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The Honorable Dianne Feinstein D-CA
331 Hart Senate Office Building
Washington, DC 20510
202-224-3841

**Re: Proposed high-density distribution of Close Proximity
Microwave Radiation Antennas for 4G/5G densification**

Dear Senator Feinstein,

In addition to well-documented damage to the human biological system from pulsed, data-modulated, RadioFrequency Microwave Radiation which causes DNA strand breakage, the many Congressional bills, proposing intensive 4G/5G deployment ('small cell antennas on every block') present severe civil liberties impairments *with resulting indelible national security risks*.

I am by background a trial lawyer, specializing in engineering and scientific proof cases. For seven years I have been focused on the study of DNA breakage from data-modulated, RF Microwave radiation exposures, initially catalyzed to this focus by the premature deaths of four people I knew well from brain cancer. Yet despite the now-widely-shared scientific concerns about medical hazards, this letter will not focus on health risks from Close Proximity Microwave Radiation Antennas ('CPMRA') deployments as now proposed in the 4G/5G densification legislation, nor focus on the massive financial risks to our federal budget by liability transfer from Telecom firms to taxpayers from these Bills, or upon ADA violations, but just the below two points:

- 1) The currently proposed 4G/5G dense deployment would result in personal privacy impairments from ubiquitous surveillance as never previously experienced in the United States, and:
- 2) Due to the ease of inevitable hacking, the 'every block' 4G/5G deployment would allow foreign powers to track the day-to-day details of virtually all human life in the United States, including location and movements of military assets and personnel, thereby with indelible national security impairment.

The current proposed legislation, exemplified by the H. R. 4986 stepping-stone, would take property rights from states and local entities and give those rights to Telecom corporations which can thereafter expand the wattage and type of broadcast involved without any further federal, state, or local control. As a starting point in the analysis of the purported '4G/5G rollout,' Senior staff will discern that *as currently presented to our Congress as a land-grab of State and local property, 5G is not an established engineering accomplishment, but merely an over-hyped 'brand/service.*

- 1- Civil liberties impairments are inherent in all the '4G/5G on every block' Bills.

Everyone reading this has seen digital technology grow at such a rate, and at such an increase in rate that our societal, Constitutional, and moral efforts at regulation have been left far behind the

runaway techno-train. However, while we can all see that the problem exists generally, only by recognition of the technological potential of dense 4G/ 5G deployment that the severe and immediate risks to both civil liberties, and derivatively the risks to our national security can be understood.

It is clear from many sources in the unclassified literature that cellular microwave, Wi-Fi, and other ubiquitous microwave signals can now be used to track activities on our streets, but also to 'see' into any room and map the layout of any dwelling and also to recognize shapes and even basic arm movements in such dwellings.

A few days ago my own simple Internet search for "Wi-Fi interference patterns used to see inside of buildings," brought up 145,000 results in .49 of a second. Two years ago an interesting and thorough article on this subject was published in Atlantic magazine, titled: *All the Ways Your Wi-Fi Router Can Spy on You - It can even be trained to read your lips*. In addition to the hundreds of articles on this subject in the general press, see the U. C. Berkeley Masters Thesis of Joseph Menke, titled *Multimodal Indoor Device Localization*, and see the April 28, 2017 article by Andrian Cho titled *Stray Wi-Fi signals could let spies see inside closed rooms*.

Unlike 'the old days' when TV and radio were 'one-way' data streams, ***today's digital communications modalities are two-way data streams***: For example, your own cell phone is in constant communication with nearby towers. As Masters candidate Menke stated early in his thesis about a similar but not identical technical application, "*only a smart-phone is needed for positioning after database generation. The positioning method presented uses sensors available on most mobile devices and requires no new infrastructure to be placed in the building.*" Yet, while the Menke thesis showed that structure and movement could be perceived with best precision after initial mapping, more recent studies show that the baseline mapping itself is now readily accomplished through direct harvest of interference patterns from two or more microwave sources, such as 4G/5G antennas installed in close proximity and a Smart Meter installed on one's home.

Surveillance potential is inherent in close proximity 4G/5G technology *as proposed*, even without the addition of the readily available off-the-shelf video and microphone add-ons. The surveillance potential inherent in proximate 4G/5G cannot be separated from the technology itself, because the low technological hurdle involved allows systematically harvesting the data from microwave interference patterns.

When massively saturated 4G/5G technology is inevitably joined with commonly available inexpensive video and audio scanning, an inescapable Surveillance State will result. There has never yet been a major communications development that was not used for military and intelligence use and 4G/5G on every block will naturally be so deployed.

If the close proximity 4G/5G Revolution comes to your hometown it will bring along the instant technical capacity for constant surveillance exceeding the efforts, for one example, of the Chinese government in monitoring the Uighur cities. In the 20th Century and since, surveillance states have always been historically associated with extra-judicial enforcement of the dominant narrative, as shown by conduct in the totalitarian regimes of the 20th century, even before the digital age. 'Every block density of 4G/5G will lead to an unprecedented new league of surveillance. a sort of George Jetson Fascism being is inherent in the process.

It is not necessary to re-read the novel 1984 for us to understand the threats to liberty inherent in modern ubiquitous information technology. Contrary to the ***expectations of privacy*** that many residents mistakenly transferred from postal mail to email, we all now understand that email cannot

be relied upon as private; all of us can see that the digital age has diminished individual privacy. The proposed intense 4G/5G on every block would take us into territory so intrusive as to make Orwell's writings look quaint, but beyond those legitimate Constitutional privacy concerns, the same intrusive characteristics of this close proximity microwave antenna menace threatens the security of military, intelligence, and other forms of confidential data.

2- The proposed "Close Proximity 4G/5G Revolution" leads to a National Security Disaster

All observant people have learned that any connected computer operation can be hacked. In this last January of 2018 a Google News headline read: "Japanese Exchange Coincheck Confirms \$420 Million In Xem Stolen, Second Largest In History." Mass hacks have been front page news for the last several years.

Even the reputedly secure servers of massive financial and government systems have been penetrated, with interception of the personal data of hundreds of millions of people. ***Where data is important, there will be hackers.*** With the proposed '4G/5G on every block,' installed and maintained by civilian technicians, there is nothing like NSA-level security. And even with NSA, see the stunning New York Times headline of May 12, 2017: "Hackers Hit Dozens Of Countries Exploiting Stolen NSA Tool."

The data penetrations that have hit our headlines, have involved not only basement bedroom hackers, ***but nations.*** Every major power is engaging in crypto- penetrations. We all saw the effectiveness of the Stuxnet intrusion into the Iranian nuclear program. Many know the Promis saga. There have been massive thefts of US data from persons or entities by both China and North Korea, as well as Russia, currently, by far, the most discussed of all.

With the proposed "Close Proximity 4G/5G Revolution" our nation is contemplating the installation and maintenance of these high tech data systems on public sidewalks by respectable ordinary- -level civilian technicians. There have been so many instances of major hacking of vital mass data sources that a listing could easily run to many dozens of pages. A recent report from the Apple plant in Elk Grove, California, near Sacramento, illustrates the problem: As the Washington Post headlined it of on February 23rd of this year: "An Apple repair center accidentally called 911 out 1600 times in four months - - and no one knows why." Or as The Verge headlined the same basic story: "Apple devices at repair facility have called 911 over 1,500 times." With 4G/5G densely installed everywhere, security leakage tributaries would be on everyday utility poles, nothing approaching a layered and hardened site.

Inherent in the proposed Close Proximity 4G/5G Revolution is the placement of sophisticated observation devices on every block in the country. Anyone who has ever visited the softly lighted and carpet-cubicle video monitoring center of the police HQs of even a moderately-sized but troubled, community will understand that augmentation of Close Proximity 4G/5G with specialized gear will take place, including as driven by the interests of companies which produce such equipment. Massive data collection will inevitably result. There is no realistic question but that such data streams will be hacked. This would result in our loss of the security of military and intelligence data about the movements of personnel, ***including through facial recognition cross-index with already-stolen data from previous mass-data hacks.***

The most obvious problem here would be from direct placement of 4G/5G towers at our military and intelligence bases and immediately adjacent to our installations, but given the capacity that many nations and entities have already demonstrated for scooping biographical data on massive

swaths of our populous, the cross-indexing with already stolen data would allow the identification and scooping of data of predictive value as to asset deployments.

Due to prior and ongoing data mining, many of our peoples' diverse individual characteristics (such as the ID of persons with graduate degrees in engineering a disciplines of military application) are already in adverse hands. These data, when coupled with readily available service, rank, and division information, can be used to effectively triangulate military preparedness in various scenarios and monitoring of travel by personnel from different Divisions. Due to many of these factors, cumulatively, the 4G/5G on every block revolution is a national security disaster in the making.

Conclusion

The currently proposed Bills for dense 4G/5G deployment would result in civil liberty impairments from ubiquitous surveillance to an extent never previously experienced in our country. The data, here outlined, provide actual notice that the dangers from the proposed 4G/5G deployment on 'every block' endanger our national security. Due to the ease of inevitable hacking, 'every block' 4G/ 5G deployment would allow foreign powers to track day-to-day life in the United States, including movements of military assets.

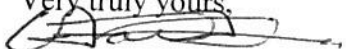
Having left party politics more than four decades ago, I lead a low-profile life in the law, making a living helping people through trial work and not engaged with big national disputes. Yet, hoping it might help to have the data here provided to you taken seriously, I enclose my published pre-invasion Op/Ed in 2003 which warned that invading Iraq would lead to long-term guerilla strife.

Cumulatively, many factors show that going forward with the Telecom-pushed deployment of 4G/5G antennas in close proximity to homes would severely compromise both civil liberties and our national security. For all the above reasons, I urge you to vote 'no,' on HR 4986 and any and all other bills that propose high-density distribution of Close Proximity Microwave Radiation Antennas for 4G/5G densification.

Instead, respectfully, we need to fully leverage the \$400 Billion of American money that has already been collected by the States' Telecommunications Utilities (to upgrade Title II-regulated copper lines to Title II fiber) and to provide incentives for State Utilities and municipal broadband programs to complete the installation of Fiber to the Premises (FTTP), which provide a much safer, more secure and energy-efficient means to offer telephone, video and Internet data services to homes and businesses in America for reasonable rates (\$40-60/month), consistent with the reasonable rates mission of the FCC.

Everyone who has paid even cursory attention to national and regional affairs recognizes that our country needs infrastructure improvement. The completion of fiber optic networks, some of which (in New York State, for example) were near completion when abandoned in favor 5G, is a natural complement to road and bridge and similar improvements, and will provide systems less subject to interdiction by fire, more secure, less dependent on foreign replacement modules, and safer in terms of fire risks from sidewalk generators or sidewalk lithium battery stacks. Beyond even the issue of how we improve our communications infrastructure over time where actually necessary, the proposed 4G/5G Bills are so dangerous to privacy and national security, as well as residents' health, that they should never be allowed into law.

Very truly yours,



Harry V. Lehmann

Viewpoint MARCH 19, 2003

Flag flown in sorrow

By HARRY V. LEHMANN
Special to the Advance

It would be magical thinking for me to believe that words from a small town layer in our weekly Novato Advance could somehow cause greater contemplation in high places prior to our war in Iraq. So I do not write this out of hope that a small voice can affect grand policy.



Harry V. Lehmann

Rather, speaking of nations, my President stated days ago that he wants a vote, so that the record will be clear as to who supports his present policy in this war, and who does not. Here is my vote: I do not support the unilateral invasion of Iraq. If we choose not to respect the wishes of the world community, the result will be a reduction in American stature, and a reduction in the legal weight given to international standards of conduct, including as to warfare, all to the world's loss.

Let us contrast the present situation with the end of Desert Storm in 1991: Perhaps you have heard thoughtful supporters of unilateral war, such as Sen. John Warner (R-Virginia), on the floor of the Senate last week, discussing why our forces did not proceed into Baghdad in 1991. This is an important rhetorical issue, along the lines of "If not then, why now?" Senator Warner joined his voice to those who have stated that we did not proceed to

Baghdad in Desert Storm because to do so would have been to intrude into Iraq beyond our U.N. authority to proceed. It was not a mistake to stop in 1991, Senator Warner and others have said, it was a judgment call which was respectful of international law. Okay, I'll buy that one. But if the assent of the U.N. was essential in 1991, why isn't the assent of the U.N. necessary today?

The Administration's answer to this question is that if the U.N. does not

It is now logically consistent, so this spin goes, for the United States to ignore the same world community which wrote the rules we now allegedly seek to enforce.

agree with the White House, the U.N. is "no longer relevant." Another conservative voice, George F. Will, explained his similar views on ABC television on March 9. After catching the rehearsed ball from George Stephanopolous, Mr. Will described the U.N. not only as a good idea past its time, but perhaps a bad idea to start with. So the pitch now is that if the U.N. does not agree with the White House, the U.N. doesn't matter anymore.

Mr. Will spoke of the economic stagnation which was caused by waiting for war, and contrasted it with the "28 years" of good markets he said had followed our victory at the Battle of Midway. Mr. Will's pro-invasion point was that while waiting for war over time has caused uncertainty, rapid and successful military action, in contrast, has tended to bring us out of economic stagnation. As Mr. Will spoke, in the background the TV screen played elaborate synchronized video images of past glories and events, illustrating his points, with a graph of stock market trends from Midway to the current era. On a "news" program yet. There is so much spin going around these days that you can't see the Top.

Here's the Administration pitch when it boils down to reconciling our conduct in 1991 with our plunge into unilateral invasion now: Back in 1991 we condemned Iraq because they violated that most precious of U.N. ideas, that the territorial integrity of another nation should not be violated, as Iraq had done, by force of arms. We went to technologically sophisticated war in order to restore Kuwait, all based upon this U.N. premise of non-aggression. This ideal, preservation of territorial sovereignty against unilateral violation, was the legal foundation for all of the subsequent U.N. Resolutions concerning Iraq, including 1441.

But, the Administration now argues, despite the United Nations having provided the legal basis for our prior action, and despite that the United Nations sets the rules now violated by

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Letters

Affordable housing

income who find themselves way but much more needs to U.N. to "maintain" it

► FLAG: From A-4

Iraq, it is now logically consistent, so this spin goes, for the United States to ignore the same world community which wrote the rules we now allegedly seek to enforce. I'm just a small town lawyer, but to me there is a gaping inconsistency in this Administration position; on one hand that the U.N. supplies the legality we seek to enforce, and on the other that we can ignore the U.N. when it will not embrace our own tactics for the region. There are good reasons for military actions against the current regime in Iraq:

- While the Administration has not disclosed a full factual case for Saddam's possession of terrible and prohibited weapons, I am willing to believe that there are sources of human intelligence to whom we owe loyalty and silence, and I have no doubt that elaborate, computer-assisted, ground-penetrating radar and its cousins have given us data which we cannot make public due both to the immediate strategic issues and the sensitivity of the hardware.

- If left unchecked, and fed by a glut of funds from the oil beneath his people's land, Saddam will threaten the region for decades if not stopped soon.

- A well funded, scientifically developed totalitarian regime in Iraq is dangerous to issues important to the security of the United States.

- With forces deployed, we have reached a "use it or lose it" state in terms of the effective deployment of our forces.

I could go on, but the five reasons stated here illustrate that the Administration position is not without logical and factual merit. So why then, at this time, do I still say that going forward in prompt unilateralism is a mistake?

the world community, needs logical consistency in its laws. In this instance, we have a logic flaw, which is that we are relying on the U.N. for legal authority in one sentence, and then denigrating it as a source of law in the next. If we go forward in a manner which lacks logical cohesion, we will go forward with interior conflict, and such inconsistency presents many dangers, including as to tactic. Secondly, this situation differs from

Desert Storm, because Saddam's inevitable and intentional intertwine between the Iraqi military forces and the urban and suburban civilian population of Iraq. This problem typically is viewed in terms of a targeting dilemma, but when leadership speaks of ground troops, optimistic assumptions as to the reactions of the armed civilian population may lead to trag-

ic results for us, if those assumptions prove wrong.

Third, a stable northern front is desirable prior to entry, not just for attack, but because of the risk of persistent guerrilla interdiction in the later phase or in withdrawal.

Fourth, keeping in mind 9/11 (the failure to implement the Gore Commission recommendations as to cockpit doors) and the U.S. Cole (failure to

enforce the approaching craft parameter), our outlook has tended to underestimate risks which were outside our fixed-piece perceptual system as to war. In this context, putting Saddam in a position where he has nothing to lose can be expected to cause the unexpected, and this risk will be the most severe whenever there is a grand congregation of U.S.

troops, such as in the last phase of the hunt.

Fifth, we need our allies, particularly if we get into a bad spot, and we can't expect our allies to be there for us tomorrow if we slap them in the face today. In addition, alienation of allies is bad for business. Our position in the world, in the eyes of billions of people, may be tarnished if we act alone, yet polished if we act as a leader of the world community. For these reasons, we should wait, gaining intelligence every day until there is formal international support, and without it, we should not go to war.

How should those of us who are opposed to this war at this time proceed if this war goes forward against our heartfelt beliefs? For me, if it comes to the point that if we have our ground troops in the field in declared engagement, I will fly my American flag and wish them Godspeed, even though, if it does come soon, I will fly my flag in sorrow.

We need our allies, particularly if we get into a bad spot, and we can't expect our allies to be there for us tomorrow if we slap them in the face today.

Memories of the past

About 69 Years Ago!...

Teresa Torassa in 1934, ready for the business day to begin at the Torassa family bakery. Goldpost Jewelers is located there now. the poster on the back wall reads "NRA" (National Recovery Act), a program initiated by FDR to aid the Depression. Teresa's parents Guglielmo and Natalina (Olcese) Torassa left Genoa, Italy for San Francisco in 1915. In Italy and San Francisco Guglielmo worked as a baker. In 1922, the family moved to Novato and eventually became partners with Mr. Firenze, owner of the newly established Novato Bakery. Torassa later bought out his partner, turning the bakery into a family business.

