

July 13, 2016

To: Tom Wheeler, Chairman, U.S. Federal Communications Commission;  
FCC Commissioners Mignon Clyburn, Jessica Rosenworcel, Ajit Pai and, Mike O'Reilly

Re: Comments on FCC Rulemaking Proceedings 14-177, 15-256, 10-112, and 97-95

We strongly oppose the proposal to deploy Spectrum Frontiers 5G across the United States, based on health grounds. We understand that the FCC Commissioners plan to consider these proposed rules on Thursday, July 14, 2016. It sounds as though efforts will be made to expedite these rules to ensure that the U.S. is first in the world to offer "The Internet of Everything".

FCC's leadership seems to view high band wave spectrum as an unqualified benefit to society. We disagree. These high frequency and untested technological innovations may cause great harm to human health and the natural environment. Serious questions being raised about adverse effects on health and the environment need to be assessed as part of the proposal and should not be ignored.

Over two decades ago, wireless devices and infrastructure were introduced without pre-market surveillance or environmental review. Many medical doctors, scientists, public officials and citizens now realize that adverse health effects are the direct result of inadequate protections under FCC's current radiofrequency human exposure guidelines. The public is not protected.

Experts now say that between 3-30 percent of the developed world's population suffer from electrical hypersensitivity, referred to as EHS, that is caused by a toxic environment. Some people become entirely functionally disabled due to the severity of their reactions. They must guard their health closely and this means avoidance of wireless devices and infrastructure. Other people suffer debilitating neurological symptoms that are less severe, and may be able to work and participate in normal activities as long as they limit EMF exposure. Experts warn, and we know from what we see and experience, that EHS symptoms can progress in severity and lead to diseases that are life-threatening or fatal.

We live in a relatively isolated area of Navajo County, in NE Arizona, by choice. We have various types of environmentally related illnesses that include electromagnetic hypersensitivity. Many of us live with chronic health problems, weak immune systems, and extreme vulnerabilities. Our very survival depends on living in a relatively clean environment with minimal involuntary exposure to wireless technologies including cell antennas, Wi-Fi, smart meters, and mobile devices.

Deployment of Spectrum Frontier 5G that likely would be mandatory, universal and unregulated would leave us no way out of the pain and incapacitation that come with involuntary, chronic exposure to radiofrequency and microwave radiation. Forced installations of small antennas near to and inside our residences and the local businesses, services, and healthcare facilities we rely upon will force us from our homes and neighborhoods, with no safe place to go.

For more information on electrical hypersensitivity, we refer you to Dr. William Rea, MD; Dr. Magda Havas, PhD; Dr. David Carpenter, MD; Dr. Beatrice Golomb, MD, PhD; the American Academy of Environmental Medicine; and, perhaps most importantly, we refer you to [www.eiwellspring.org](http://www.eiwellspring.org), a website for people coping with environmental illness.

In 2015, the International EMF Scientist Appeal was submitted to the United Nations, the World Health Organization and the United Nations Environmental Programme. The Appeal can be viewed at [www.emfscientist.org](http://www.emfscientist.org) and is now signed by 220 scientists who have published peer-reviewed research on electromagnetic fields and biology or health. Their expert knowledge brings them to urgently call for stronger regulatory standards for radio frequency (RF) emissions.

Please review the early findings of a major \$25 million U.S. government study, under the auspices of the U.S. National Institute of Environmental Health Sciences. This study, <http://ntp.niehs.nih.gov/results/areas/cellphones/index.html>, applying radiofrequency radiation reports a causal relationship and a dose response between cell phone radiation and a malignant brain tumor called Glioma, and a heart schwannoma benign tumor. These early findings, at a minimum, confirm the 2011 classification of radiofrequency radiation as a Group 2B human carcinogen. Consult the Federal health agencies, in light of the findings of this study and other research in order to ensure human, civil and accessibility rights are protected before proceeding to deploy this technology.

You are public officials being asked to approve a proposal to deploy 5G Spectrum Frontiers.

We strongly urge you to defer any decisions, in order to investigate the health concerns we are raising.

Deployment will have adverse impacts resulting from the placement of countless small, unregulated antennas near to and inside our private homes. This proposal, if approved, will generate new sources of radiofrequency and microwave radiation, and lead to encroachment by wireless technologies that will dislocate people and will make it impossible for us to find safer places to live.

Sincerely,

Doreen Dougherty, Snowflake, AZ

Susan Molloy, Snowflake, AZ

Joan Robinson, Vernon, AZ

John A. Russian, Snowflake, AZ

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