



J. Michael Clára
Salt Lake City School Board
District Two

801-521-3223 • donMiguelSLC@gmail.com
974 S. 1400 W. • Salt Lake City • Utah • USA

25 January 2015

Delivered Via Electronic Mail

Mr. Dale Keller – Environmental Health
Salt Lake County Health Department
788 East Woodoak Lane
Murray, Utah 84107

Re: Request for Inspection and Assistance



Dear Mr. Keller,

On behalf of the residents living within the District 2 boundaries of the Salt Lake City School District and in my capacity as an elected official,¹ I am requesting your assistance because I have reason to believe that the Salt Lake City School District is in violation of the following Utah State Office of Education, Rules:

R392-200-2(2): *The governing body of the school, shall ensure that the school building and grounds are constructed, operated, and maintained in accordance with this rule.*

R392-200-5 School Grounds

(2) Mechanical equipment, electrical transmission lines, poles, transformer boxes, and other electrical equipment shall be located or protected with a barrier to prevent an electrical or other safety hazard. & (8) Playgrounds must be located in areas that maximize safety.

The Salt Lake City School District is poised to allow **Verizon Wireless** to install a cell tower with multiple antennas on the roof of a school in my neighborhood.² The school administration bypassed the notification and approval process of the local School Community Council and the Board of Education. I was only made aware of a cell tower coming into my community because of the vigilance of a couple of parents who noticed it listed on the Salt Lake City Planning Commission agenda.

As a result of this revelation, I asked the Superintendent for a list of other schools in the Salt Lake City School District that currently have cell towers on their property. The Superintendent provided me with a list showing that ten schools in the district are the so called “host” sites for cell towers.³

¹ § 53A-3-401(5), Utah Code: Notwithstanding a local school board's status as a body corporate, an elected member of a local school board serves and represents the residents of the local school board member's district, and that service and representation may not be restricted or impaired by the local school board member's membership on, or obligations to, the local school board.

² Salt Lake City Planning Division Staff Report PLNPCM 2014-00643 Verizon Wireless Rooftop Antennas and Electrical Equipment 1430 W. Andrew Avenue (Glendale Middle School).

³ Salt Lake City School District, Cell Site Agreement Information 2014-2015 provided by Superintendent Withers on 01/22/2015

“Local school boards are the bedrock of our society, yet they are invisible to the public”

Señor Florez –Deseret News

As part of my process of investigating and researching the dangers that cell towers pose to our students, I went to **Nibley Park Elementary** located at 2785 S. 800 E. and **Uintah Elementary** located at 1571 E. 1300 S. (both in Salt Lake City) and measured the RF radiation levels in the play grounds of both schools. I utilized an HF35C Meter ⁴ and it registered RF radiation in excess of 2,000 $\mu\text{W}/\text{m}^2$ which exceeded the limits of the meter I was using.

As you will note in the attached video, readings in excess of 2,000 microwatts per square meter occurred whenever I pointed the meter in the direction of the cell antennas perched on top of the schools. Based on my observation, I concluded they were the source of the RF radiation that was registering off the scale.

My measurements far exceed the standards set by the BioInitiative 2012 document. ⁵ I call upon the expertise of your office, as I am not familiar with the application of time, distance, exposure etc...in determining what level of electromagnetic radiation exposure is acceptable for children by the standards utilized by your office. I can say, as a policymaker, the levels I have witnesses are much too for my comfort.

I am deeply troubled that the school administration allowed the installation of these cell towers without any effort on their part to evaluate the risks these towers pose to our students, faculty and surrounding residents.

There doesn't appear to be any type of monitoring to ensure that the towers do indeed meet FCC guidelines of RF radiation exposure. Who is monitoring the accumulative effect of three different companies installing cell towers on the roof of **Uintah Elementary**?

In my opinion, one tower is bad enough. It would seem to me that the students and faculty are being exposed to an inordinate amount of radiation on a daily basis, inside and outside of the building due to the accumulative exposure from numerous antennas perched over their heads.

During my tour of schools that have cell towers on their roofs, I noted a series of signs that are blue, yellow, orange and red. Each of these signs displayed cautions and warnings about the "radio frequency fields" exceeding the FCC rules for human exposure.

I have to ask myself, who in their right mind would think that this type of equipment is okay to be installed in the midst of children?

I also noted a recent letter by the U.S. Department of Interior⁶, expressing concern that cell towers pose a danger to migratory birds.

The Interior Department accused the Federal government of employing outdated radiation standards set by the Federal Communications Commission (FCC), a Federal agency with no expertise in health. The standards are no longer applicable because they control only for overheating and do not protect organisms from the adverse effects of exposure to the low-intensity radiation produced by cell towers: *"the electromagnetic radiation standards used by the Federal Communications Commission (FCC) continue to be based on thermal heating, a criterion now nearly 30 years out of date and inapplicable today."*

⁴ Gigahertz Solutions High-Frequency Analyzers

⁵ BioInitiative 2012 –A Rational for Biologically-based Exposure Standards for Low-Intensity Electromagnetic Radiation pg. 101-107.

⁶ Mr. Willie R. Taylor, Director, Office of Environmental Policy and Compliance- U.S. Department of Interior –Letter, addressed to U.S. Department of Commerce

It boggles my mind to think that the FCC requires warning signage to be placed near the cell towers stating that the antennas on the tower do indeed exceed (outdated) radiation exposure standards. Yet, the school administration did not give it a second thought to install not one, but many towers at one school.

I find it equally perplexing that one agency in the federal government inexplicitly states that

*“Impacts from nonionizing electromagnetic radiation emitted by these structures...[has caused] nest site abandonment, plumage deterioration, locomotion problems, reduced survivorship and death”.*⁷

In contrast, our board president informed us that the Business Administrator, Janet Roberts has determined that it is safe for children to be in and around all of these cell towers. At the rate that Uintah Elementary is accumulating cell towers, I fear that the school is going to be morphed into some kind of cell tower Disney land.


I am outraged to think that a cell tower is poised to be installed in the heart of my community. My neighbors elected me to ensure a bright future for their children. I instead feel that I have failed them because I have allowed the school bureaucracy to use the school system for a purpose that has nothing to do with education and everything to do with potentially destroying the future of our children’s health. I am saddened to think of the dangers the school district has already exposed students, faculty and resident at the ten school “hosting” existing cell towers.

It is my hope that you can use the full weight of your office to evaluate the threat of RF radiation exposure to the students and faculty to, at the two Elementary schools mentioned above.

I believe that you have the authority and jurisdiction to address these concerns: **R392-200-2(3)**:

However, if the ...the Local Health Officer determines that conditions in any school are a threat to the health of persons using the school, the ... Local Health Officer may order correction of any condition that impairs or endangers the health or life of those attending schools.

Shalom,

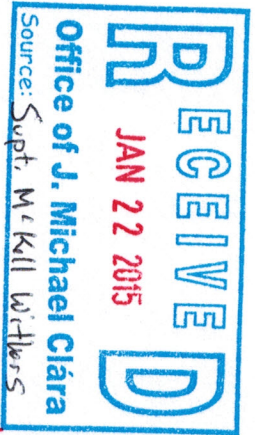

J. Michael Clára
Board Member, District 2

⁷ Balmore, A. and O. Hallberg –The Urban Decline of the House Sparrow /Link with Electromagnetic Radiation. Biology and Medicine 26:141-151



Salt Lake City School District
 Cell Site Agreement Information
 2014-2015

Notes by JMC of
 Uintah
 Clearwire
 T-Mobile
 Verizon
 Nibley Park
 Cricket
 Verizon



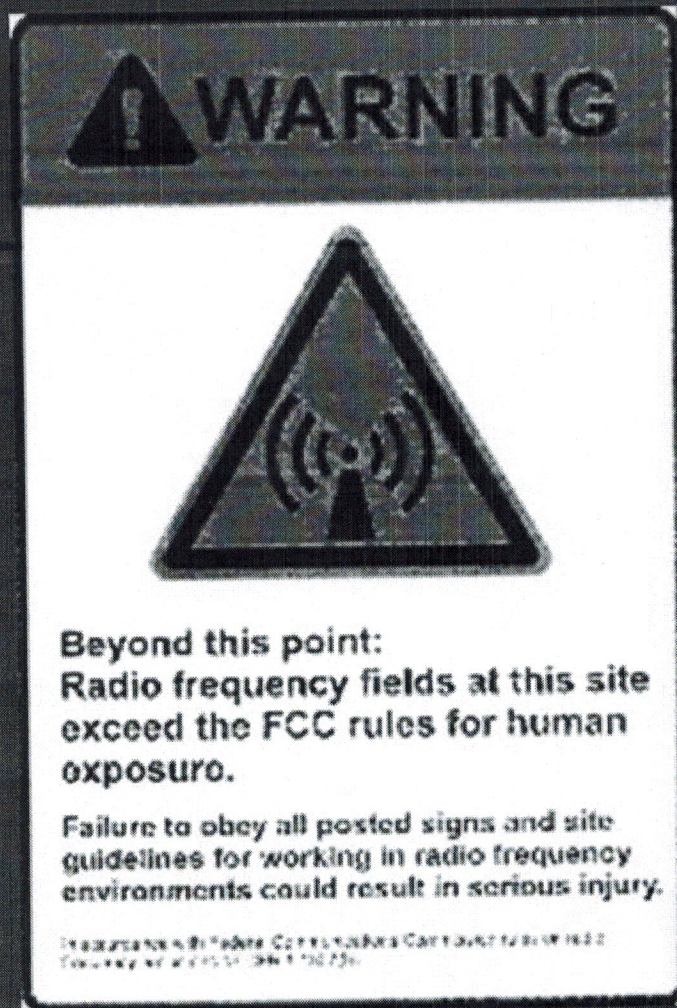
Addresses written by JMC

Company	Site	Effective Date	Term	Extension Terms	Original Rent Amount	Utility Charge	Current Rental Amount	Pricing Changes
AT&T	Hawthorne	8/14/2006	5 Years	Four 5 year extensions	\$1,000.00/Month	-	\$1,266.76/Month	3% yearly 1675 S. 700E
AT&T	Lincoln	8/14/2006	5 Years	Four 5 year extensions	\$1,000.00/Month	-	\$1,266.76/Month	3% yearly 1090 S. Roberta St.
Clearwire	East High	4/21/2010	5 Years	Four 5 year extensions	\$1,000.00/Month	100.00	\$1,238.61/Month	3% yearly 840 S. 1500E.
Clearwire	Uintah	4/21/2010	5 Years	Two 5 year extensions	\$1,000.00/Month	100.00	\$1,238.61/Month	3% yearly 1571E. 1500S.
Cricket	Nibley Park	6/1/2009	5 Years	Five 5 year extensions	\$1,500.00/Month	-	\$1,738.90/Month	3% yearly 3785 S. 800E.
T-Mobile	Clayton M.S	7/10/2006	5 Years	Five 5 year extensions	\$1,000.00/Month	-	\$1,020.00/Month	2% per each 5 year extension 1470 S. 1900E.
T-Mobile	Dilworth	7/10/2006	5 Years	Five 5 year extensions	\$12,000.00/Year	-	\$13,919.36/Year	2% yearly 1953 S. 2100E.
T-Mobile	Indian Hills	5/25/2005	5 Years	Five 5 year extensions	\$1,000.00/Month	100.00	\$1,122.00/Month	2% per each 5 year extension 2496 St. Mary's Dr.
T-Mobile	Uintah	7/10/2006	5 Years	Five 5 year extensions	\$12,000.00/Year	-	\$13,925.54/Yearly	2% yearly See Above
Verizon	Hillside	3/31/2011	5 Years	Four 5 year extensions, additional six 5 year	\$1,000.00/Month	as used	\$1,000.00/Month	10% per 5 year extension 1825 Nevada St.
Verizon	Horzonte	11/1/2007	5 Years	Four 5 year extensions, additional two 5 year	\$1,000.00/Month	\$600/Month if used	\$1,150.00/Month	15% per each five year extension 938 S. Sugarwood Ct.
Verizon	Nibley Park	8/31/2007	5 Years	Four 5 year extensions, additional five 5 year	\$1,000.00/Month	-	\$1,150.00/Month	15% per each each five year extension See Above
Verizon	Uintah	10/1/1999	5 Years	Seven 5 year extensions	\$1,000.00/Month	-	\$1,210.00/Month	10% per 5 year extension See Above

Notes written in by McKell Withers Supt. of Schools

1/22/15
 Cell Site Revenue Distribution: (10 sites / 13 leases)
 10% of site, 80% distributed to all schools as part of base program (over \$4,000.00 per year)
 → AVERAGE OF \$2,903.00 per site per year (where equipment is located)

15,722.05 = 188,664.60
 (Monthly) (Annually)



This sign is displayed
at Vintah Elementary
can clearly be seen
from ground level

Reported Biological Effects from Radiofrequency Radiation at Low-Intensity Exposure (Cell Tower, Wi-Fi, Wireless Laptop and 'Smart' Meter RF Intensities)

Power Density (Microwatts/centimeter ² - uW/cm ²)	Reference
As low as (10 ⁻¹³) or 100 femtowatts/cm ²	Super-low intensity RFR effects at MW resonant frequencies resulted in changes in genes; problems with chromatin conformation (DNA) Belyaev, 1997
5 picowatts/cm ² (10 ⁻¹²)	Changed growth rates in yeast cells Grundler, 1992
0.1 nanowatt/cm ² (10 ⁻¹⁰) or 100 picowatts/cm ²	Super-low intensity RFR effects at MW resonant frequencies resulted in changes in genes; problems with chromatin condensation (DNA) intensities comparable to base stations Belyaev, 1997
0.00034 uW/cm ²	Chronic exposure to mobile phone pulsed RF significantly reduced sperm count, Behari, 2006
0.0005 uW/cm ²	RFR decreased cell proliferation at 960 MHz GSM 217 Hz for 30-min exposure Velizarov, 1999
0.0006 - 0.0128 uW/cm ²	Fatigue, depressive tendency, sleeping disorders, concentration difficulties, cardio-vascular problems reported with exposure to GSM 900/1800 MHz cell phone signal at base station level exposures. Oberfeld, 2004
0.0009 uW/cm ²	RFR induced 10%-40% increase in DNA synthesis in glioma cells (brain) Stagg, 1997
0.003 - 0.02 uW/cm ²	In children and adolescents (8-17 yrs) short-term exposure caused headache, irritation, concentration difficulties in school. Heinrich, 2010
0.003 to 0.05 uW/cm ²	In children and adolescents (8-17 yrs) short-term exposure caused conduct problems in school (behavioral problems) Thomas, 2010
0.005 uW/cm ²	In adults (30-60 yrs) chronic exposure caused sleep disturbances, (but not significantly increased across the entire population) Mohler, 2010
0.005 - 0.04 uW/cm ²	Adults exposed to short-term cell phone radiation reported headaches, concentration difficulties (differences not significant, but elevated) Thomas, 2008
0.006 - 0.01 uW/cm ²	Chronic exposure to base station RF (whole-body) in humans showed increased stress hormones; dopamine levels substantially decreased; higher levels of adrenaline and nor-adrenaline; dose-response seen; produced chronic physiological stress in cells even after 1.5 years. Buchner, 2012
0.01 - 0.11 uW/cm ²	RFR from cell towers caused fatigue, headaches, sleeping problems Navarro, 2003

Stress proteins, HSP, disrupted immune function	Brain tumors and blood-brain barrier
Reproduction/fertility effects	Sleep, neuron firing rate, EEG, memory, learning, behavior
Oxidative damage/ROS/DNA damage/DNA repair failure	Cancer (other than brain), cell proliferation
Disrupted calcium metabolism	Cardiac, heart muscle, blood-pressure, vascular effects