

From: Annemarie <aweibel@mcn.org>
To: <pbscommissions@mendocinocounty.org>, Mark Cliser <cliserm@mendocinocoun...
Date: 6/3/2020 4:53 PM
Subject: public comment U_2019-0011 (Nixon)

Dear Planning Commissioners,

PUTTING THE EARTH INSIDE A HIGH-SPEED COMPUTER

Wireless communication facilities will shortly be unnecessary as satellites will serve everyone regardless of available towers or not and regardless if we want for this to happen or not.

These satellites are for 5G, the Internet of Things, and to provide high speed Internet to every square inch of the Earth. Because data travels faster in space than in fiber, all cell towers will transmit their signals to satellites, to be routed through space to their destinations.

They will use phased arrays, beam-forming technologies, and millimeter waves with frequencies from 10 GHz to 80 GHz, just like 5G antennas on earth.

The Earth's electromagnetic envelope—the magnetosphere—will be massively polluted. Millions of pulsed, modulated digital signals covering 80 GHz of spectrum will be emitted day and night into the magnetosphere by tens of thousands of satellites, each emitting multiple laser-like beams directed at the surface of the Earth. This will have several kinds of effects: (a) the direct radiation arriving at the ground; (b) pollution of the global electrical circuit; and (c) alteration of the magnetosphere itself.

ON MAY 26, SPACEX FILED an application with the Federal Communications Commission for 30,000 “next-generation” (“Gen2”) satellites. They will orbit at between 328 km (203 miles) and 614 km (380 miles) in altitude. They will use frequencies from 10.7 GHz to 86 GHz. They will aim focused beams that will cover the Earth in a mosaic of overlapping cells, each cell being about 8 kilometers in diameter.

The databases filed with the FCC by SpaceX indicate that 40,700 1-MHz channels are available to each satellite, and that about a minimum of 7.8125 MHz of spectrum is needed for each user. Which means the Gen2 Starlink satellites could be capable of serving up to 150 million Internet users at the same time.

This is not a good thing.

The full extent to which the 420 satellites are being tested is unknown to me. They are communicating with ten earth stations located in the United States. They are being tested by the U.S. Air Force for use by military aircraft. SpaceX intends to keep launching 60 satellites at a time every couple of weeks. The next launch is scheduled for tonight, June 3, at 9:25 p.m. Eastern Daylight Time. SpaceX plans to begin what it calls beta testing with perhaps 10,000 private customers about three months from now when it has about 840 satellites in orbit. Beta testing alone could have devastating consequences. If and when Starlink signs up millions of paying customers, it is possible that nothing will survive

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-- no humans, no animals, and no insects. It is likely that it will be blamed on COVID-19, unless this world wakes up in time.

The Digitalization of the Ionosphere

The harm from satellites is not due primarily to the radiation levels at the earth's surface. The satellites are in low orbits, but they are still hundreds of miles above us, and the levels of radiation they expose us to here on the ground are at most about $0.00001 \mu\text{W}/\text{cm}^2$. That is about one-millionth of the levels we are exposed to from cell phones, computers and cell towers.

The threat to life comes instead from the fact that all these satellites are located in the ionosphere. The ionosphere is a source of high voltage that controls the global electric circuit, which in turn provides the energy for life. A brief discussion of the science can be found in my 2018 article, "Planetary Emergency". Those who wish more detail may wish to consult chapter 9 of my book, *The Invisible Rainbow: A History of Electricity and Life*, and the bibliography supplied with that chapter. That chapter is titled "Earth's Electric Envelope."

All animals and plants are polarized positive to negative from head to feet, or from leaves to roots. An electric current of picowatt per square meter amplitude flows from the positively charged sky to the negatively charged earth in fair weather, courses through the earth beneath our feet, and returns to the sky via lightning bolts during thunderstorms. Every living thing is part of this circuit. The current enters our heads from the sky, circulates through our meridians, and enters the earth through the soles of our feet. This current provides the energy for growth, healing, and life itself. We do not live by bread alone, but by the energy provided to us by the biosphere. Oriental medicine calls it qi or ki, Ayurvedic medicine calls it prana, and atmospheric physicists call it electricity. It provides us energy for life, and information that organizes our bodies. If you pollute this circuit with billions of digital pulsations, you will destroy all life.

It is one thing to sit in front of a computer all day, or hold one in your hand. It is quite another to live inside of one.

We will soon have 20 billion more devices, deploy 800,000 5G antennas and launch 20,000 satellites and unmanned drones transmitting 5G signals into air, land and sea 24/7.

https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fwww.cellphonetaskforce.org%2f5g-satellites-a-threat-to-all-life%2f&c=E,1,S3i4vG1e-x-nC3FTdSyl1u7vMbTqgmrCvJDYe5542Hdnv5LSMTR_yuFeO5Tg-GBhZkmH_3Xn8WWrChAXQLD45y0iOiNpCBuR9fs6Zo0kGG&typo=1

All this must be prevented if we want to survive.

Sincerely, Annemarie Weibel