Testimony in Favor of H5217 - The Rhode Island Clean Air Preservation Act of 2025

By Stephen Dahl, Diane Dr. Kingston RI

Good evening, esteemed Committee members.

My name is Stephen Dahl, and I am here to express my strong support for H5217, the Rhode Island Clean Air Preservation Act of 2025. My advocacy is rooted in personal experience with the adverse health effects of unregulated microwave radiation pollution. To be clear, my testimony is about a fundamental right to a safe and healthy environment, free from involuntary exposure to harmful pollutants.

In Rhode Island, there is currently no monitoring of microwave radiation pollution. Consequently, citizens like myself have taken it upon ourselves to document this pollution. Using a Safe and Sound Pro II meter, which detects microwave radiation pollution, I have documented high levels in various locations, including my home, areas around the University of Rhode Island, and notably near the water tower on Flagg Road. These documented levels far exceed what is required for five bars of service on a phone.

To illustrate, a full five-bar signal on a cellphone for a text or phone call requires just $0.002~\mu\text{W/m}^2$ [microwatt per square

meter]. The readings I have obtained surpass this by over 20.95
million times, indicating an excessive, unnecessary and extreme
level of microwave radiation pollution exposure.

As a result, I experience a range of debilitating symptoms, including arrhythmia, fatigue, headaches, cognitive impairment, muscle spasms, joint pain, insomnia, and memory loss. These are not abstract concerns; they are daily realities for me and many others in our community who may be unaware of the source of their ailments.

Consider this analogy: Imagine a shower in your home that cannot be turned off. Instead of a gentle stream, it delivers water at millions of times the necessary pressure, continuously, 24 hours a day. That would be bad enough but imagine that this is not clean water but contaminated sewage. The individual subjected to this would suffer severe health consequences, and the structure of the house would deteriorate over time.

This scenario mirrors our current situation with microwave radiation pollution. It is omnipresent, relentless, and unregulated. Its invisibility leads to widespread neglect, despite recognition by the telecommunications industry itself that microwave radiation constitutes an environmental pollutant. If this was any other form of contamination, stringent safeguards would be in place. Yet, due to its intangible nature, there is a glaring absence of monitoring, accountability, and protection for Rhode Island residents.

This issue is further compounded by the federal government's longstanding practice of rebranding and implementing environmental policies without adequate state-level oversight and control. For nearly 80 years, federal agencies have engaged in weather modification activities under various guises, often without informing or consulting the states affected. Rhode Island was among the first to raise objections to this overreach. Now, eight years later, 22 states have introduced legislation to prohibit such practices.

In a landmark decision, the U.S. Court of Appeals for the District of Columbia Circuit ruled that the Federal Communications Commission (FCC) failed to provide a reasoned explanation for its determination that its wireless radiation guidelines, established in 1996, adequately protect against all harmful effects of exposure. The court found that the FCC had "completely failed" to address the "substantive evidence of potential environmental harms" on the record, which included science showing serious impacts to birds, bees, trees, and plants.

H5217 is not merely an acknowledgment of microwave radiation pollution; it is a proactive step toward reclaiming our state's ability to protect itself from involuntary exposure to harmful pollution. I urge you to support this bill. The people of Rhode Island have a right to clean air and a safe environment.

Radiofrequency Electromagnetic Microwave Radiation Exposures

We are constantly bombarded with pulsed, data-modulated, Radiofrequency Electromagnetic Microwave Radiation (RF-EMR) exposures due to the proliferation of cellular wireless, radio and television signals. The emergence of densified 4G/5G will exponentially increase these RF-EMR exposures, resulting in scientifically-established melatonin-suppression, immuno-suppression, immediate and direct neurological damages and acceleration of the growth of cancerous tumors. (In the table, below, µW/m² is millionths of a Watt spread over a one-square-meter area and x is a multiplier).

Power Output Scale	Consequences on Human Health (based on thousands of published studies)	μW/m²	
0.0005x	EEG altered in humans, alters brain waves	0.000001	
THE REAL PROPERTY.	FIVE BARS ON CELL PHONE	0.002	
15,000x	Sleep disorders, weakness, fatigue, pain	30	
50,000×	Human sensation	100	
500,000x	Decreased cell growth, humans	1,000	
600,000x	Childhood leukemia	1,200	
1,250,000x	Impaired motor function, reaction time, memory, attention	2,500	
3,750,000x	Altered white blood cells, humans	7,500	
5,000,000×	Headache, dizziness, fatigue, weakness, insomnia, humans	10,000	
15,000,000x	Microwave hearing	30,000	
25,000,000x	Leukemia, skin, melanoma, bladder cancer	50,000	
50,000,000x	Impaired memory, visual reaction time, humans	100,000	
5,000,000,000x	FCC Maximum Permissible RF-EMR Exposure Guidelines, General Pop.	10.000,000	

Conclusion: The measurements above explain why close proximity to the proposed million+ of microwave cell towers for the U.S. would be hazardous to the health of U.S. citizens. We need only 0.002 µW/M² (-85 dBm) of RF microwave radiation for wireless telecommunications service. A locality can, therefore, set a maximum output limit from all frequencies/ antennas from Wireless Telecommunications Facilities (WTFs) in the public rights-of-way or in close proximity to where people live, sleep and heal at 0.1 Watt of Effective Radiated Power (ERP) because that provides 485 dBm signal strength at a ½-mile down the street, with five bars on a cell phone and the capacity needed for everyone to make a call.

A typical WTF in the public rights-of-way outputs Effective Radiated Power at 1,500-7,500 watts ERP, which is between 15,000 and 75,000 times more power than is necessary to make "five-bar" cellular connections.

Thank you.

Evaluate the pollution.

Start cleaning it up.

It's irresponsible to not be monitoring for this type of pollution.

FCC Guideline is not protective. 27 volumes of evidence.

https://ehtrust.org/environmental-health-trust-et-al-v-fcc-keydocuments/

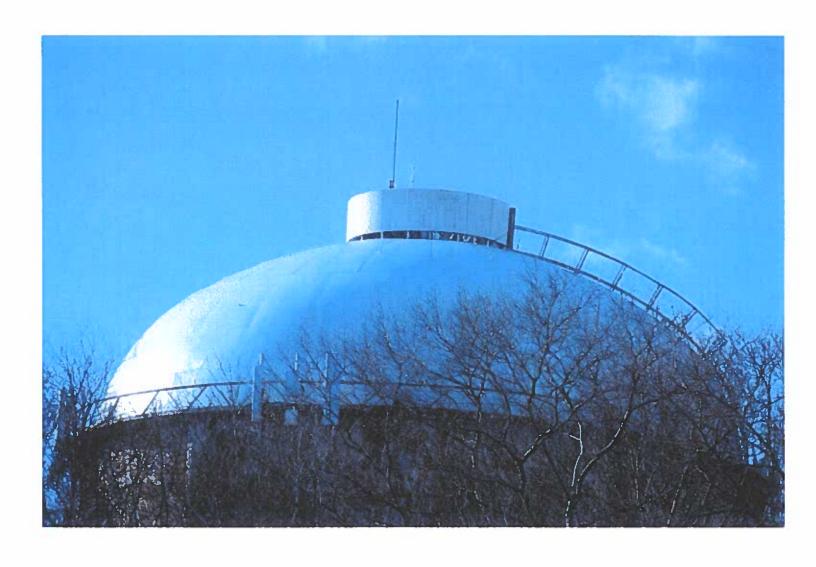
Fact Sheet

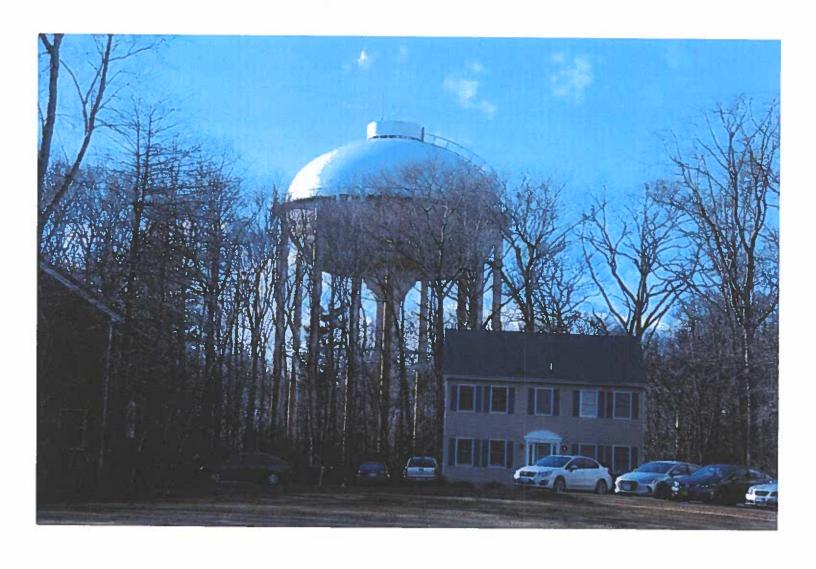
EHT et al. v. FCC Factsheet EHTRUST.org

https://ehtrust.org/in-historic-decision-federal-court-finds-fcc-failed-to-explain-why-it-ignored-scientific-evidence-showing-harm-from-wireless-radiation

The state of New Hampshire studied microwave radiation and made 15 Recommendations, including Recommendation 5: "Signal strength measurements must be collected at all wireless facilities..." (See pages 11-12 of their report.)

https://gc.nh.gov/statstudcomm/committees/1474/reports/5G%20fina 1%20report.pdf









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0175 3:49:18PM. My back yard. 70 peak, max 126. Moderate (orange).

0180 3:53:58PM. Flagg Rd, Kingston, RI. NE Entrance to University of Rhode Island. Intersection of Old North Rd and Flagg Rd. This is just around the corner from my home, where I walked from my home west up 200 feet, then north 400 feet or so up Old North Rd, then faced west to take the picture. Max 685, Avg 30.5, High level (red).

0186 3:56:42PM. Close up of water tower, antennas and panels emitting RF radiation. I was standing on Eldridge Farm Rd, near the dumpster, in the Eldridge Farm neighborhood over which the tower looms, about 175 yards away from the tower. I used the zoom on the camera.

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0219 4:04:44PM. Looking west down Flagg Rd toward URI from the water tower I took this reading. 4000 Peak, 19,6000 Max, 849 Avg. When I was in the Eldrige neighborhood I didn't wat to go right up to their homes as to not invade their privacy or trespass. But this reading gives me a glimpse of how high the levels must be up by their homes. I was standing right to the Flagg Rd side of the tower, maybe 75 yards from the tower.

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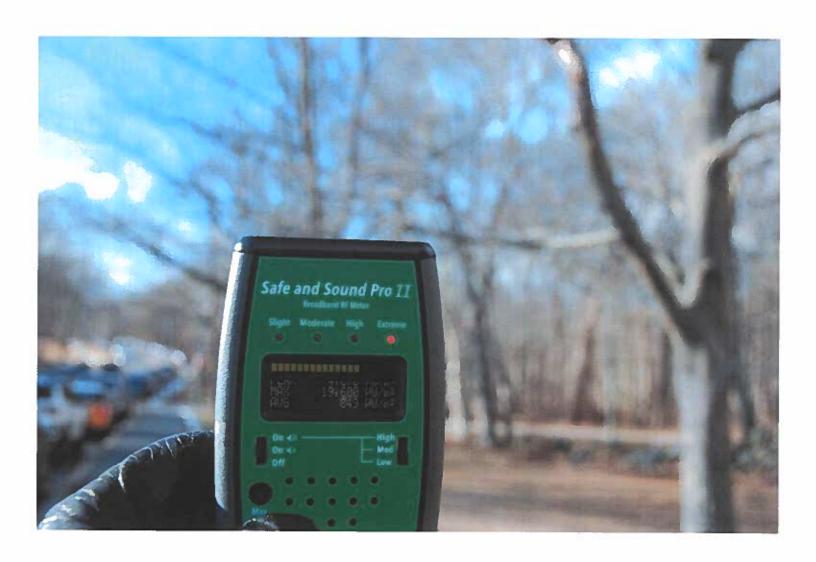
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1192 6-10-24 12:42:12PM, this June 2024 photo shows lower radiation in my home at the dining room table than is now there at present. Green/slight RF levels, Peak 3.99, Max 14.5, Avg 0.423 are good levels. This difference is due to the new panels on the water tower which were added on Wednesday, December 4, 2024 with a gigantic and tall cherry picker by a worker and the cherry picker operator. Later that day I had forgotten it was put up but I didn't feel good, so I got out my Broadband meter and asked my high school student kids if either of them had forgotten to put

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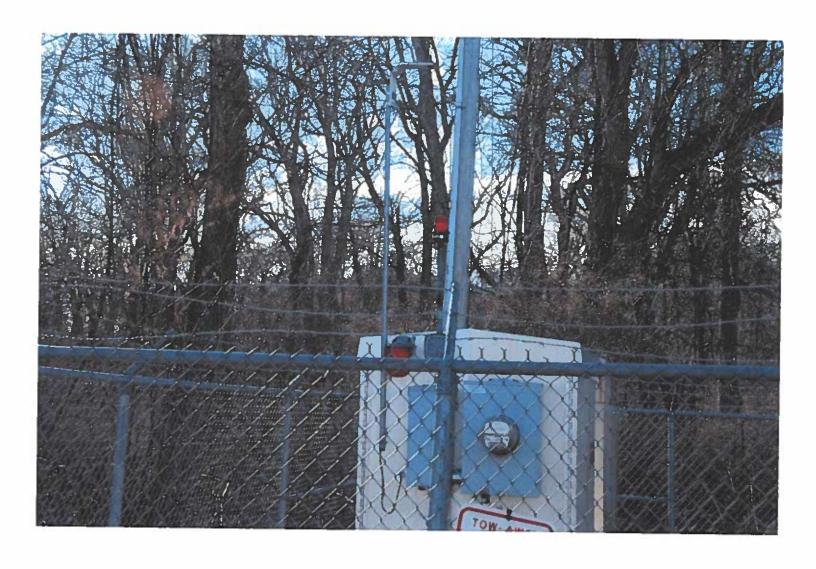
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0262 10:04:40 Close up of meter and antenna for sewer water pump station. I was standing just outside its fence, at the end of the road.

0264 10:05:32AM Antenna and meter for Sewer water pump station, focus on Broadband meter. Peak 108, Max 227, Avg 3.83. Moderate/yellow.

0267 10:05:36AM Antenna and meter for sewer water pump station, focus on Broadband meter. Peak 122, Max 227, Avg 4.9. High radiation, red.

0272 10:05:50AM. Nice photo of meter and antenna, standing just outside of fence like the others.

0273 10:06:00AM Meter and antenna for sewer water pump station. Peak 114, Max 563, Avg 7.10. High radiation, red.

I wanted to show the difference with these next photos between how much radiation was in my home between last summer, before the new flat RF radiation panels were installed on the water tower at Flagg Rd near URI and after.

0281 10:46:50AM Acousticom2 Electrsmog Detector. This is a consumer version Broadband meter which is used by electromagnetically sensitive people to tell how much RF radiation is in an area and fits well into a pocket, making it more handy than the larger models. It uses the electrical measuring system of Volts/meter. It also gives readings in the 200MHz to 8GHz range, like the bigger meter. This one shows levels by my dining room window looking out. 0.1 to 0.3 V/m is in the orange to red (medium to high) radiation category. Compare this meter's reading to the camp readings further below.

0283 10:56:10AM. Levels at dining room table in yellow/moderate range. Peak 23.1, Max 43.1, Avg 2.83. Compare to photo 1192 from June 2024.

1192 6-10-24 12:42:12PM, this June 2024 photo shows lower radiation in my home at the dining room table than is now there at present. Green/slight RF levels, Peak 3.99, Max 14.5, Avg 0.423 are good levels. This difference is due to the new panels on the water tower which were added on Wednesday, December 4, 2024 with a gigantic and tall cherry picker by a worker and the cherry picker operator. Later that day I had forgotten it was put up but I didn't feel good, so I got out my Broadband meter and asked my high school student kids if either of them had forgotten to put

their laptops in airplane mode when coming home from school. (We use non-radiation-emitting ethernet internet connections at home which are safer, faster, and more secure than Wi-Fi, with the additional benefit of using one tenth of the energy, according to an IEEE magazine article. After learning of my electrosensitivity in 2016, I paid National Grid to replace both my electrical and gas meters with non-RF-emitting meters and the water company removed its meter. I pay an additional fee to have the meters read manually each month.) But no, their Wi-Fi wasn't on, it was the new ambient radiation from the tower, invading our home, that I could feel. Among other problems, it is disrupting my sleep and giving me fatigue.

0891 May 5, 2024. 7:17AM. No detectible radiation levels using Acousticom2 Electrosmog Detector at my son's technology-free off-the-grid summer camp in the Green Mountains of Vermont. This wonderful place, in addition to being beautiful, is a joy for people like me and makes me feel energetic and healthy. Great place for hikes, too, right near the Appalachian Trail (Long Trail). Tragically, many forests and other previously wild places are now being poisoned with new infrastructure emitting RF radiation pollution, which has been show to be carcinogenic to laboratory animals and cause myriad other problems including disrupting navigation for birds, bats, bees, and other pollinators. My son loves the camp and it keeps him away from video games for weeks!

SCIENTISTS FOR WIRED TECHNOLOGY

Advocacy based on Scientists' research of the hazards of pulsed, data-modulated, Radiofrequency Microwave Radiation

Radiofrequency Microwave Radiation Exposure Guidelines

Dr. Andrew A. Marino on the Hazards of EMFs and RF Microwave Radiation

andrew a marino biofysicus Hazards of EMFs

Are SAR measurements useful in your research? **More here**

Marino:

In connection with understanding mobile phone fields, none whatsoever. I think they're meaningless with regard to that application.

Why are SAR measurements meaningless?

Dr. Marino:

Several reasons. First you need to understand where SAR came from. I was there when SAR was invented. Richard Phillips, Don Justesen, Saul Michaelson, Herman Schwann, these were men who created SAR, whose mind gave rise to it. And the reason they did was because they were interested in developing microwave ovens and in understanding how to cook meat. And it's useful for understanding how to cook meat. But it has no application whatsoever, that I have ever seen suggested or advanced, for understanding mobile phones. **SAR works for dead muscle. It has just no applicability in my opinion for live brain**.

Why are SAR measurements not applicable to the live brain?

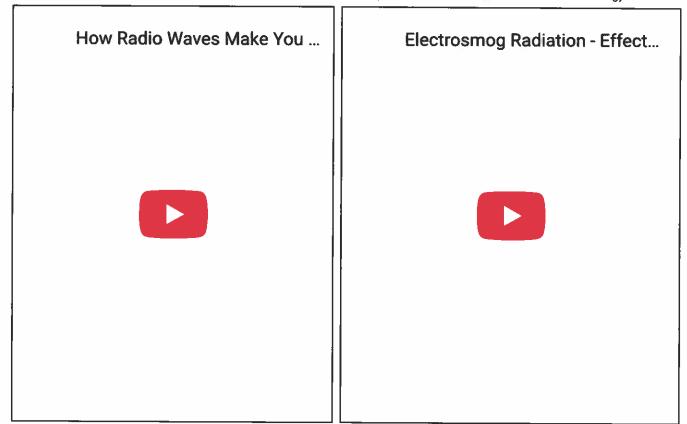
Dr. Marino:

Because the health hazards associated with mobile phone fields have nothing to do with heat. So it makes no sense to say, "I have a really great way of measuring heat" when the measurement of heat is irrelevant to understanding health hazards. Any measurement that you make that has no connection with what you're interested in is just a waste of time. SAR can produce a lot of data and when the calculations of SAR are done they can produce beautiful pictures but the pictures are arbitrary and the measurements are meaningless. It's quite clear that that's the case.

Prof. Trevor Marshall, PhD States the Truth:
"The brain is not acting as a mass being heated, the brain is acting as a radio receiver."

Dr. Trevor Marshall: How Radio Waves
Make You Sicker

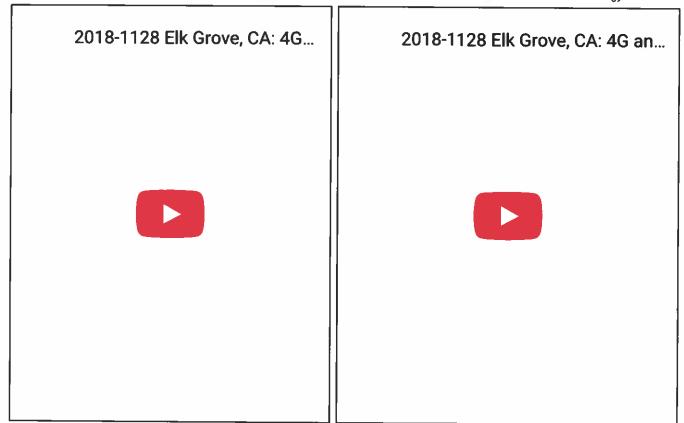
Dr. Trevor Marshall: Electrosmog Radiation
- Effects



Windheim Proves That The Emperor Has No Clothes

Nov 28, 2018: William F. Hammett, Professional Electrical Engineer **2018** in Elk Grove, CA (39:04 to 43:50)

Nov 28, 2018: Eric Windheim, Certified **Electromagnetic Radiation Specialist** Spreads Industry Propaganda on Nov 28, Tells the Truth on Nov 28, 2018 in Elk Grove, CA (3:02:23 to 3:07:40)



Biologically-Based RF Microwave Radiation Exposure Guidelines

Biolnitiative, 2019: "A scientific benchmark of 30 μW/m² for lowest observed effect level for RF microwave radiation is based on mobile phone base station-level studies. Applying a ten-fold reduction to compensate for the lack of long-term exposure (to provide a safety buffer for chronic exposure) or for children as a sensitive subpopulation yields a **3 to 6** μW/m² RF Microwave Radiation exposure guideline"

Similar scientifically-based RF Microwave Radiation Exposure Guidelines are published by the <u>International Institute for Building-Biology & Ecology:</u>

No Hazard	Slight Hazard	Severe Hazard	Extreme Hazard
< 0.1	0.1 μW/m² to 10	10 μW/m² to 1,000	> 1,000
μW/m²	μW/m²	μW/m²	µW/m²

- μW/m² = millionths of a Watt per square meter (a measurement of power flux density)
- Power flux density (PFD) = the amount of electrical power that flows through a unit area: expressed as microWatts (μ W) per square meter (m^2).
- PFD measures only the rate of electrical power, NOT the total electrical power delivered over time, which requires the rate to be multiplied by the time of exposure and then requires reporting the results in a more relevant unit: μW-seconds/m² or μJoules/m²
- Average µW/m² readings, as specified by the FCC, significantly under-report the levels of pulsed, data-modulated, RF microwave radiation exposures for two reasons
- Peak RF microwave radiation exposures meter 100x–1000x higher than average RF microwave radiation for data-carrying, modulated, high-crest signals like Wi-Fi, 4G/LTE and 5G because of the duty cycle, inherent in these RF signals. Inexplicably, the FCC RF microwave radiation exposure guidelines only consider average RF microwave radiation exposures, which is a significant error because living organisms' biology reacts to the sharp changes of RF microwave radiation from zero to peak levels and back again. This is more fully explained here: Palo Alto Whitewashes RF Microwave Radiation Exposure Hazards
- The FCC RF microwave radiation exposure guidelines consider neither the time of
 exposure nor the total electrical power delivered over time, which is utter nonsense
 and scientifically unsound. This is more fully explained here: RF Microwave Radiation
 Counter.

Signal Strength RF Microwave Radiation Exposure Guidelines

dBm (decibel-milliwatts) is an abbreviation for the power ratio in decibels (dB) of the measured power referenced to one milliwatt (1 mW = 1/1,000 of a Watt). It is used in radio, microwave and fiber-optic communication networks as a convenient measure of absolute power because of its capability to express both very large and very small values in a short form. The following data is based on that published in the Cornet ED-85X Manual; the meter's antenna is centered at 2,450 MHz and can meter RF Microwave Radiation from 700 MHz to 6,000 MHz.

dBm	Power Density	Comparison	See Case <u>No. 18-105</u> <i>Mozilla v FCC</i>
0 dBm	580,000 μW/m²	322,000,000x higher	Land of
-5 dBm	180,000 μW/m²	100,000,000x higher	
-10 dBm	58,000 μW/m²		Land of
-15 dBm	18,000 μW/m²	10,000,000x higher	Capacity
-20 dBm	5,800 µW/m²		(No 1996-TCA Preemption)
-25 dBm	1,800 µW/m²	1,000,000x higher	
-30 dBm	580 μW/m²		
-35 dBm	180 μW/m²	100,000x higher	
-40 dBm	58 μW/m²		
-45 dBm	18 μW/m²	10,000x higher	
-50 dBm	5.8 μW/m²		
-55 dBm	1.8 μW/m²	1,000x higher	

dBm	Power Density	Comparison	See Case No. 18-105 Mozilla v FCC
-60 dBm	0.58 µW/m²		
-65 dBm	0.18 μW/m²	100x higher	
-70 dBm	.058 μW/m²		
-75 dBm	.018 μW/m²	10x higher	
-80 dBm	.0058 μW/m²		
-85 dBm	0.0018 μW/m²	5 Bars on a cell phone	
-90 dBm	0.00058 μW/m²		
-95 dBm	0.00018 μW/m²	1/10 lower	
-100 dBm	0.000058 μW/m²		Land of Coverage
-105 dBm	0.000018 μW/m²	1/100 lower	(1996-TCA Premption)
110 dBm	0.0000058 μW/m²		
115 IBm	0.0000018 μW/m²	1/1,000 lower	
120 dBm	0.0000058 μW/m²	2 H	
125 Bm	0.00000018 μW/m²	1/10,000 lower	

Conclusion: 0.002 μW/m² (-85 dBm) is all the RF microwave radiation that is needed for strong cellular service in a residential neighborhood. A locality can set a maximum power output limit from all frequencies/antennas from a WTF in the public rights-of-way at 0.1 Watt of Effective Radiated Power (ERP) because that provides -85 dBm signal strength at a ½-mile down the street, with five bars on a cell phone and everyone can make a call.

- 0.002 μ W/m² is 5 billion (5,000,000,000) times lower than the scientifically-unsound, FCC RF microwave radiation maximum public exposure guideline of 10,000,000 μ W/m².
- 0.002 µW/m² is still 2 billion (2,000,000,000) times higher than the <u>PicoWatt</u> (0.00000000001 Watt) electrical rates of power that human cell membranes use in regulating many key biological functions.

The simple math, above, clearly explains why Close Proximity Microwave Radiation Antennas (CPMRA) are hazardous and should not be allowed in public rights-of-way in residential zones.

Typical Signal Strengths

SIGNAL STRENGTH	PICETTENL	11	FAR	POOR	DEAD ZONE
3G/1x	•70am	-71 to -85dBm	-86 to -100d8m	-101 to -109dBm	-110stam
4G/LTE	-90a8⊕	91 to 105 time	-106 to -110ette	-111 to -119atim	120 _{08m}

RF-EMR-Exposures-v5

Download

From BioInitiative RF Color Charts

Radiofrequency Electromagnetic Microwave Radiation Exposures

We are constantly bemberded with pulsed, data-modulated, Balluthrequency Darkronagents (Acronage Rudiction (IF LNR) exposures due to the politication of college senterial, cadio and between signals. The enverages of detailed dis/So will exponentially number bease IF (MR exposurementing in sentencial) exceptional evidence in enverage as sentencial, and exceptional evidence in enverage as sentencial, and exceptional exception of exception of conception of conception of conception of conception of exception of exposition of exception o

Power Output Scale	Consequences on Human Health (thread on thousands of published physics)	p#W/m*
0.0005a	UG-direct at humans, alters heals wares	0.000001
1	FIVE BARS ON CELL PHONE	8,002
15.000m	Simp disorders, weakness, fatigue, page	lo.
\$4,000-	Human sensation	100
500,000s	Decreesed cell growth; humans	1,000
600.000m	Childhood leykemia	1,200
1,250,000u	Impaired motor function, mention time, mensory, attention	2.500
1,750.000m	Altered white blood cells, humans	7,500
5,000,000k	Handactor distance, fatigue sendment, inspinent, humans	10 000
15,000,000m	Microware fearing	10.000
25,000,000m	Londomes, skirt, melanoma blacklet cancer	50 000
\$4,000,000s	Impared memory, visual reaction time hymens	190 000
5,000,000,000H	FCC Managem Permissiphi Rd. LEAR Exposure Guardiffree. General Pres.	so one one

Conclusion: The relevanments above replan why dates precisionly to the proposed millions of microwave cell towers for the U.S. model by hazardors to the health of U.S. octures. We need only 4.0002 with 60° 1.45 dates) of 16° microwave substants for we elses selections under A bouldy can therefore use a mandation or external members filmed from all his quadratic elements from Whethers Educations access substants of VIII is at the public replaced only or or deep presents to where program has a large and head of \$1° West of Effective Statistical Power (60°) tocks and their procedure \$10° dates and access to the procedure of the procedure of the control of the U.S. or the procedure of the procedure

is between 15,000 and 75,000 times more power than is necessary to make "five-bar" cellular connections.

CELL PHONE FREQUENCIES BY PROVIDER (X)



USA	36	4G LTE
verizon wireless	850/1900 MHz (CDMA)	700 MHz. Band 13 1900 MHz. Band 2 1700/2100 MHz. Band 4
Sprint	800/1900 MHz (CDMA)	800 MHz. Band 26 1900 MHz. Band 25
at&t	850/1900 MHz (GSM)	700 MHz. Band 17 850 MHz. Band 4 1700/2100 MHz. Band 4 1900 MHz. Band 2
T ··Mobile·	1700/2100 MHz (AWS) 1900 MHz	700 MHz, Band 12 1900 MHz, Band 2 1700/2100 MHz, Band 4
boost	800/1900 MHz (CDMA)	800 MHz, Band 26 1900 MHz, Band 25
metroPCS.	1700/2100 MHz (GSM)	700 MHz, Band 12 1700/2100 MHz, Band 4

47 CFR 2.1091 – Radiofrequency radiation exposure evaluation: mobile devices. § 2.1091

- (d) The limits to be used for evaluation are specified in §1.1310 of this chapter. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.
- (1) For purposes of analyzing mobile transmitting devices under the occupational/controlled criteria specified in § 1.1310 of this chapter, **time-averaging** provisions of the guidelines may be used in conjunction with typical maximum duty factors to determine maximum likely exposure levels.
- (2) Time-averaging provisions may not be used in determining typical exposure levels for devices intended for use by consumers in general population/uncontrolled environments as defined in § 1.1310 of this chapter. However, "source-based" time-averaging based on an inherent property or duty-cycle of a device is allowed. An example of this is the determination of exposure from a device that uses digital technology such as a time-division multiple-access (TDMA) scheme for transmission of a signal. In general, maximum average power levels must be used to determine compliance.

FCC RF-EMR Exposure Guideline Differences Among 4G/5G Wavelengths/Frequencies

Year	Year Organization Wavelengths Frequencies Velocity Density Power Description							
Contractor	1000000	(inches)	(MHz)	(mph)	(μW/m²)			
1996	FCC	22.6	600	671,000,000	4,000,000	MPE for general population/uncontrolled exposure (time-averaged)		
1996	FCC	19.4	700	671,000,000	4,666,667	MPE for general population/uncontrolled exposure (time-averaged)		

Year	Organization	Wavelengths	Frequencies	Velocity	Power Density	Description
1996	FCC	17.0	800	671,000,000	5,333,333	MPE for general population/uncontrolled exposure (time-averaged)
1996	FCC	15.1	900	671,000,000	6,000,000	MPE for general population/uncontrolled exposure (time-averaged)
1996	FCC	13.5	1,000	671,000,000	6,666,667	MPE for general population/uncontrolled exposure (time-averaged)
1996	FCC	12.3	1,100	671,000,000	7,333,333	MPE for general population/uncontrolled exposure (time-averaged)
1996	FCC	11.3	1,200	671,000,000	8,000,000	MPE for general population/uncontrolled exposure (time-averaged)
1996	FCC	10.4	1,300	671,000,000	8,666,667	MPE for general population/uncontrolled exposure (time-averaged)
1996	FCC	9.6	1,400	671,000,000	9,333,333	MPE for general population/uncontrolled exposure (time-averaged)
1996	FCC	9.0	1,500	671,000,000	10,000,000	MPE for general population/uncontrolled exposure (time-averaged)
1996	<u>FCC</u>	8.5 to 0.1	1,600 to 100,000	671,000,000	10,000,000	MPE for general population/uncontrolled exposure (time-averaged)

Year	Organization	Wavelength	s Frequencie	s Velocity	Power Density	Description
2012	BioIntiative	22.6 to 9.0	600 to 1,500	671,000,000	3 to 6	MPE for general population to pulsed, data-modulated RF microwave radation (peak)
2012	<u>BioIntiative</u>	8.5 to 0.1	1,600 to 100,000	671,000,000	3 to 6	MPE for general population to pulsed, data-modulated RF microwave radation (peak)

Legend

- FCC = Federal Communications Commission
- MHz = MegaHertz or thousands of times per second
- mph = miles per hour
- MPE = Maximum Public Exposure
- μW/m² = a rate of exposure for an unlimited amount of time (not total exposure in a set period of time) in millionths of a Watt (or microWatts) spread over a square meter

Sources:

- 47 CFR 1.1310 Radiofrequency Microwave Radiation Exposure Limits https://www.law.cornell.edu/cfr/text/47/1.1310
- FCC OET Bulletin 65 FCC Guidelines for Human Exposure to Radiofrequency Microwave Radiation
 https://transition.fcc.gov/bureaus/oet/info/documents/bulletins/oet65/oet65.pdf
- BioIntiative Guidelines for Human Exposure to Radiofrequency Microwave Radiation http://www.bioinitiative.org/rf-color-charts
- Actual Field Radiofrequency Microwave Radiation Exposure Measurements, that compare Peak RMR and Average RMR http://responsibleipad.com/urgent.html
- Actual Field Radiofrequency Microwave Radiation Exposure Measurements, that compare Peak RMR and Average RMR http://responsibleipad.com/truth.html#truth

FCC Guidelines for Human Exposure to Radiofrequency Microwave Radiation ('RMR') Reported as Average RMR

Frequency range (MHz)		Magnetic field strength (A/m)	Average Power density (μW/m²)	Averaging time (minutes)
0.30-1.34	614	1.63	(1,000,000,000)*	30
1.34-30.00	824/f	2.19/f	(1,800,000,000/f ²)*	30
1.3			1,000,000,000	30
1.5			800,000,000	30
3.0			200,000,000	30
10.0			18,000,000	30
15.0			8,000,000	30
25.0			2,880,000	30
30-300	27.5	0.073	2,000,000	30
300-1,500			(f/1500)*10 million	30
600			4,000,000	30
700			4,670,000	30
800			5,330,000	30
900			6,000,000	30
1,000			6,670,000	30
1,250			8,330,000	30
1,500- 100,000			10,000,000	30

^{*}Plane-wave equivalent power density; f = frequency in MHz;

FCC Guidelines for Human Exposure to Radiofrequency Microwave Radiation Translated to Peak RMR, which is at least 10x to 100x higher than Average RMR

Frequency range (MHz)	Magnetic field strength (A/m)	Average Power density (μW/m²)	Averaging time (minutes)
0.30-1.34		(1,000,000,000) x 100*	30
1.34-30.00		(1,800,000,000/f²) x 100*	30
1.3		100,000,000,000	30
1.5		80,000,000,000	30
3.0		20,000,000,000	30
10.0		1,800,000,000	30
15.0		800,000,000	30
25.0		288,000,000	30
30-300		200,000,000	30
300-1,500		(f/1500)* 1 billion	30
600		400,000,000	30
700		467,000,000	30
800		533,000,000	30
900		600,000,000	30
1,000		667,000,000	30
1,250		833,000,000	30
1,500- 100,000		1,000,000,000	30

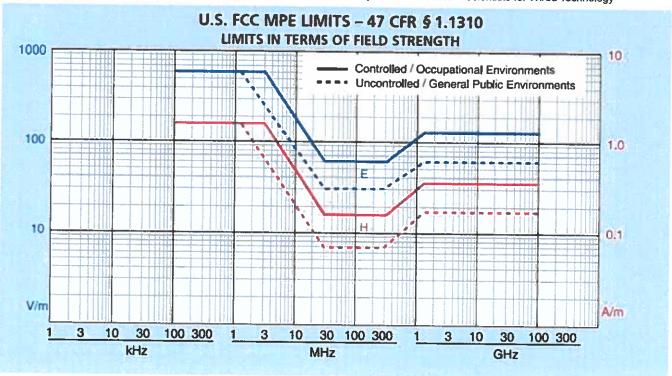
^{*}Plane-wave equivalent power density; f = frequency in MHz; $1\,\mu\text{W/m}^2$ average RFR = $100\,\mu\text{W/m}^2$ peak RFR

BioIntiative Guidelines for Human Exposure to Radiofrequency Microwave Radiation Reported as Peak RMR

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (µW/m²)	Averaging time (minutes)
0.30-1.34			5*	N/A

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (μW/m²)	Averaging time (minutes)
1.34-30.00			5	N/A
1.3			5	N/A
1.5			5	N/A
3.0			5	N/A
10.0			5	N/A
15.0			5	N/A
25.0			5	N/A
30-300			5	N/A
300-1,500			5	N/A
600			5	N/A
700			5	N/A
800			5	N/A
900			5	N/A
1,000			5	N/A
1,250			5	N/A
1,500- 100,000			5	N/A

^{*}Recommendation is 3 to 6 μ W/m²; mid-point is 4.5 μ W/m², which rounds up to **5 \muW/m²**; f = frequency in MHz;



Link to the 1986 National Commission on Radiation Protection document (NCRP Report No. 86, Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields), NCRP-86.pdf, used by the FCC to set its pulsed, data-modulated, Radio-frequency Electromagnetic Microwave Radiation (RF-EMR) exposure guideline discussed negative health consequences at many different power levels of RF-EMR exposures — at power levels high enough to heat living tissue and at power levels much, much lower than that.