

# AN ACT

## PROPOSED TO SENATE AND HOUSE OF REPRESENTATIVE MEMBERS OF THE STATE OF COLORADO FOR CONSIDERATION:

**Establishing a commission to study the environmental and health effects of all existing, and currently evolving 5G, wireless technology.**

### Commission to Study the Environmental and Health Effects of All Existing, and Currently Evolving 5G, Wireless Technology

*Be it Enacted by the General Assembly of the State of Colorado:*

Commission Established:

There is established a commission to study the environmental and health effects of wireless technology, including evolving 5G which uses earlier generation technologies. Fifth generation, or 5G, wireless technology is intended to greatly increase device capability and connectivity, but also may pose significant risks to humans, animals, and the environment due to increased radio frequency radiation exposure. The purpose of the study is to examine the advantages and risks associated with the use of wireless technology, with a focus on its environmental impact and potential health effects, particularly on children, fetuses, the elderly, and those with existing health compromises.

Membership.

I. The members of the commission shall be as follows:

- (a) Three members of the House of Representatives, including one member from the House Energy and Environment Committee and one member from the Public Health Care and Human Services Committee, appointed by the Speaker of the House of Representatives.
- (b) Two members of the Senate, appointed by the President of the Senate.
- (c) A member of the public, appointed by the Governor.
- (d) The Attorney General, or designee.
- (e) Two members of the Colorado Technology Association, appointed by the association.
- (f) One member representing the Colorado Association of Business and Industry, appointed by the association.
- (g) One member of the Colorado Medical Society who specializes in environmental medicine and is familiar with electromagnetic radiation, appointed by the society.
- (h) One member representing the university system of Colorado knowledgeable in radio frequency radiation, appointed by the chancellor.
- (i) One member of the cell phone/wireless technology industry, appointed by the President of the Senate.
- (j) The commissioner of the Colorado Department of Human Services, or designee.
- (k) The commissioner of the Colorado Department of Public Health and Environment, or designee.

(l) One public member with expertise in the biological effects of radio frequency radiation, appointed by the Speaker of the House of Representatives.

II. Legislative members of the commission shall receive mileage at the legislative rate when attending to the duties of the commission.

III. The members of the commission shall elect a chairperson from among the members. The first meeting of the commission shall be called by the first-named House member. The first meeting of the commission shall be held within 45 days of the effective date of this section. Nine members of the commission shall constitute a quorum.

#### Duties and Reporting Requirement.

##### I. The commission shall:

(a) Examine the health and environmental impacts from radiofrequency (RF) radiation emitted from the waves in the 30-300 gigahertz (GHZ) range of the electromagnetic spectrum, which falls somewhere between microwaves and infrared waves, and which are required with the rollout of 5G technology.

(b) Assess the health and environmental impacts of 5G technology, which requires small cell towers to be placed at a distance of 250 meters from each other at telephone pole height from the ground and will operate in conjunction with the 3G and 4G technology infrastructure.

(c) Receive testimony from the scientific community including but not limited to physicists and electrical engineers, the medical community including but not limited to cellular experts and oncologists, the wireless technology industry including but not limited to cell phone businesses and businesses working on the development of autonomous vehicles which will rely on 5G technology, as well as other organizations and members of the public with an interest in wireless and 5G technology.

(d) Consider the following questions and the impact on Colorado citizens, municipalities, and state government of:

(1) Why the insurance industry recognizes wireless radiation as a leading risk and has placed exclusions in their policies not covering damages caused by the pathological properties of electromagnetic radiation?

(2) Why do cell phone manufacturers have in the legal section within the device instructions to keep the phone at least 5mm from the body?

(3) Why have thousands of peer-reviewed studies, including the recently published U.S. Toxicology Program, 16-year, \$30 million study, that are showing a wide-range of statistically significant DNA damage, brain and heart tumors, infertility, and so many other ailments, been ignored by the Federal Communication Commission (FCC)?

(4) Why are the FCC-sanctioned guidelines for public exposure to Wireless radiation based only on the thermal effect on the temperature of the skin and do not account for the non-thermal, non-ionizing, biological effects of wireless radiation?

(5) Why are the FCC radio frequency exposure limits set for the United States one-hundred times higher than countries like Russia, China, Italy, Switzerland, and most of Eastern Europe?

(6) Why did the World Health Organization (WHO) signify that wireless radiation is a Group B Possibly Carcinogenic to Humans category, a group that includes lead, thalidomide, and others, and why are some experts who sat on the WHO committee in 2011 now

calling for it to be placed in the Group 1, which are known carcinogens, and why is such information being ignored by the FCC?

(7) Why have more than 220 of the world's leading scientists signed an appeal to the WHO and the United Nations to protect public health from wireless radiation and nothing has been done?

(8) Why have the cumulative biological damaging effects of ever-growing numbers of pulse signals riding on the back of the electromagnetic sine waves not been explored, especially as the world embraces the Internet of Things, meaning all devices being connected by electromagnetic waves, and the exploration of the number of such pulse signals that will be created by implementation of 5G technology?

II. The commission shall prepare and publish an interim and final report of its findings and recommendations. The reports shall:

(a). Outline the advantages of, and risks associated with, 5G technology running in conjunction with the 3G and 4G technology infrastructure.

(b) Develop a strategy, if deemed necessary, to limit RF radiation exposure from 5G or lesser generation technology relying upon electromagnetic waves.

(c) Include a public policy statement on 5G wireless systems, which either declares the technology safe or outlines actions required to protect the health of its citizens and environment.

(d) Consider alternatives to 5G technology that will accelerate information flow speeds and volumes without the use of electromagnetic waves that emit high levels of radiation.

(e) Provide any recommendations for proposed legislation developed by the commission.

III. The commission shall submit the interim report required under paragraph II to the Speaker of the House of Representatives, the President of the Senate, the House clerk, the Senate clerk, the Governor, and the State library on or before (*appropriate date*) and shall submit the final report on or before (*appropriate date*).