

WHAT ARE THE CELL TOWER CHANGES PLANNED BY VERIZON?

Verizon plans to add 3G and 4G antennas for a total of nine cell antennas on the tower located at City Hall in downtown Sebastopol.

WHY SHOULD WE BE CONCERNED ABOUT THIS?

The World Health Organization's International Association for Research on Cancer has classified radiofrequency electromagnetic fields (RF or wireless) as a carcinogen, in the same category as lead, DDT and asbestos. Verizon's calculations predict 20 times or more RF increase in Sebastopol, with highest levels at two and three story elevations.

Studies indicate serious risk to public and environmental health within 1,000 feet of a cell tower. There are no safety studies specific to 4G antennas, but their frequencies and power levels are known to better penetrate buildings and affect biological systems more adversely than existing technology.

WHAT ARE THE HEALTH RISKS?

In addition to cancer, RF health impacts include headaches, sleep disruption, ringing in the ears, heart rhythm disturbances, dizziness, nausea, skin rashes, loss of concentration, memory and learning problems, depression, immune system suppression, and DNA damage.

"There is now sufficient scientific data about the biological effects of EMF, in particular about radiofrequency (RF) radiation to argue for precautionary measures. We can state unequivocally that EMF can cause single and

double strand DNA breakage at exposure levels that are considered safe under the FCC guidelines in the USA."

— **Martin Blank, PhD**, Columbia University Professor of Physiology and Cellular Biophysics.



Cell Tower

"We have seen clinical evidence that electropollution affects the normal functioning of the electrically sensitive heart, including the rate and rhythm, and other systems of the body."

— **Stephen Sinatra, MD**, Cardiologist, Fellow in the American College of Cardiology and founder of Heart MD Institute.

WHO WOULD BE AFFECTED BY THIS INCREASE IN RADIATION?

All members of the population, especially children and downtown residents. Children are more vulnerable due to their smaller size, thinner skulls and developing bodies. Businesses, schools, the library, the senior center, city hall offices, tourists, customers, pets, wildlife and the environment would all be impacted.

IS WIRELESS RADIATION HARMFUL TO ANIMALS?

Yes. "...microwave and radiofrequency pollution constitutes a potential cause for the decline of animal populations and deterioration of health of plants living near phone masts."

— **Alfonso Balmori**, Electromagnetic Biology and Medicine (2005; 24:109–119)

WHO PROTECTS US FROM THESE HAZARDS?

No one. Just like the tobacco industry of the 1950s, Big Telecom has bought the science and influenced our government. With billions of dollars at stake, the wireless industry protects their profits rather than our health.

"Only 25% of studies funded by the wireless industry show some type of biological effect from microwave radiation, while among independently funded studies, 75% show a bioeffect."

— **Henry Lai, PhD**, Department of Bioengineering, University of Washington