, all animal and plant cells are very similar; in fact at the atomic and nuclear level, they are identical. Thus, if you are going to affect human cellular activity, you will inevitably affect other animal and plant cells from the same source. In this case according to Government reports, low-level microwave irradiation. The reader does not have to look far to discover that many experimental trials, evaluating harmful microwave levels, are carried out on animal cells / tissue first; or even live animals. These reference levels are then applied to human beings. Arguably the World's foremost scientific journal, 'Nature', published an article explaining how oscillating magnetic fields disrupt the magnetic orientation behaviour of migratory birds. (4) The frequencies referred to within this article are well within the modulation frequencies used by the mobile phone industry.

Dr Andrew Goldsworthy, retired Lecturer from Imperial College, London; extends this mechanism to speeches in his written 'comment': 'Establishing Why Bees Die Off' dated 13th January 2010.

Prof Karl Richter also extends this explanation and references the plight of bees subjected to such irradiation. He notes that these insects' immune systems seem to have collapsed with many bees suffering five to six infections simultaneously. Interestingly, suppression of the immune

system is also described by the US Government as a symptom for humans exposed to low-level microwave irradiation. (5)

Similarly, Prof Ferdinand Ruzicka, who is a bee keeper himself, says: "The problem only appeared since several transmitters have been installed in the immediate proximity to my hives".

"Dragnose-Funk" continues: 'According to Ruzicka's observations, the bee colonies are so weakened by the mobile telecommunications radiation that they become more prone to various diseases.' (6) In his two-part, 13 page document, Guy Cramer includes the military and its Worldwide use of similar telecommunications transmitters as partly complicit to this cause for the demise of the bee population. In particular he singles out the US multi-transmitting towers in Alaska which can focus anywhere on the Planet by reflecting their transmissions off of the ionosphere. This is otherwise known as HAARP. (7)

Researchers like Colin Buchanan have actually outlined time-lines plotting the demise of bees and its relation to human induced electromagnetic radiation. (8)

Within my presentation to the beekeepers' association at Glastonbury in 2008, I referenced 14 articles explaining why the bees are particularly susceptible to microwave irradiation. I stressed that bees could be exposed to magnetic fields roughly 640 times more powerful than they normally encounter with the Earth's field. The consequences of this can be two-fold: i) the ferromagnetic compounds within their heads, thorax and abdomen can produce hysteresis loops affecting proprioception (spatial awareness); and ii) the very size of the bee's antennas, brain and body render it susceptible to resonance (unwanted vibrations). (9) Put simply, I would argue that the bee is disorientated with a failing immune system and like AIDS in humans will become victim of any infection(s) or infestation(s) which came along.

The reader will not be surprised to learn that there is a plethora of research data documenting ill-effects on virtually all animal species from insects to cattle, listing long-term low-level microwave irradiation as the cause. I will reference just a few of the many thousands that exist.

The Research Institute for Nature and Forest clearly state in their publication that '....long-term exposure to higher levels of radiation (GSM) negatively affects the abundance or behaviour of House Sparrows in the wild' (10)

Twenty pages of Laboratory Studies citing suppression of the immune system by e.m. radiation upon cows, cats, dogs, hamsters, whales, birds, bees, bats and butterflies were published in Feb 2005. (11)

Prof. Denis Henshaw references in excess of 8000 research articles describing low-level radiation and its effects on animal navigation, plants and health of the animal kingdom.

Prof. Henshaw states that in his estimation, less than 10% of the available scientific evidence is cited by official review bodies; also, in some areas, none of the literature has been cited. (12)

An article published in 'Microwave News' describes how low-level microwave radiation, when modulated, can cause nonthermal neurological effects in both humans and birds. Exactly what the US Government published thirty years earlier and seems to have been 'overlooked'. (13)

Internet researcher Sylvia Wright listed 27 peer reviewed studies showing effects, or possible effects, of low-level irradiation upon seeds and plants. All of these papers had been published in scientific journals.(14)

Remembering that all planetary eco-environmental systems are interconnected, the monetary value of the World's ecosystems has been estimated at 33 Trillion US Dollars annually. (15) With an understanding of the potential risk to nature; should the Global Telecommunications Industry cover our Planet with microwave transmitters, without further investigation or restriction? Could this potential financial loss be sustainable to many poorer countries?

The UK Government are advising populations to switch off all unnecessary lights, drive less, even restrict flying for holidays in order to reduce our carbon footprint. It has been estimated that the annual carbon footprint for the worldwide telecommunications industry is approximately 110.7 million tonnes of CO2 into our atmosphere. This is equivalent to the use of 29 million vehicles. Simultaneously all of our state schools are 'encouraged' to install wi-fi; virtually turning each school into a full-blown transmitter from the accumulative effect of microwaves. I find this a Governmental regulatory paradox. If for no other reason, than their total and absolute ambivalence on this matter! (16)

Are there solutions? Of course. In 2007 an international group of scientists studied 2000 peer reviews and published research papers. They recommended an acceptable level of radiation, based on the interaction between low-level microwaves and all known cellular processes. This became known as the bio-initiative level. (17)

The problem with this recommended level is that the telecommunications industry would suffer a reduction in profits. Consequently it is seldom adhered to.

There is a recent Legal Instrument. The European Parliament Guideline 2004/35/EG and advice from 21st April 2004, states that the 'causer pays the principle' for damage to animal, plants, natural habitats, water resources and soil. I must state here that I have no training in Law and should the reader wish to pursue this line of inquiry, expert international legal advice should be sought.

However, since September 1960, I have received several years of Governmental tuition on all aspects of microwave technology. At that time, microwave research was paramount Worldwide with many papers published; including dangers of irradiation to living tissues from very low-level microwaves.

Knowing what we were all taught in the 60s, forces me to question the total ambivalence of today's Governmental Advisers. The microwaves haven't changed, only the colour and shape of the box emitting them.

Opinion

Could all of this potential damage to the Planet's eco-systems be a result of nothing more than Blind Corruption and Intentional Ignorance from our decision makers? Or is it planned? After all,

if a country loses most of its pollinating insects (which tend to pollinate Vitamin C type plants), the health and financial status of such a country could be in jeopardy. The 'causer' could then offer a solution - at a price!

An interesting observation may be to look at the countries suffering the most; and those sweeping across such lands, installing a myriad of transmitters.

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WHY OUR WORLD IS ELECTROPOLLUTED

11:00 pm March 1, 2012 • by Helke Ferrie

(Ed note: This is the first of a 2-part series on Electropollution. The second part, to run in April Vitality, will focus on solutions.)

If something is invented by and for the military, it is certain to be effective and lethal. And industrial capitalists invariably view such military gizmos as having great profit potential – particularly if they're re-packaged and promoted as beneficial to the public. Hence, the science behind atom bombs dropped on Japan in World War II led soon after to cancer radiation therapy and mammography – two of the most lucrative practices in modern medicine. Similarly, biological warfare weapons such as DDT and chemotherapy proved to be enormously lucrative in their peace-time applications – their deadly properties being undiminished despite re-packaging. Originally, the military objected to the declassification of both, but industry interests prevailed.

Today, it's World War II radar technology that has been harnessed to create a near universal addiction and worldwide dependence on telecommunications. Anything that facilitates and enhances the human ability to communicate plugs into a powerful primal urge.

We can say no to radiation and chemotherapy, and we can do perfectly well without pesticides – but we cannot do without telephones, the internet, or electricity. Millions of people use cell phones as if they were an indispensable body part; thousands of households use microwave ovens daily, unaware that they are ruining the nutrients in their food; well-meaning parents irradiate their infants with baby monitors; and most of us are zapped continuously by smart meters. All things wireless have taken the world by storm, supposedly serving progress.

Very few people know that all these gadgets are allowed to proliferate on the basis of outright fraudulent research. Most don't know that current safety standards are so completely at variance with genuine scientific evidence as to be truly absurd: in fact, our regulatory authorities are supporting the unfolding of a public health disaster. There simply is no research proving the safety of this technology as we know it. None at all.

NO GENUINE SAFETY TESTING CONDUCTED

Wireless technology has undergone no genuine safety tests because existing standards only apply to anything above 2.4 gigahertz of the radio spectrum, and anything below that level was simply assumed safe when commercial standards were adopted in 1997. This rests on the assumption that non-thermal radiation is harmless; non-thermal means not-heat producing. Radio waves and microwaves do produce heat, but only at very high concentrations. At low concentrations they do not produce heat but, instead, cause other equally serious problems affecting all organs of the body.

This problem started with Hermann Schwan, inventor of the microwave oven. As a scientist who worked for the Nazi regime, he was brought to the U.S. in 1947 along with 1,400 others under "Operation Paperclip" which allowed them to escape war crime prosecution in return for employment with the U.S. government. Schwan became a professor in Pennsylvania and continued radar research. He believed that radio and microwaves could only be harmful at

intensities above 100 microwatts per square centimeter when they produce heat. He added a safety factor of 10, and in 1953 announced the safety limit for humans at 10 microwatts per square centimeter (10 mW/cm²) which in 1965 was accepted as doctrine.

This "safe" level allowed the military to continue using radiation for their own purposes. This standard also saved the U.S. government untold millions in liability payments to injured soldiers and industrial workers from the war years and provided liability protection into the future. And real estate companies were delighted because the former restrictions on developing land too close to radiation facilities no longer applied. Had the already known facts about harm from non-thermal levels of radiation informed the making of this safety standard, some 498,000 acres of valuable real estate would have been lost to the market. (See Becker and Brodeur listed at end.)

Schwan and the scientists of his generation already knew of the "radiation sickness" reported by wartime radar technicians who often became blind from cataracts. Indeed, it was because of these reports that the discussion about a need for a safety standard began. At the very time that Schwan's standard was developed, the Soviets were microwaving the U.S. embassy staff in Moscow to see if this wartime radar/microwave technology could disrupt information, addle brains, and mess with behaviour among the embassy staff. It sure did. The U.S. government was fully aware of this Soviet espionage project, but kept silent for years – just to see what would happen. After all, it was a perfect science project (for the sake of which the glaring ethical inconsistency with the 1940s US-led Nuernberg trials was conveniently ignored). The Germans doing medical experiments on people was evil; this project, however, could be massaged to aid some greater good. The U.S. ambassador died of cancer and many staff members developed those forms of cancer, birth defects, infertility and more which are characteristic of non-thermal radiation exposure. Not until 1976 did this government betrayal of its own staff become the subject of congressional investigation.

UNIVERSAL RISK TO ALL HUMANS

Today, the complete bibliography of more than 2,000 scientific reports on non-thermal radiation damage compiled before 1970 are available. They were declassified by the military in 1971 (see <http://www.magdahavas.com>).

When cell phones hit the market in the early 1990's and WiFi for computers was invented, it was already known what damage these products were capable of causing. Most importantly, that early literature, now supported by an ever-growing body of high-tech and epidemiological research, negates the assertion that just "some" people are "hypersensitive". That same myth was used for decades to downplay Multiple Chemical Sensitivity as well. The profit from war gadgets, communication technology, and pesticides is simply too big to resist; better to blame those few weirdos who stand in the way of profit.

To put this "hypersensitivity" of the few into perspective, consider Swedish and American research published last fall which shows that within the coming decade we are likely to face a 25-fold increase of brain cancer incidence worldwide. There is no way that any government or insurance company can pay for this. Not surprisingly, two of the world's largest insurance companies, Lloyds and Swiss Re, have recommended exclusion clauses to the entire industry for damage from long-term use of such radiation-producing gadgets.

RESEARCH ON THE DANGERS OF EMF SUPPRESSED BY INDUSTRY AND GOVERNMENT

Researchers have found that cell phone use impairs DNA cellular repair, and has caused a sharp rise in brain cancer (documented from cell phone use over the past decade). The facts became so unavoidable that the usually arch-conservative World Health Organization had no choice last summer but to declare radiofrequency electromagnetic fields (RE-EMF) produced by cell phones, Bluetooth, cordless phones, Smart Meters, baby monitors, and WiFi to be a Class B carcinogen (like asbestos and DDT).

True, the actual mechanism by which this low-level radiation caused harm was not understood in the 1940's, even though the fact of harm was known and documented. Today, our understanding is so thorough, it exceeds the evidence we have of the harm done by DDT, asbestos, and smoking by far. Yet, the International Commission on Non-Ionizing Radiation Protection (ICNIRP), established in 1992, continues to stick to Schwann's standard and even deliberately misquotes, disguises, or ignores this enormous body of knowledge. It continues to provide guidelines to governments and industry based on research published before WiFi technology had even left the laboratory and become commercially available. To support these absurd guidelines, even fraudulent research projects were undertaken in the UK (see Mark Anslow).

In Canada an interesting case of suppression of evidence exists in the federal Report LTR-CS-98 of April 1973. It provided the evidence that microwave radiation is an "environmental pollutant" and a "threat to human health." And yet Health Canada established its Code 6 by following ICNIRP guidelines for radio frequencies and publicly repeated the propaganda about non-thermal radiation being safe as recently as September 2010.

The many international resolutions presented by scientists to governments the world over demanding the public be protected from this technology are simply ignored, but their urgency is increasing. When cell phones first became available in the early 90's, the Council of Europe, aware of the science since the 1930s about the dangers of radar to human health, requested that young people in particular be protected from such commercial devices. Last April, the Council did so again, in even stronger terms and armed with even more research. In February of this year, the Ontario Teachers' Union came to the defense of their students' safety and demanded a general WiFi blackout in schools. Some schools have done so already (Globe & Mail, Feb 13, 2012).

There is no doubt that we live in a time in which science consistently takes a back seat to industry interests and that governments consistently support industry, not public health or medical facts. If you suspect that government is selling us out, body and soul, to toxic industries for profit, you are not mistaken.

Just like the FDA's Dr. David Graham, and Health Canada's Shiv Chopra, the radiation industry too has its whistleblowers: Barrie Trower, as reported in the Toronto Star on August 26, 2010, is a former British Secret Service Microwave Weapons Specialist who recently spoke at the University of Toronto. He stated that Canada "is one of the world leaders in microwave radiation research," having documented the first recognized symptoms of radiation sickness in 1932 in concert with the U.S. government. Canada shares 13 secret code names for this research which documents the damage. Trower also pointed out that "there isn't a school in the world that hasn't seen an increase in aggression [and other behavioural problems] when WiFi was introduced." He

stated: "By 1971 we knew everything that needed to be known. A 1976 document summarizing U.S. Defense Intelligence research is the saddest and most despicable document ever published in history." The document lists all of the health hazards caused by wireless devices and concludes: "This should be kept secret to preserve industrial profit." Trower also cited a 1950's report stating: "If this paper becomes known around the world, it will threaten military and commercial interests." He especially condemned Health Canada's Code 6, stating that the science-based safety level published in the BioInitiative Report is 0.1 microwatts per cm² – not Canada's 600 to 1,000 mW/cm²!

Due to the determined suppression of the evidence over three quarters of a century, it is vitally important to get legal rulings that create a foundation for appropriate liability and the defense of public health through successful case law. That will force the invention of better technology. Last year the famous microwave activist Arthur Firstenberg brought a case regarding deployment of cell phone-related technology before the federal district court in New Mexico on the basis of the industry's infringement of the Americans with Disability Act. The judge ruled "that the Telecommunications Act preempts the Americans with Disabilities Act, even if such an interpretation would condemn a class of citizens to death because of their disabilities." The judge also ruled that the Equal Protection Clause and the Due Process Clause of the U.S. Constitution's 14th Amendment was not applicable.

An appeal was launched on February 21. My hunch is that because of the denial of fundamental human rights, this legal action will now move out of the polarization between industry and science and into the territory of what lawyers call "first principles," in this case liability law and established case law on harm done from whatever source.

Yes, the danger posed by EMF radiation is significant, but it is possible to save yourself and your loved ones. In Part 2 of this article, I will share the information and resources that I used to restore my health and make my home and workplace safe. Put simply, the answer to bad technology is not no technology, but good technology, just as bad medicine is cured by good medicine.

<http://vitalitymagazine.com/article/why-our-world-is-electropolluted/>

Looming Health Crisis: Wireless Technology and the Toxification of America

By Prof. James F. Tracy

Global Research, July 8, 2012

As a multitude of hazardous wireless technologies are deployed in homes, schools and workplaces, government officials and industry representatives continue to insist on their safety despite growing evidence to the contrary. A major health crisis looms that is only hastened through the extensive deployment of "smart grid" technology.

In October 2009 at Florida Power and Light's (FPL) solar energy station President Barack Obama announced that \$3.4 billion of the American Reinvestment and Recovery Act would be devoted to the country's "smart energy grid" transition. Matching funds from the energy industry brought the total national Smart Grid investment to \$8 billion. FPL was given \$200 million of federal money to install 2.5 million "smart meters" on homes and businesses throughout the state.[1]

By now many residents in the United States and Canada have the smart meters installed on their dwellings. Each of these meters is equipped with an electronic cellular transmitter that uses powerful bursts of electromagnetic radiofrequency (RF) radiation to communicate with nearby meters that together form an interlocking network transferring detailed information on residents' electrical usage back to the utility every few minutes or less. Such information can easily be used to determine individual patterns of behavior based on power consumption.

The smart grid technology is being sold to the public as a way to "empower" individual energy consumers by allowing them to access information on their energy usage so that they may eventually save money by programming "smart" (i.e, wireless enabled) home appliances and equipment that will coordinate their operability with the smart meter to run when electrical rates are lowest. In other words, a broader plan behind smart grid technology involves a tiered rate system for electricity consumption that will be set by the utility to which customers will have no choice but to conform. Because of power companies' stealth rollout of smart meters a large majority of the public still remains unaware of the dangers they pose to human health. This remains the case even though states such as Maine have adopted an "opt out" provision for their citizens. The devices have not been safety-tested by Underwriters Laboratory and thus lack the UL approval customary for most electronics.[2] Further, power customers are typically told by their utilities that the smart meter only communicates with the power company "a few times per day" to transmit information on individual household energy usage. However, when individuals obtained the necessary equipment to do their own testing they found the meters were emitting bursts of RF radiation throughout the home far more intense than a cell phone call every minute or less.[3]

America's Telecom-friendly Policy for RF Exposure

A growing body of medical studies is now linking cumulative RF exposure to DNA disruption, cancer, birth defects, miscarriages, and autoimmune diseases. Smart meters significantly contribute to an environment already polluted by RF radiation through the pervasive stationing of cellular telephone towers in or around public spaces and consumers' habitual use of wireless technologies. In the 2000 Salzburg Resolution European scientists recommended the maximum RF exposure for humans to be no more than one tenth of a microwatt per square centimeter. In the United States RF exposure limits are 1,000 microwatts per centimeter, with no limits for long term exposure.[4] Such lax standards have been determined by outdated science and the legal and regulatory maneuvering of the powerful telecommunications and wireless industries.

The Environmental Protection Agency (EPA) ceased studying the health effects of radiofrequency radiation when the Senate Appropriations Committee cut the department's funding and forbade it from further research into the area.[5] Thereafter RF limits were codified as mere "guidelines" based on the EPA's tentative findings and are to this day administered by the Federal Communications Commission

(FCC).

These weakly enforced standards are predicated on the alleged "thermal effect" of RF. In other words, if the energy emitted from a wireless antenna or device is not powerful enough to heat the skin or flesh then no danger is posed to human health.[6] This reasoning is routinely put forward by utilities installing smart meters on residences, telecom companies locating cellular transmission towers in populated areas, and now school districts across the US allowing the installation of cell towers on school campuses.[7]

The FCC's authority to impose this standard was further reinforced with the passage of the 1996 Telecommunications Act that included a provision lobbied for by the telecom industry preventing state and local governments from evaluating potential environmental and health effects when locating cell towers "so long as 'such facilities comply with the FCC's regulations concerning such emissions.'"[8] In 2001 an alliance of scientists and engineers with the backing of the Communications Workers of America filed a federal lawsuit hoping the Supreme Court would reconsider the FCC's obsolete exposure guidelines and the Telecom Act's overreach into state and local jurisdiction. The high court refused to hear the case. When the same group asked the FCC to reexamine its guidelines in light of current scientific studies the request was rebuffed.[9] Today in all probability millions are suffering from a variety of immediate and long-term health effects from relentless EMF and RF exposure that under the thermal effect rationale remain unrecognized or discounted by the telecom industry and regulatory authorities alike.

Growing Evidence of Health Risks From RF Exposure

The main health concern with electromagnetic radiation emitted by smart meters and other wireless technologies is that EMF and RF cause a breakdown in the communication between cells in the body, interrupting DNA repair and weakening tissue and organ function. These are the findings of Dr. George Carlo, who oversaw a comprehensive research group commissioned by the cell phone industry in the mid-1990s.

When Carlo's research began to reveal how there were indeed serious health concerns with wireless technology, the industry sought to bury the results and discredit Carlo. Yet Carlo's research has since been upheld in a wealth of subsequent studies and has continuing relevance given the ubiquity of wireless apparatuses and the even more powerful smart meters. "One thing all these conditions have in common is a disruption, to varying degrees, of intercellular communication," Carlo observes. "When we were growing up, TV antennas were on top of our houses and such waves were up in the sky. Cell phones and Wi-Fi have brought those things down to the street, integrated them into the environment, and that's absolutely new." [10]

In 2007 the BioInitiative Working Group, a worldwide body of scientists and public health experts, released a 650- page document with over 2000 studies linking RF and EMF exposure to cancer, Alzheimer's disease, DNA damage, immune system dysfunction, cellular damage and tissue reduction. [11]

In May 2011 the World Health Organization's International Agency for Research on Cancer categorized "radiofrequency electromagnetic fields as possibly carcinogenic to humans based on an increased risk for glioma, a malignant type of brain cancer, associated with wireless cellphone use." [12]

In November 2011 the Board of the American Academy of Environmental Medicine (AAEM), a national organization of medical and osteopathic physicians, called on California's Public Utilities Commission to issue a moratorium on the continued installation of smart meters in residences and schools "based on a scientific assessment of the current available literature." "[E]xisting FCC guidelines for RF safety that have been used to justify installations of smart meters," the panel wrote, "only look at thermal tissue damage and are obsolete, since many modern studies show metabolic and genomic damage from RF and ELF exposure below the level of intensity which heats tissues ... More modern literature shows medically and biologically significant effects of RF and ELF at lower energy densities. These effects accumulate over time, which is an important consideration given the chronic nature of exposure from 'smart meters.'" [13]

In April 2012 the AAEM issued a formal position paper on the health effects of RF and EMF exposure based on a literature review of the most recent research. The organization pointed to how government and industry arguments alleging the doubtful nature of the science on non-thermal effects of RF were not defensible in light of the newest studies. "Genetic damage, reproductive defects, cancer, neurological degeneration and nervous system dysfunction, immune system dysfunction, cognitive effects, protein and peptide damage, kidney damage, and developmental effects have all been reported in the peer-reviewed scientific literature," AAEM concluded.[14]

Radiating Children

The rollout of smart meters proceeds alongside increased installation of wireless technology and cell phone towers in and around schools in the US. In 2010 Professor Magda Havas conducted a study of schools in 50 US state capitols and Washington DC to determine students' potential exposure to nearby cell towers. A total 6,140 schools serving 2.3 million students were surveyed using the antennasearch.com database. Of these, 13% of the schools serving 299,000 students have a cell tower within a quarter mile of school grounds, and another 50% of the schools where 1,145,000 attend have a tower within a 0.6 mile radius. The installation of wireless networks and now smart meters on and around school properties further increases children's RF exposure.[15]

Many school districts that are strapped for cash in the face of state budget cuts are willing to ignore the abundance of scientific research on RF dangers and sign on with telecom companies to situate cell towers directly on school premises. Again, the FCC's thermal effect rule is invoked to justify tower placement together with a disregard of the available studies.

The School District of Palm Beach County, the eleventh largest school district in the US, provides one such example. Ten of its campuses already have cell towers on their grounds while the district ponders lifting a ban established in 1997 that would allow for the positioning of even more towers. When concerned parents contacted the school district for an explanation of its wireless policies, the administration assembled a document, "Health Organization Information and Academic Research Studies Regarding the Health Effects of Cell Tower Signals." The report carefully selected pronouncements from telecom industry funded organizations such as the American Cancer Society and out-of-date scientific studies supporting the FCC's stance on wireless while excluding the long list of studies and literature reviews pointing to the dangers of RF and EMF radiation emitted by wireless networks and cell towers. [16]

The Precautionary Principle / Conclusion

Surrounded by the sizable and growing body of scientific literature pointing to the obvious dangers of wireless technology, utility companies installing smart meters on millions of homes across the US and school officials who accommodate cell towers on their grounds are performing an extreme disservice to their often vulnerable constituencies. Indeed, such actions constitute the reckless long term endangerment of public health for short term gain, sharply contrasting with more judicious decision making.

The 1992 Rio Declaration on Environment & Development adopted the precautionary principle as a rule to follow in the situations utilities and school districts find themselves in today. "Where there are threats of serious or irreversible damage lack of full scientific certainty shall not be used as a reason for postponing cost effective measures to prevent environmental degradation." [17] In exercising the precautionary principle, public governance and regulatory bodies should "take preventive action in the face of scientific uncertainty to prevent harm. The focus is no longer on measuring or managing harm, but preventing harm." [18]

Along these lines, the European Union and the Los Angeles School District have prohibited cell phone towers on school grounds until the scientific research on the human health effects of RF are conclusive. The International Association of Fire Fighters also interdicted cell towers on fire stations pending "a study with the highest scientific merit and integrity on health effects of exposure to low-intensity [radio frequency/microwave] radiation is conducted and it is proven that such sitings are not hazardous to the

health of our members.”[19]

Unwitting families with smart meters on their homes and children with cell towers humming outside their classrooms suggest the extent to which the energy, telecom and wireless industries have manipulated the regulatory process to greatly privilege profits over public health. Moreover, it reveals how the population suffers for want of meaningful and conclusive information on the very real dangers of RF while the telecom and wireless interests successfully cajole the media into considering one scientific study at a time.

“When you put the science together, we come to the irrefutable conclusion that there’s a major health crisis coming, probably already underway,” George Carlo cautions. “Not just cancer, but also learning disabilities, attention deficit disorder, autism, Alzheimer’s, Parkinson’s, and psychological and behavioral problems—all mediated by the same mechanism. That’s why we’re so worried. Time is running out.”[20]

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<http://www.globalresearch.ca/PrintArticle.php?articleId=31816> Page 3 of 5

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James F. Tracy is Associate Professor of Media Studies at Florida Atlantic University. He is an affiliate of Project Censored and blogs at memorygap.org.

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F179

Craig, Susan@Coastal

From: Kathleen Perez [kperezcp@yahoo.com]

Sent: Tuesday, August 07, 2012 8:14 PM

To: Craig, Susan@Coastal

Subject: Cell towers on the North Coast

To whom it may concern:

My family and I would like to go on record as supporting the microcells on the North Coast. There are huge gaps in coverage on the coast and it would be so much easier and faster to contact 911 in an emergency rather than walking or driving to one of the emergency phones.

I also want the powers that be to be aware that at some point in time Cemex will have to take the tower down on their property. As we understand it, Cemex has to return the property to its natural state in order to sell it. When that happens; all of Davenport and some of the surrounding area will lose cell phone coverage. Most people have eliminated their land lines in favor of cell service. As far as we know, all carriers have their antennas on the tower and we do lose coverage periodically when the cement plant is without power.

In closing we want to again say that *we support the microcells on the coast!*

Sincerely,

Jose and Kathleen Perez
Carlos and Alisha Perez
Alicia and Kenneth Engelhaupt
Residents of 253 San Vicente Street, Davenport

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AUG 08 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

8/8/2012

40

F17a

Declaration of Winifred Thomas.

I, Winifred Thomas, have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law. I hereby declare:

1. My name is Winifred Thomas, and I reside at 514 Grove Street, Half Moon Bay, CA 94019.
2. I currently enjoy access to beaches along the Santa Cruz County coastline.
3. I suffer from electromagnetic hypersensitivity (EHS). When exposed to wireless, electromagnetic fields from cell phones, wifi, cell towers, and smart meters, I develop neurological symptoms, heart problems, blurred vision, optical migraines, and more.
3. Given the substantial peer-reviewed research showing a direct correlation between wireless radiation and a myriad of negative health impacts, I have chosen to eliminate/limit wireless radiation from my home/lifestyle and to avoid areas where such radiation is present whenever possible.
4. If NextG's proposed project to install 6 cell sites along Highway One is granted a coastal permit by the California Coastal Commission, I will no longer enjoy the level of access to the coast that I currently enjoy.

I declare under penalty of perjury that the foregoing is true and correct. I have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law.

This declaration was executed this second day of August, 2012 at Palo Alto, CA.

Is/ *Winifred Thomas*

*W. Thomas
514 Grove Street
HMB, CA 94019*

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CENTRAL COAST AREA

41

F/79

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Monday August 7, 2012

AUG 07 2012

Dear Susan,

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

I am writing out of a hope that you will work hard to advocate for the safety of the land, wildlife, and community along the coast. I am a resident of the Coast Road community, and so highly value the health and integrity of the land that I live on.

For many reasons, I oppose the Verizon wireless project. Some of my reasons include health, safety, aesthetics and environmental protection. Too many times in our history, dangerous infrastructures have been put in place with not enough critical action taken to protect people and the environment. I support you in opposing this project, and holding to a wise and respectful relationship to the wild.

Thank you for your time!

Sincerely,

Melody Overstreet



F17a

RESPRESENTATIVE FORM
LETTER RECEIVED FROM 32
SEPARATE INDIVIDUALS

Wednesday, July 18th 2012

California Coastal Commission c/o Susan Craig
725 Front Street, Suite 300
Santa Cruz, CA 95060

Dear CA Coastal Commission,

I am a resident of Santa Cruz County, and I am opposed to NextG's proposed construction of 6 new cell sites along Highway 1 and Swanton Rd (project #111114). I urge you to withhold a coastal permit for this project as it violates several sections of the Coastal Act related to coastal views, habitat preservation, and coastal access.

Radiofrequency microwave radiation from cell sites, phones, smart meters, wi-fi and other wireless devices is now designated by the World Health Organization as a Class 2B carcinogen in the same category as lead, DDT, and chloroform. Many peer-reviewed studies show damage to human and environmental health from cell tower radiation. I am concerned about my own exposure, and am in favor of at least one area of the county remaining somewhat of a refuge from microwave radiation- for plants, animals, and humans.

I enjoy our coastline as it is- I am opposed to the effect that new, permanent structures in this pristine area of our County's coast will have on the aesthetics of the area, and the level of clutter. Since the mock-ups went up on poles in the area, the coast feels less natural and more industrial in nature. In several areas the battery boxes, wires, and cell site panels are currently obstructing views. I respectfully request that you have these mock-ups removed as soon as possible and deny NextG's permit request.

Adding 4G service to remote sections of Highway 1 may very well compromise traffic safety by introducing a new distraction potential for drivers.

There are already call boxes along highway 1- and existing cell service in many places. We do not need 4G streaming video on our remote beaches to keep us safe- in this case the costs outweigh the benefits. I urge you to reject this project as it is inconsistent with the Coastal Act and inappropriate for the setting.

Sincerely,

Stephen Concanan

789 San Lorenzo Ave.

Felton, CA 95018

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AUG 08 2012

June 20th 2012

Declaration of Toril H. Jelter M.D.

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

I, Toril H. Jelter M.D. , have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law. I hereby declare:

1. My name is Toril H. Jelter M.D., and I reside at 460 Marshall Drive, Walnut Creek, CA 94598
2. I currently enjoy access to beaches along the Southern San Mateo County and Northern Santa Cruz County coastline.
3. For the past two years, following the installation of PG&E smart meters in my neighborhood, I have suffered from electromagnetic hypersensitivity (EHS).
4. When exposed to wireless, electromagnetic fields from cell phones, wifi, cell towers, and smart meters, I develop symptoms such as headache, severe ringing in the ears (tinnitus), fatigue, and physical weakness.
5. As a physician, I recommend to policymakers that a concerted effort be made to set aside certain areas so that people with EMF sensitivity may also enjoy the outdoors.
6. Based on current, peer-reviewed research, it is my professional opinion that non-ionizing radiation poses a serious health risk to the general public.
7. If NextG's proposed project to install 7 cell sites along Highway One between Santa Cruz and the San Mateo County line is granted a coastal permit by the California Coastal Commission, I will no longer realistically have access to the beaches that I currently enjoy.
8. In countries like Sweden, legislation has been approved to protect the rights of those suffering from electromagnetic sensitivity so that people with this functional impairment have equal access to work, home, and recreational opportunities like their peers.

I declare under penalty of perjury that the foregoing is true and correct. I have personal knowledge of all facts set forth and am competent to testify thereto if called upon to testify in a court of law. Toril H. Jelter M.D.

F-17a

Declaration of Glen Chase

I, Glen Chase, have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law. I hereby declare:

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(S) D. Chapman
AUG 13 2012

1. My name is Glen Chase and I reside at
117 Harrison Court, Santa Cruz, California, 95062

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

2. I currently have access to the Santa Cruz County beaches and coastline.

3. The 6 proposed cell tower sites, currently marked by mock-ups, significantly decrease my enjoyment of the beaches and viewsheds along and in the vicinity of Highway One in Northern Santa Cruz County. The mock-ups add a substantial amount of visual clutter to the area. Several coastal vistas have been negatively impacted by the presence of these mock-ups which detract from the pristine, undeveloped atmosphere and scenery.

4. Given that there exists substantial peer-reviewed research showing a direct correlation between wireless microwave radiation and a myriad of negative health impacts, I have chosen to eliminate wireless radiation from my home and lifestyle. I therefore avoid areas where such radiation is present, or spend as little time as possible in such areas in order to safeguard my health.

5. If NextG's proposed project to install 6 new cell sites along Highway One between Santa Cruz and the Santa Mateo County line is granted a coastal permit by the California Coastal Commission, I will no longer have the level of access to the coast that I currently have and my enjoyment of the coast will greatly diminish.

I declare under penalty of perjury that the foregoing is true and correct. I have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law.

This declaration was executed this August 6th, 2012 at Santa Cruz, California.



signed Glen Chase

45

Friday, July 20, 2012

Declaration of Alithea Garcia-Romero

I, Alithea Garcia-Romero, have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law. I hereby declare:

1. My name is Alithea Garcia-Romero and I reside at 3801 Low Gap Road, Ukiah, California, 95482.

2. I currently have access to beaches along the Santa Cruz County coastline.

3. I suffer from electromagnetic hypersensitivity (EHS). When exposed to wireless radiation, electromagnetic fields from cell towers and phones, wifi, smart meters, etc. I develop adverse negative symptoms.

4. As I have been injured by electromagnetic frequency I therefore must limit exposure and avoid further exposure to this type of radiation by avoiding places where such radiation exists.

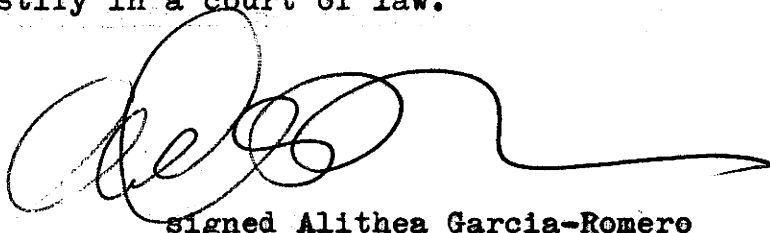
5. If NextG's proposed project to install 6 new cell sites along Highway One between Santa Cruz and the San Mateo County line is granted a coastal permit by the California Coastal Commission, I will no longer realistically have access to the beaches that I currently enjoy.

I declare under penalty of perjury that the foregoing is true and correct. I have personal knowledge of all facts set forth and am competent to testify thereto if called upon to testify in a court of law.

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CENTRAL COAST AREA



signed Alithea Garcia-Romero

F17a

Declaration of Karen Nevis

I, Karen Nevis, have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law. I hereby declare:

1. My name is Karen Nevis, and I reside at 4320 Clares St. #G Capitola, CA
2. I currently enjoy access to beaches, hiking and biking along the Santa Cruz County coastline, especially up Highway 1 to Davenport and Swanton, and biking up to Pescadero.
3. I enjoy utilizing the pristine coastal rolling hills and forested areas up the coast from Santa Cruz for outdoor activities and also to visit Davenport and take in the restaurants and cafes.
4. I suffer from electromagnetic hypersensitivity (EHS). When exposed to wireless, electromagnetic fields from cell phones, wifi, cell towers, and smart meters, I develop symptoms immediately including throbbing in my head, headaches, loss of appetite and vomiting, nosebleeds, memory lapses, anxiety and stress.
5. I have been injured by electromagnetic frequency emitted by wireless communications and therefore must limit further exposure to this type of radiation, by avoiding areas and places where such radiation is present.
6. Due to severe symptoms when exposed to microwave wireless radiation, and given the substantial peer-reviewed research showing a direct correlation between wireless radiation and a myriad of negative health impacts, I have chosen to eliminate/limit wireless radiation from my home/lifestyle and to avoid areas where such radiation is present whenever possible including no cell phone, microwave, wifi, dect remote phone, pager, texting, wireless devices and now I have to continuously detox, change diet and get regular medical appointments to try and stay well. The effect of microwave radiation is cumulative and damages the human body. I often cannot think clearly. Frequently I have a whole day or two where I am flat out and cannot eat, work or function as have severe headaches (never had these before) and often it results in vomiting, nosebleeds and lack of energy, almost to a lethargic state.
7. If NextG's proposed project to install 6 cell sites along Highway One between Santa Cruz and the San Mateo County line is granted a coastal permit by the California Coastal Commission, I will no longer enjoy the level of access to the coast that I currently enjoy and would have to seriously consider not being able to do outdoor activities in these areas.

I declare under penalty of perjury that the foregoing is true and correct. I have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law.

This declaration was executed this 31st day of July, 2012 at Capitola, CA.

Karen Nevis

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AUG 06 2012

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CENTRAL COAST AREA

47

4G—at WHAT PRICE?

F17a

Verizon Wants to MICROWAVE Big Basin State Park



SCAN ME



SCAN ME

**Keep Microwave Radiation out of our Wilderness areas!
Demand that Verizon abandon the North Coast cell project.
Keep our beaches wild and free!**

Verizon Wireless plans to construct 6 new cell towers along Santa Cruz County's rugged North Coast including one within yards of Big Basin's Waddell Creek wetland, a habitat for endangered species like the red legged frog, coho salmon, and pond turtle. A growing number of studies indicate serious health and environmental risks from wireless technology—including brain tumors in cell phone users and devastation of wildlife near cell towers.

Learn more and demand a moratorium on wireless proliferation.

- Write to the CA Coastal Commission: c/o Susan Craig 725 Front St. Suite 300 Santa Cruz CA 95060
- Speak out at the hearing Aug. 8th-10th at County Building • Call Verizon now—switch providers or Dump the "smart" phone entirely—tell them why: 1.800.8374966

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**PROTEST / TEACH-IN AGAINST
THE SMART GRID AND WIRELESS PROLIFERATION
Saturday July 21st 4pm**

at Verizon Wireless store on Pacific Ave. in Santa Cruz. (across from Cinema 9)

More info: info@stopsmartmeters.org / PO Box 30 Davenport CA 95017 • Sponsored by Coastal Neighbors Against Unnecessary Wireless Facilities and Stop Smart Meters! StopSmartMeters.Org

48

Declaration of Angela Louise Flynn.

I, Angela Louise Flynn, have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law. I hereby declare:

1. My name is Angela Louise Flynn, and I reside at 351 Redwood Heights Road, Aptos, California 95003.
2. I currently enjoy access to beaches along the Santa Cruz County coastline. In particular I go to Scott's Creek and Waddell Creek beaches as well as hike and camp in Big Basin Redwoods State Park.
3. I have been injured by exposure to the radio frequency microwave radiation emitted by wireless communications. My injuries were sustained while I lived approximately 300 feet from cell phone infrastructure transmitters for the duration of two years.
4. Due to this long term constant exposure I have become sensitized to microwave radiation. I have removed all transmitters from my home and I avoid visiting or spending time at locations near transmitters.
5. If I do allow myself to get high exposure in close proximity to transmitters I have found that I must spend time as far as possible from transmitters until I recover. (Comparable to sun exposure. Once burned we must avoid sun exposure until we heal.)
6. I often visit Scott Creek State Beach as it is a location with very low levels of microwaves. I also hike and camp in Big Basin State park as a way to recover from high exposure.

7. Wildlife viewing is another activity that I enjoy along the coast of Highway 1. Substantial peer-reviewed research shows a direct correlation between wireless radiation and a myriad of negative health impacts, including harm to wildlife. In particular the Red Legged Frog, Western Pond Turtle, and Coho Salmon reproduction will be jeopardized as microwaves harm their tadpoles, hatchlings and alevin. This harm and the potential diminishing of wildlife populations would diminish my enjoyment of this area.

8. If NextG's proposed project to install 6 cell sites along Highway One between Santa Cruz and the San Mateo County line is granted a coastal permit by the California Coastal Commission, I will no longer have the level of access to and the enjoyment of the coast that I currently have.

I declare under penalty of perjury that the foregoing is true and correct. I have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law.

This declaration was executed this 24th day of July, 2012 at Aptos, California.



Angela Louise Flynn

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AUG 06 2012

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COASTAL COMMISSION
CENTRAL COAST EA

Declaration of Heidi Bonser

I, Heidi Bonser, have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law. I hereby declare:

1. My name is Heidi Bonser and I reside in Davenport, California.
2. I currently have access to beaches along the Santa Cruz County coastline. In particular I spend a lot of time at Waddell Beach, Rancho Del Oso, and the wetlands area where the Waddell Creek meets the ocean. I enjoy hiking and viewing wildlife at the wetlands and at Rancho Del Oso and Big Basin State Park.
3. I currently ride my bicycle along Highway One between Santa Cruz (city) and Año Nuevo. I also ride on Swanton Road. I frequently commute by bicycle between Santa Cruz and my home in Davenport.
4. The 6 new ~~cell~~ cell sites proposed by nextG, currently marked by mock-ups, significantly decrease my enjoyment of the areas described above (#s 2 & 3). The mock-ups add a substantial amount of visual clutter to the area. Several coastal vistas have been negatively impacted by the presence of these mock-ups which detract from the pristine, undeveloped atmosphere and scenery.
5. I currently feel safe riding my bicycle in the areas described above, as I observe and believe that most drivers are not distracted by their cell phones while driving. Should NextG's proposed cell sites become active and 4G technology become widely available in these areas I fear I would no longer be as safe riding my bicycle because people would be able to use their smart phones/cell phones and perhaps become more distracted and potentially endanger me on my bicycle. This would significantly limit my ability to enjoy these areas as well as impact my commute between my home and Santa Cruz. I simply would not feel as safe as I currently do and would likely ride less or not at all.
6. Wildlife viewing is another activity that I enjoy along the coast of Highway One. Substantial peer-reviewed research shows a direct correlation between wireless radiation and harm to wildlife. In particular the Red Legged Frog, Western Pond Turtle, and Coho Salmon reproduction will be

jeopardized as microwaves harm their tadpoles, hatchlings, and alevin. This harm and the potential diminishing of wildlife populations would diminish my enjoyment of this area.

7. Given that there exists substantial peer-reviewed research showing a direct correlation between wireless radiation and a myriad of negative health impacts, I have chosen to eliminate wireless radiation from my home and lifestyle. I also avoid areas where such radiation is present whenever possible in order to safeguard my health.

8. If NextG's proposed project to install 6 new cell sites along Highway One between Santa Cruz and the San Mateo County line is granted a coastal permit by the California Coastal Commission, I will no longer have the level of access to the coast that I currently have and my enjoyment of the coast will greatly diminish.

I declare under penalty of perjury that the foregoing is true and correct. I have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law.

This declaration was executed this 1st day of August, 2012 at Davenport, California.

Heidi Bonser

Heidi Bonser

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AUG 06 2012

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COASTAL COMMISSION
CENTRAL COAST AREA

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AUG 06 2012

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CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

Declaration of Tammie Donnelly

I, Tammie Donnelly, have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law. I hereby declare:

1. My name is Tammie Donnelly, and I reside at 530 Sea Horse Dr., Watsonville, CA 95076
2. I currently enjoy access to beaches along the Santa Cruz County coastline.
3. I suffer from electromagnetic hypersensitivity (EHS). When exposed to wireless, electromagnetic fields from cell phones, wifi, cell towers, and smart meters, I develop symptoms such as headaches, dizziness, pain and ringing in the ears, heart palpitations, and sleeping issues.
4. I have been injured by electromagnetic frequency emitted by wireless communications and therefore must limit further exposure to this type of radiation, by avoiding areas and places where such radiation is present.
5. If NextG's proposed project to install 6 cell sites along Highway One between Santa Cruz and the San Mateo County line is granted a coastal permit by the California Coastal Commission, I will no longer enjoy the level of access to the coast that I currently enjoy.

I declare under penalty of perjury that the foregoing is true and correct. I have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law.

This declaration was executed this 31st day of July, 2012
at La Selva Beach, CA.

Jamie Donnelly
P.O. Box 2866
Aptos, Ca 95001

Joshua Hart
P.O. Box 30
Davenport, CA 95017

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cc D. Chapman
AUG 13 2012

F17a

Declaration of Rhonda Hoefs

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

I, Rhonda Hoefs, have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law. I hereby declare:

My name is Rhonda Hoefs and I reside in Felton, CA, 95018.

I currently enjoy access to beaches along the Santa Cruz County coastline and I go to them to get away.

Get away in the popular vernacular means to get away from the pressures of modern life. For me, this includes the heavy electromagnetic soup we now live in. In our home my room-mate and I have constant ringing in our ears from power poles, neighbors' wireless systems, their wireless Smartmeters, and cell towers. Thereby, we cherish being able to recharge our minds and bodies by going to nearby places that are free of such interference.

There are fewer and fewer of these places left. Just like people who must constantly be on their phones while dining out with friends I find that the idea I must be always surrounded by cell towers even while out in nature an oxymoron. I go to natural places to experience what was there before humans put their fingerprints upon it. I don't want mowed, chemically fertilized lawns; I'm not looking for zoos with animals in cages. I don't want to walk on beaches owned by mansion owners who live next to them.

We have made laws that prohibit billboards dotting the landscape. Cell towers on every corner is a similar thing, only harmful to bees and birds who must live near them.

For those of us who are compromised by electromagnetic toxicity, limited by where we can work, if we can work, the difficulty of finding an emf safe place to live and recuperate, it is imperative that we have close locations we can visit and stay to try and keep our health.

These are public beaches and all should have access to them. There are plenty of built up beaches already and sufficient cell coverage in the area for emergency 911 calls. We do not need to contribute to the growing visual blight affecting most of our highways. Can we not leave some of our long protected north coast beaches as sanctuaries for all—all people, regardless of sensitivities or disabilities and animals alike?

I would have no place to go locally to get away from this radiation if this plan is allowed to go through. Even the State Parks are irradiated now. The greed of the cell companies to cover every church, school, park and natural forest and wildland is out of control. As a citizen and contributing member of this County I do have a right to my health.

I will not be able to enjoy these beaches if this plan goes through.

I declare under penalty of perjury that the foregoing is true and correct. I have personal knowledge of all facts set forth in this declaration and am competent to testify thereto if called upon to testify in a court of law.

This declaration was executed this August 4th, 2012 at Felton, CA.

Rhonda Hoefs

Rhonda Hoefs

F17a

Craig, Susan@Coastal

From: Bob Landry [bob@landryunlimited.com]
Sent: Thursday, August 02, 2012 3:38 PM
To: Craig, Susan@Coastal
Subject: Cell service on Hwy 1

Hi Susan,

I am writing in support of NextG's Micro-cell project along Hwy 1 in North Santa Cruz County. I think it is a good solution to the issue of no cell coverage up there. The lack of Cell service in that area is dangerous in this time of decreasing land line use. The above project would be a win win for all concerned as it does not call for an increased foot print while adding to our much used communications infrastructure. I urge you to oppose the appeal. Please forward this message to anyone you think should get it.

Thank you,

Bob Landry

211 Trescony St.

Santa Cruz, 95060

831.239.8706

<http://www.LandryUnlimited.com>

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CENTRAL COAST AREA

8/2/2012

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F17a

Craig, Susan@Coastal

From: Edy Rayfield [edyrayfield@sbcglobal.net]

Sent: Thursday, August 02, 2012 6:41 PM

To: Craig, Susan@Coastal

Subject: cell towers

I am a 40 plus resident of Davenport and I am VERY opposed to these. Please reconsider. Some of us are very concerned about the health issues and there is already very adequate service here. Why more? We don't need, nor want them. Who benefits? And who makes money from these? That's what I would like to know. It's certainly not for our benefit.

Edy Rayfield

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AUG 02 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

F17a

Craig, Susan@Coastal

From: Tom Scully [tomscully@comcast.net]

Sent: Thursday, August 02, 2012 9:04 AM

To: Craig, Susan@Coastal

Subject: NextG Cell Application

Hi Ms Craig,

I understand that the Coastal Commission is considering a contested proposal to provide cell phone coverage on parts of the Santa Cruz north coast.

I am a 3 decades plus career emergency responder and have witnessed the evolution from home phones/pay phones only to cell phones to smart phones and can attest, with no reservation, that cell phones have exponentially increased the availability of emergency services to a wider array of our citizenry.

A case in point, two weeks ago a motorcyclist lost control at the end of my driveway in Bonny Doon and crashed. He was riding with 4 others who all had cell phones but one of them needed to come to my home to make the call to 9-1-1 as there is no cell service here. They all had cell phones but they were useless. If we were not home at the time they would have had to search other neighbors until they found one that was home to assist their fallen comrade. That is not a realistic possibility on many parts of the Santa Cruz north coast.

I understand that there are a variety of arguments that can be made to stop any progress. The ones presented by the appellants seemed to have been well researched and documented by the Coastal Commission staff in a finding for approval.

I encourage the Commission to vote YES on the Commission staff's motion and resolution that will increase safety on our coast.

Tom Scully
3557 Pine Flat Rd.
Santa Cruz, CA 95060
TomScully@Comcast.net
(831) 331-7275 - Cell

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AUG 02 2012

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COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060
(831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123
KATHLEEN MOLLOY PREVISICH, PLANNING DIRECTOR

September 15, 2011

Natasha Ernst
Next G Networks of California
890 Tasman Drive
Milpitas, CA 95035

Re: Coastal Permit Exemption for Fiber Optic Cable Installation on Existing State Highway
One Pole Line

Dear Ms. Ernst,

As we discussed today, County Planning Department and Coastal Commission staff have determined that Next G's proposed installation of a single fiber optic cable (of less than one inch in diameter) along the existing utility pole line on the inland side of the Highway One right-of-way, and along Swanton Road, north of the City of Santa Cruz, qualifies for an exemption from the requirement to obtain a Coastal Development Permit. This is because we agree that, as you have stated, the proposed fiber optic cable will be used, among other things, to enhance public safety by expanding e911 services along portions of Cabrillo Highway where there are currently inadequate or no e911 services. We also concur that the proposed installation will not result in an increase in land coverage, height or bulk, and thus will qualify for a Coastal Permit exemption, as per County Code Section 13.20.063(a)(5). We furthermore agree that the proposed installation will not involve: (1) the construction of any new roads, (2) any grading, (3) clearing of sensitive habitat or of any land, or (4) the cutting of any trees, and therefore is consistent with the Coastal Permit exemption requirements contained in County Code Section 13.20.063(b).

Please let me know if you have any questions regarding this determination,

Sincerely,

Frank Barron, AICP
Santa Cruz County Planning Department

RECEIVED

JUL 30 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

60

Dear Ms. Craig,

As you know, Verizon Wireless is attempting to expand 4G service up the North Coast, into the Waddell Creek area. This is an unnecessary project that will needlessly degrade the environment, and ultimately change the quality of a State Park area that we all enjoy.

Installing 4G capability, by the Nation's biggest carrier into the State Parks, and onto the beach will have adverse effects on a very special stretch of coast that is actually kept pristine by lack of mass cellular service. Currently cell service exists a few miles out of the Parks towards Davenport, and the North Coast here is a refuge for many to get away from the daily grind, and enjoy the natural beauty of the area through a variety of activities. Hiking to Berry Creek Falls, or soaking in the beauty of this area will be severely diminished by people talking on their phones. Every inch of land does not need to be covered by cellular service.

Verizon argues that the service is necessary for safety, however, Sprint works perfectly, and a tower is stationed at Big Creek. Emergency personnel already have it, and after Hurricane Katrina, 911 calls will work through existing networks.

I am equally concerned that there is currently a lawsuit against the installation company, NextG. The installation of transformers in Malibu caused poles to be overweight, and they blew down in high winds, causing wildfires. The plan here is to install them on power poles in the middle of a wind corridor. Waddell Creek is one of the premiere Kite Surfing areas in the United States, and the pole they want to install on already has 3 devices attached to it.

I would urge the Coastal Commission to say no to this project, and to help protect and preserve a one of a kind stretch of California Coast.

Thank you in advance,

Zachary Hood
422 Olive St
Santa Cruz, CA 95060
(831) 426-2987

Surfers Against Verizon Expansion

RECEIVED

JUL 21 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

COASTAL COMMISSION
C/O SUSAN CRAIG 61
725 FRONT STREET
SANTA CRUZ, CA 95060

F179

271 Seely Avenue

Aromas, CA 95004

July 23, 2012

Attn: Commissioner Mark Stone
California Coastal Commission
725 Front St

Santa Cruz, CA 95060

Dear Commissioner Mark Stone,

RECEIVED

JUL 25 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

Regarding Permit number A-3-500-12-006, I am
opposed to the installation of six new microcell facilities.

The question of radiation effects has not been
answered. In addition, but less important perhaps, is the
aesthetics of these facilities. Then there is the subtraction
of agricultural land on Swanton Road - land that is already
dwindling to make room for development.

As an 88 year old I need not be personally concerned.
But I am concerned for the legacy of toxicity, and
destruction of wildlife habitat that over time will
adversely affect everyone.

Sincerely,

P.S. In addition, the booking
of Verizon and Pacific Gas & Electric

further reduces the legitimacy of this project.

Robyn Nayyar

602

F17a

Dear Ms. Craig,

As you know, Verizon Wireless is attempting to expand 4G service up the North Coast, into the Waddell Creek area. This is an unnecessary project that will needlessly degrade the environment, and ultimately change the quality of a State Park area that we all enjoy.

Installing 4G capability, by the Nation's biggest carrier into the State Parks, and onto the beach will have adverse effects on a very special stretch of coast that is actually kept pristine by lack of mass cellular service. Currently cell service exists a few miles out of the Parks towards Davenport, and the North Coast here is a refuge for many to get away from the daily grind, and enjoy the natural beauty of the area through a variety of activities. Hiking to Berry Creek Falls, or soaking in the beauty of this area will be severely diminished by people talking on their phones. Every inch of land does not need to be covered by cellular service.

Verizon argues that the service is necessary for safety, however, Sprint works perfectly, and a tower is stationed at Big Creek. Emergency personnel already have it, and after Hurricane Katrina, 911 calls will work through existing networks.

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I would urge the Coastal Commission to say no to this project, and to help protect and preserve a one of a kind stretch of California Coast.

Thank you in advance,

LB

Lyle Bergerson

Surfers Against Verizon Expansion

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JUL 25 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

606 Laurent St
Santa Cruz, CA

95060

(142)

63

POLE ALREADY HAS 3
DEVICES ATTACHED. VERIZON
ADDING A 4TH ?

THIS POLE AT WADELLE CREEK
IS SUBJECT TO HIGH WINDS.

(2 of 2)

64



F/7a
RECEIVED July 20/12

JUL 24 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

Dear Ms. Craig + Assoc. -

The Coast north of Santa Cruz and south of San Francisco, especially south of Pacifica, is unique in all of California. It can be driven along and yet is relatively primitive. Friends from Arizona who experienced it were amazed a portion of coastline so close to large urban areas could be so undeveloped when they visited. Big Sur, of course, has very little access to its beaches, and much of Mendocino County is the same.

To have such pristine coastline near to large urban areas – San Francisco Bay area and Silicon Valley, is not an accident. It has taken hard, diligent work to keep developers out. Why ruin it now?

People travel here, as do I, to get away from all the accruements of modern life, to be surrounded by natural beauty—for restorative purposes. As artists, nature lovers and tourists we don't want to have cell towers and related equipment marring our views. My housemate is a photographer and he doesn't come here to photograph urban trappings!

We also are not wanting the heavy electromagnetic load that increased cell towers would bring to the area. For emergency purposes we know that the

area is already covered for 911 calls. People need to be paying attention to their driving on Highway 1, not texting or talking on their phones.

When we leave our dense neighborhood saturated with wireless communications and SmartMeters, constant ringing and the stresses this creates (see Santa Cruz County's recorded report by its Health Officer) we come to the North Coast for some peace, quiet and natural beauty. Can't we protect the one area that we have set aside that distinguishes our area from the majority of the Central and Southern California coast?

There is, of course, the effects on wildlife that these fields create. We need to keep some areas available for animals of all types to live as they naturally would do. With the increase in bee, bird and butterfly deaths we need to have a location where they can thrive.

I am sure these large cell companies are throwing large amounts of money your way to build these towers. But we cannot allow our current budget problems to be solved by large corporations that do not have our regional interests at heart. We cannot sell out the values that have led us to protect this land up until this time. Please fulfill your duties and protect our coastline.

RC Hoefs
PO Box 757
Aptos, CA
95001

Thank You -
Rhonda Hoefs

F/7a

California Coastal Commission
C/o Susan Craig
725 Front St., Suite 300
Santa Cruz, CA 95060

RECEIVED July 19, 2012

JUL 20 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

Dear Members of the Commission,

I am writing in opposition to Verizon's planned expansion of wireless 4G service north of Santa Cruz to Ano Nuevo.

This stretch of California coastline is part of a legacy we all enjoy, intended to pass from one generation to the next, and best enjoyed in its open, natural state. To stand on a windblown bluff in silence and watch the ocean surge, clears the internal congestion of urban life. A big part of this is enjoying the vast open space with others, no one immersed in a raised-voice cell phone conversation with back turned against others.

California's magnificent coast beckons us to set our technology aside and reconnect with the natural world. As stewards of this great resource, I respectfully ask that you not open the door to the proliferation of wireless services.

Please vote to deny this expansion and keep the north coast the wild and wonderful place it is. Then, when we return from time spent there, we'll truly know we've been away.

Sincerely,



Ann Cogliati
123 Cress Rd.
Santa Cruz, CA 95060

F17a

RECEIVED

July 19, 2012

California Coastal Commission
C/o Susan Craig
725 Front St. Suite 300
Santa Cruz Ca 95060

JUL 20 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

Dear Commission Members,

I am writing to you in regards to the North Coast net & project. I would like to convey my objections to the construction of antenna towers along the North Coast for the purpose of providing 4G service. This is an area of Santa Cruz County that is free from major development, and it is rural and beautiful. In this age of rapidly growing technology, it would be a wonderful thing to keep some areas free from high-tech devices. I don't believe that every section of the County has to be covered by the grid. It is a good thing to have places where one can go and get away from our phones and Computer. I believe that there is already emergency service along the Coast. I urge you to deny this project, and leave this area as natural as possible.

Thank you for your Consideration.

Sincerely,

Steve Cogliati

123 Cross Rd.

Santa Cruz Ca, 95060

68

F17a

Marty Demare
5430 Coast Road
Santa Cruz, CA 95060

July 19, 2012

Susan Craig
Supervising Planner
California Coastal Commission
725 Front Street, Suite 360
Santa Cruz, CA 95060

RECEIVED

JUL 19 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

Re: Appeal A-SCO-12-06 of Approval of Application #111114, Santa Cruz County

Dear Ms. Craig and Coastal Commissioners,

This application under appeal presents a failure of the current regulatory framework to prevent or mitigate the project's impacts on coastal visual resources or to assure any public benefit from the project's use of public right of way. The underlying problems together constitute a substantial issue for the Coastal Commission.

1. The project description included in the application for a Coastal Development Permit does not include any reference to the fact that the microcell Distributed Antenna System (DAS) includes and depends on connection to a new fiber optic cable installed along approximately 13 miles of the Highway 1 scenic corridor. This installation required the placement of at least 20 new "temporary" poles in the scenic corridor and on State Park land but there is currently no regulatory mechanism or requirement that specifies how long the poles may remain in place or what process will initiate their removal.
2. Despite stringent viewshed protection language in the Santa Cruz county LCP pertaining to coastal development, there is none to provide protection from the intrusion of cable installation. Yet scenic highways are protected in many other parts of the state within and outside the Coastal Zone by Public Utility Code Section 320, enacted in 1971, demonstrating legislative intent to protect the public's enjoyment of scenic views along public highways. Section 320 requires undergrounding of new utility wires and cables along or near designated State Scenic Highways. Hwy. 1 has been designated a Scenic Highway as it enters neighboring San Mateo County but has not been designated a scenic highway in Santa Cruz County, so the Coastal Commission is the last resort for preventing further degradation of coastal viewsheds.

The PUC (Resolution T17330) ordered Verizon California to pay a fine for installing overhead cable near a designated Scenic Highway, allowed the overhead cable to remain as a 'Deviation', and as mitigation, ordered Verizon to provide broadband access to nearby unserved communities, possibly subsidized by a grant from the California Advanced Services Fund (CASF) to offset costs of providing said access. Such action by the Coastal Commission would be welcome in this underserved area of the county, especially if it included a condition that there was a willing Competitive Local Exchange Carriers (CLEC) "ready to serve" consumers in the area, perhaps with the help of CASF funding. (NextG, though a CLEC, doesn't offer consumer services)

3. There is no technical review mechanism to examine the engineering choices made by applicants and analyze alternatives that might have less impact. For example, there are plans for a hiking and biking trail along the nearby coastal railroad corridor where the trail construction would present an opportunity for utility undergrounding. A long planned pipe replacement project by the City of Santa Cruz Water Dept. could also include undergrounding of utilities for about half the reach of this project.

4. At the Appeal hearing on Jan. 25, 2012, the Planning Commission's staff advised them that the antenna installation in the Highway right of way did not constitute development even though the application was being processed as a Commercial Development Permit and Coastal Development Permit. This anomaly opens the door to circumvention of the intent of County Code Section 13.20.122 (A) (1) and (2) and (C) (2) governing grounds for appeal to the Coastal Commission.

5. Santa Cruz County Code has not been updated to reflect changes in CPUC requirements relating to placement and configuration of equipment on poles. This creates the need for "exceptions" to County Code in the permit that should not be needed.

6. State Statute §7901, often cited by the applicant, was drafted in 1905 and does not anticipate the current telecommunications industry. A cursory consideration would seem to show that the current situation is covered neatly by that statute but in fact the evolution of the telecommunication industry, exemplified by the current development application before you, represents a different situation than that anticipated at the origination of this statute in 1905 when a single company enjoyed a monopoly. Revision of those antiquated guidelines is needed to reflect the current competition for pole space among telecommunication providers and avoid visual clutter created by redundant cable installations.

Page 3

7. Guidelines presented to guide early implementation of the Coastal Act were adopted in 1978. These guidelines addressed Utility hookup exclusions from Coastal Permit requirements. The guidelines anticipated that there would be review for the proposed activity as part of a proposed development's permit review but in this case the cable installation is not part of the application so no review is performed. The guidelines should be revisited as they precede the creation of Competitive Local Exchange Carriers such as the applicant, NextG, which sprang up after the Telecommunications Act of 1996.

Thank you for your attention to my concerns.

Sincerely yours,

Marty Demare

**RECEIVED**

AUG 01 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

July 31, 2012

Dan Carl, Deputy Director
California Coastal Commission
725 Front Street, Suite 300
Santa Cruz, CA 95060-4508

Re: Appeal No.: A-3-SCO-12-006 (Next G. Santa Cruz Co.)

Dear Director Carl,

Big Creek Lumber Company supports the responsible installation of cellphone transmitters along the Highway 1 corridor north of the City of Santa Cruz. The current lack of coverage in this area constitutes a significant public safety hazard. There is no reliable cellphone coverage from Western Drive in the City of Santa Cruz north to Laguna Creek, (approximately 5 miles). Driving further north on Highway 1, cellphone coverage is again lost between the Scott Creek Bridge and the San Mateo county line.

This section of California Highway 1 has considerable year-round traffic and has experienced a significant number of very serious injury accidents in the past fifteen years. While there is some development in the proposed cellphone coverage area, there is considerable year-round recreation along the highway corridor. There are also recreational and commercial fishing boats operating off this coastline. From approximately two miles north of Long Marine Laboratory in Santa Cruz, vessels cannot reach the Coast Guard or Harbor Patrol on VHF radio emergency channel 16. Cellphone reception is also intermittent to nonexistent on Swanton Road, Last Chance Road, Waddell Canyon and the ocean side of Big Basin State Park.

An additional concern is the long-term status of the cellphone transmitter located on the cement plant property in Davenport. If that facility is dismantled and the existing transmitter removed, there will be virtually no emergency cellphone reception north of the City of Santa Cruz.

Many of our employees live on the north coast of Santa Cruz County or commute to work on Highway 1. All of us are sensitive to the viewshed. We believe the applicant for this project has responsibly addressed the aesthetic concerns associated with the proposed cellphone structures.

Regarding the safety of cellphone radiation, your staff has correctly pointed out that there are divergent scientific opinions as to the effects of cellphone transmissions. While there may be uncertainty regarding this, there can be no question that improving cellphone reception in this area will significantly improve safety and potentially save lives.

We strongly support this project. Thank you for considering our comments.

Sincerely,

Janet McCrary Webb
President

Craig, Susan@Coastal

From: Kevin Karplus [karplus@soe.ucsc.edu]
Sent: Friday, August 03, 2012 5:21 PM
To: Craig, Susan@Coastal
Cc: karplus@soe.ucsc.edu
Subject: Highway 1 cell-phone coverage

I understand that the Coastal Commission will be making a decision soon about cell phone installations on existing utility poles North of Santa Cruz up to Waddell Creek.

Although I do not have a cell phone, I strongly support the extension of cell phone coverage along Hwy 1 as an important safety measure for bicyclists and motorists.

Kevin Karplus karplus@soe.ucsc.edu <http://www.soe.ucsc.edu/~karplus>
Professor of Biomolecular Engineering, University of California, Santa Cruz Graduate
Director, Biomolecular Engineering and Bioinformatics Editorial Board, Bioinformatics
(Oxford University Press) Senior member, IEEE life member (LAB, Adventure Cycling,
American Youth Hostels) Effective Cycling Instructor #218-ck (lapsed) Affiliations for
identification only.

F17a

Carl, Dan@Coastal**From:** Mark Stone [BDS050@co.santa-cruz.ca.us]**Sent:** Wednesday, August 08, 2012 4:38 PM**To:** Carl, Dan@Coastal**Subject:** FW: please don't permit North Coast celltowers

Can you please provide this as an ex-parte in the packet for Friday?

Thanks

/mark

RECEIVED

AUG 08 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA**From:** dorahbee@comcast.net [mailto:dorahbee@comcast.net]**Sent:** Wednesday, August 08, 2012 3:39 PM**To:** Mark Stone**Subject:** please don't permit North Coast celltowers

Dear Commissioner Stone:

My family is grateful to have a Coastal Commission to look after the wellbeing of the coast, not just the beaches but the areas which are part of the coastal environment. I used to live in the Scotts Valley and appreciate the stance you took on bringing the Felton water supply into to public ownership. Thank you for the opportunity to express my opinion. Please do not permit the cell towers proposed by Verizon for the Central Coast, north and south of Davenport.

I live near Davenport on Swanton Rd and am opposed to having cell towers in Big Basin. This is not a case of "not in my backyard" because i am opposed to having such towers or any unnecessary building in any park, wilderness area or preserve. Even though we live off Swanton Rd and it would be a real convenience for us to have cell phone coverage, we would prefer to have the area remain relatively undisturbed for future generations and all the plants and animals. It is better to have a little inconvenience on our part instead of damaging this rich unique place.

How often we've gone to visit some beautiful park and had the scene marred by a cell phone tower, which is providing a luxury service, not a necessity. Not only that, the service roads to and from the towers and the auxiliary equipment cause damage to the environment, including erosion and disturbance to the plants and animals. Putting in these towers literally makes inroads into our remaining preserves.

My family and I drive up and down hiway one almost every day, going to work and other activities. Sometimes we need to make the trip twice a day. There have been many times when it would have been nice to have coverage and be able to make a call BUT it is worth the inconvenience to know that the coastal hills, a unique environment and a true asset for all Californians and visitors to our state, is being protected.

Thank you, Dorah Shuey
582 Swanton Rd
Davenport CA 95017

8/9/2012

Craig, Susan@Coastal

RECEIVED F179

AUG 08 2012

From: Joshua Hart [joshuahart@baymoon.com]
Sent: Wednesday, August 08, 2012 3:30 PM
To: Craig, Susan@Coastal
Subject: Sentinel Op-Ed opposing Verizon and NextG project

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

Hi Susan,

My opinion piece that appeared in the Sentinel was very small and impossible to read in the staff packet you provided to me. Can you make sure the Commissioners see and are able to read my op-ed piece. I've pasted it below.

Thank you,

Josh

Santa Cruz Sentinel, June 2012

Keep Our Wild North Coast Beaches Cell Tower Free

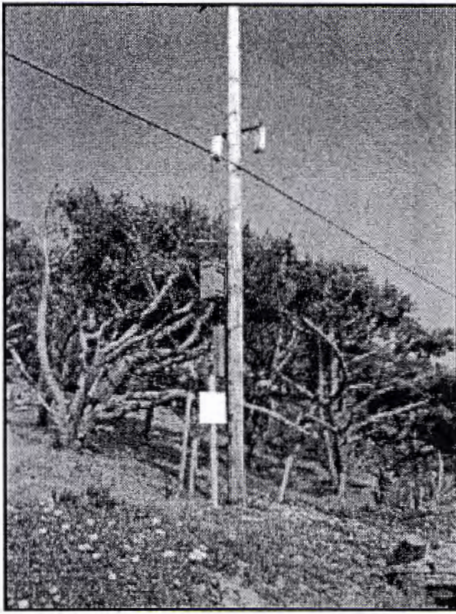
By Joshua Hart MSc

Perhaps a good time to consider the sanity of blanketing our County in microwave radiation- a Class 2B carcinogen according to the World Health Organization(pdf)- is the moment right before the last few wild and free areas of the County are about to be put at risk because of our seemingly insatiable appetite for mobile technology.

In January, the Santa Cruz County Board of Supervisors quietly approved a plan by NextG (now called Crown Castle)- for Verizon Wireless- to install seven cell towers- so called "distributed" or "microcell" antennas along a remote stretch of Highway 1 between Santa Cruz and Waddell Creek in Big Basin State Park. This latest project is part of the "Distributed Antenna System" being promoted by industry and waved through by the CA Public Utilities Commission, an agency adept at bullying local governments into accepting a wireless smart grid that no one wants. "Distributed" means a new cell antenna could appear on the pole right outside your bedroom window- pulsing microwaves 24/7- potentially reducing your property value, not to mention your libido and mental function – and there would be little you could do to prevent it.

Evidence of wireless health damage is mounting. Dr. Poki Namkung, the top Public Health Officer in the County, issued a report in January entitled "Health Risks Associated with Smart Meters." Her report cites research showing harmful effects on sperm, double strand breaks in DNA, and cancer. The dream of high-speed, on-the-go, smart phone connectivity is hitting up against the reality that this dream may only possible at the expense of our health, our environment – and for some so sensitized to even the weakest signals — basic access to the necessities of life.

8/9/2012



This proposed cell site is less than 100 yards from Big Basin State Park and endangered red-legged frogs who inhabit the Waddell Creek Wetlands

For Santa Cruzans, our stewardship of the most pristine natural ecosystems in the County is at stake. The northernmost antenna is proposed to be located only yards from Big Basin State Park, directly adjacent to the Waddell Creek wetlands, home to endangered species such as the Red Legged Frog, Western Pond Turtle, and Coho Salmon. Scientific research indicates a myriad of impacts on plants and animals (not to mention humans) who are exposed. In one study of the effects of cell tower radiation on tadpoles, a 90% mortality rate was observed.^[1] Other studies show links to bee decline.^[2] The Waddell and Scott Creeks are both teeming with life and are conservation success stories. It would be extraordinarily short sighted to put that at risk.

There is a reason that the Telecommunications Act- signed by Pres. Clinton in 1996- prohibits local and state governments from rejecting cell towers because of environmental concerns. It's because those concerns are justified. Such a restriction is of course blatantly illegal and unconstitutional, prohibiting local governments from carrying out the duty they are sworn to uphold- to protect public health and safety- but the telecom firms have well paid lawyers. And consumers are left with unexplained headaches and damaged landscapes.

Fire concerns have also been raised. NextG Corp. is a defendant in a lawsuit filed by residents of Malibu who suffered nearly 15 million in damages from a 2007 wildfire caused by overloaded power poles that blew over and sparking in high winds. The last thing Bonny Doon needs is another wildfire.

Emergency communication is an important issue. AT&T and Sprint have service along Highway 1 in this area- any cell user dialing 911 has access to these. There are also call boxes along remote stretches. Streaming 4G video is not an essential emergency service.

The existing cell panel mock ups at seven locations along the coast give an idea of what is proposed to be made permanent, but only if the California Coastal Commission issues a Coastal Permit in July.

There is still time to stop this ill-conceived project from going forward, if the community mobilizes.

When it comes to the beauty of the North Coast, the safety of our communities, and the survival of entire species, we should all question whether we even want to use cell phones on our wild North Coast beaches.

Joshua Hart MSc
Director, Stop Smart Meters!
<http://stopsmartmeters.org>

Stop Smart Meters! is a grassroots-funded campaign.
Your generous support is critical to our success.
Every little bit helps! <http://stopsmartmeters.org/donate>

F17a

Carl, Dan@Coastal

From: Mark Stone [BDS050@co.santa-cruz.ca.us]
Sent: Wednesday, August 08, 2012 4:38 PM
To: Carl, Dan@Coastal
Subject: FW: please don't permit North Coast celltowers

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/mark

RECEIVED

AUG 08 2012

CALIFORNIA
COASTAL COMMISSION
CENTRAL COAST AREA

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Subject: please don't permit North Coast celltowers

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Thank you, Dorah Shuey
 582 Swanton Rd
 Davenport CA 95017

8/9/2012

