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Name of Filer	Joyce Dickerman, PhD		
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Joyce Dickerman PhD's Comments submitted along with links and biological scientific studies pdfs pertaining to: FCC Comment Filing 19-226

The FCC's has repeatedly shown an obvious and dangerous intent to refuse to earnestly and honestly review thousands of published peer-reviewed studies that do verify biological harm at non-thermal levels for various ranges of radiation exposures to biological organisms. The purported mission of the FCC tasks them to pay careful attention to the emerging science which should be informing their decisions regarding the protection of public health rather than industrial and financial interests of telecommunications providers.

The agency's reliance solely on organizations of physicists and engineers for advice on human exposures has resulted in a disingenuous focus on only one isolated physical effect, despite thousands of published literature studies showing a plethora of biological impacts on humans and other biological organisms.

The FCC's own admission that it is unaware of any other types of effects demonstrates once again highlights their abject failure to actively investigate impacts to biological systems in a responsible and meaningful way. At this link is a review of literature published back in 1994 as a chapter on Neurological Effects of Radiofrequency Electromagnetic Radiation (https://link.springer.com/chapter/10.1007%2F978-1-4615-2542-4_2#page-1) within the Advances in Electromagnetic Fields in Living Systems. So for the FCC to say they are "unaware" is just outrageous and hugely disingenuous (as an understatement). I have also attached pdfs and include the link here for just 2 more recent studies on EMF impacts to neurological systems: A 2018 & 2017 published studies: A Prospective Cohort Study of Adolescents' Memory Performance and Individual Brain Dose of Microwave Radiation from Wireless Communication https://ehp.niehs.nih.gov/doi/pdf/10.1289/EHP2427 and Effects of short and long term electromagnetic fields exposure on the human hippocampus https://reader.elsevier.com/reader/sd/pii/S2213879X17300524?token=0A1A8451B5DB5FB95DB1EB66EE621652C2DEC12AFD59F8782A30C86D3E342F4C02FEF8462BD80830C9FDB43DEF0BA2B1

I personally have studied and seek ever more effective means to mitigate the neurological impacts I personally experience from my exposures to current levels of EMFs from electronic devices and routers in my everyday life. Among my symptoms are tremors, headaches, brain fog, difficulty focusing and compromised immune functions. For over 25 years now I have dealt with these EMF challenges. In the mid1990s those of us impacted by EMFs were relatively rare, but as all the wireless devices and hot spots have exploded, along with the increasing to ever more 'potent' technologies, I am encountering significantly larger and larger segments of the population EMF compromised and impacted. I have a PhD and was employed as an aquatic ecologist for Environmental Impact Statements and Environmental Assessments on the NEPA teams at the Oak Ridge National Labs and my initial exposures to EMF that resulted in the emergence of my symptoms was there. The FCC, in considering only thermal effects around establishing safe human exposure limits, is extreme malfeasance and an obvious violation of their public duty. Biological impacts are significant to biological individuals and their earnest investigation and review of the large body of published, peer-reviewed papers, deserve high priority by truly independent scientists that are undertaking the most honest assessment of these biological risks.

Links hereby incorporated by reference.