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Brief Comment

I'm deeply concerned by the FCC's clear lack of adequate oversight with regards to the licensing and regulating of wireless transmissions. The accelerated move to 5G that appears to be happening in the U.S. without consideration of the dire warnings of most of the scientific community studying the effects of RF's/EMF's, is extremely reckless, and will have devastating consequences to the biological processes of all living things. The continued release of satellites into our orbit in the ionosphere must stop immediately until the effects can be adequately studied. Astronomers study the circulation of energy between the sun and the ionosphere. Atmospheric physicists study the global electrical circuit between the ionosphere and the earth. Doctors who practice acupuncture (which I have benefited from) study the circulation of energy within our bodies. Geophysicists are studying the effects of power line radiation on the ionosphere. But those who are studying the effects of sending massive electrical waves into our ecosystems - scientists who are seeing "the big picture" - are being ignored. A personal concern is that my wife has been diagnosed with mast cell activation syndrome (MCAS). Multiple studies clearly show degranulation by mast cells at frequencies far below what is being proposed with 5G. Degranulation means that mast cells will release pro-inflammatory biochemicals throughout the body, increasing the risk of systemic inflammatory conditions, such as heart disease, cancer, and dementia. The frequencies being

proposed for 5G are a thousand-fold higher than what is happening currently with 4G. Degranulation occurs at levels far below what is allowed for 4G

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These are some of the effects we know about for adult humans. What is not clearly known is the effects on animals, including pollinating insects on which much of our agriculture depends, although scientists are beginning to understand the enormous negative effects. The FCC's repeated refusal to consider biological effects from exposure to all types of wireless radiation shows a clear and dangerous intention to disregard the emerging science which must inform its decisions regarding public health. The agency's reliance on organizations of physicists and engineers for advice on human exposures has resulted in a sole focus on "thermal" effects, despite thousands of published, peer-reviewed studies showing biological harm, even at non-thermal levels, for various frequency ranges. The FCC's own admission that it is unaware of any other types of effects demonstrates a failure to actively investigate the issue by proactively engaging with the scientific community studying the short and long-term biological impacts of exposure to humans and possible interference with systems of the natural world. Failure to seek out and consider the latest science makes decisions of the FCC suspect. It's difficult for me to understand who a federal agency responsible for protecting the health of its citizens can proceed with allowing a technology that will drastically and forever negatively impact life on the planet. Financial gain from this technology by any corporation, and its perceived positive impact on our economy, should in no way be a determining factor preventing the FCC from doing its job of protecting the American populace from harmful, if not lethal, consequences. There are thousands of published studies clearly showing a link between these technologies and detrimental health to humans and animals. Please do not disregard these in your rulings.