SUBMISSION TO THE DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS)
Regarding: Request for Information (RFI) on Electromagnetic Fields (EMFs) and Wireless Radiation Exposure
Docket ID: HHS-OASH-2026-0397
Submitted By: Elizabeth Wright

I'm Willing, I'm Able, I'm Your Canary In The Coal Mine, and you'd be wise to listen to my song.
I wish I could go back to those cold winter days in Colorado Springs, hug the terrified mama I was, and tell her it would be worth it in the end. I wish I could tell her that after a ten-year struggle, she would find her way through.

That would be true, but heed the warning I'm about to share! Because you or your family could be next. This is endemic to our culture. What if anxiety and depression, symptoms of autism, learning disabilities, hives, fevers, suicidal ideation, crippling migraines and insane food, chemical, and environmental sensitivities weren't just a random list of symptoms? What if it was the layers of hell you descended into, something you faced not just yourself, but as a family? Welcome to our family in 2016.

I wish I could say I'm being dramatic here, but if anything I'm tempering this because I've been brushed off so many times. The truth is we nearly lost it all, including our family, all because of the intermingled story of toxic mold, EMF and RF poisoning.

We lived in one of the wealthiest neighborhoods of Colorado Springs. We had a 3,000 square foot home filled with lovely things and a family that deeply loved each other. We weren't perfect, but we were good. Our kids were winning at life, and my physician husband and I had just finished our part in building a wellness center for the region. We were scrupulous with our diet, with exercise, with stress management. supplements, chiropractic adjustments, and traditional medicine all kept us well… until it didn't.

In 2016, our then sixteen year old son started having strange symptoms. This weird itchy patch on his arm, really bad nausea every day, anxiety from a kid who up until that point had made us laugh hourly. We didn't let our children have social media, so that wasn't to blame, yet here he was getting more depressed, withdrawn and sick by the day. We had to get an IEP at his school so that he could be home as much as possible. I even stopped working to care for him, and things just kept getting worse over the months. Little did we know, as the "bougiest" part of town, we were "gifted" with the 5G cell towers throughout our neighborhood before it became available to other areas. We had also just gotten a cell phone for him and he was using Wi-Fi on his laptop to complete the schoolwork he was missing. Our son started declining rapidly, if only we could have known!

At its worst, in about a ten-day window, he went from a kid who could roll with just about anything to completely dissociated. He couldn't speak, didn't recognize his dad or siblings and only recognized me. When he did speak, he thought he was on a ship with Moby Dick chasing after him. He clung to me night and day and I couldn't leave his side. When we came out of his bedroom for a doctor's appointment one day when he could speak, he shook his siblings' hands and introduced himself. It was devastating! This kid, who just two weeks earlier was in a band, president of student council, and well on his way to an awesome life.

Because we had faced Lyme Disease in the past, we thought maybe that was the culprit. We went to the premier physician in the region. She ran some tests, told us to keep him calm and sedate, and sent us home. Things continued to escalate, and we were worried he would be a danger to himself or his siblings, so I shut myself in a room with him to await the findings. We called other experts, we grasped for straws, and still the 5G continued to blast our home. Finally, we found an expert on Lyme who would work with us.

On our way to the airport, my husband and I made a decision, “We’re going to get this kid well or die trying.” The premier physician from our region said she had no idea what was going on, but recommended we put our son in a mental institution and probably resign ourselves to the fact that it was a one-way ticket. We chose to fight for him instead… little did we know we would soon be fighting for our whole family.

After trying all sorts of conventional and non-conventional therapies and being separated from the rest of the family for months, we made the difficult decision to move the whole family closer to the specialist because our other children were beginning to have symptoms as well. My husband was getting blinding headaches, and we were running out of financial resources to run two households and pay for all of these treatments out of pocket.

We ended up moving to a trailer that we didn’t know was also even more moldy and setting up our technology so that we could work remotely. Wi-Fi, Repeaters, Cell Phones, etc… by the end of the summer we were even sicker. We moved into my parent’s home and kept trying to get the kids well, while we watched them slip away. Our oldest son who was trying to get into college and had gotten a 33 on his ACT without even studying had to dictate to me for his college applications because he couldn’t write or spell. Our daughter was getting dangerously thin because of all of the strange food allergies she was facing. Our youngest was developing a very peculiar learning disability that came and went but seemed a lot like dyslexia. We were stumped.

About a year into this nightmare, my husband started looking at doing some genetic testing on the children and we discovered they had some anomalies that made them more sensitive to mold toxicity.

We were desperate for answers. We decided to sell everything we owned at auction, cash out our 401Ks and do whatever we could to try to save our family. We moved to Arizona to be near a world-renowned Mold Toxicity specialist. We loaded up our minivan with the kids and moved to a small rental home we had tested as mold-free and bought a metal bed frame, foam mattress, bedding, basic dishes and two sets of clothing each. Unknowingly, we again set up all of our EMF/RF producing paraphernalia to keep working from home. Once we were finally able to meet with the specialist, she took one look at our son, handed us disability paperwork and said that when a child’s brain was that damaged, there was no coming back. Based on our other children’s symptoms, she warned us to anticipate that none of our brilliant children would likely be able to live outside of a group home or institution if they survived at all.

Working all day, then searching for or creating protocols most of the night, my husband was on the hunt for answers. I turned into a full-time nurse for our son and the other children night and day for three years. Things were improving a bit, as we learned and worked on getting all things out of the house that could trigger symptoms based on mold toxicity. Our two oldest sons got service dogs: one to detect mold bio-toxin and one to do medical alert.

We were exhausted and had exhausted most of our resources. Our oldest had gone to AZ State University Honors college, and by the end of the year was so debilitated, he almost couldn’t walk. He was in constant excruciating pain. We had to pull our two youngest children from school because of their worsening symptoms. Life was unraveling.

Around 2019, we started learning about EMF/RF and the final puzzle pieces began to come together. We were mold-free and symptoms had remained and some had even gotten worse. We learned (the hard way) that this type of radiation acts like a key to a cell's lock. Because our kids already had so many toxins in their systems from the mold and the Lyme, the EMF/RF exposure was basically forcing their cell defense systems to remain open and breach the blood-brain barrier. It allowed neurotoxins to completely flood their brains, triggering psychiatric breaks, dissociation, and severe headaches we were seeing. It was the missing piece to the whole nightmare. It also explained many if not most of the auto-immune and learning difficulties the family was facing.

So, we went radical. We wired our entire house, we wouldn't let any cell phones in our home, we got EMF blocking fabric and even set up tents for our children to sleep on with the lawn furniture we had bought. There were cords and cables everywhere. Our children couldn't be kids. They couldn't have normal interactions. Our daughter even wrote a paper that was published in the UK about her experiences. In short, this was destroying us and our family. Our happy marriage of over 20 years was crumbling. We were desperate to escape.

Finally, in 2020 when everyone was locked down in their homes, we discovered just how blanketed in EMF/RF the entire Phoenix area was. With all of our neighbors at home, the EMF got much more intense and our house wan no longer a haven. So, we made yet another move to a home that was safe for our family in rural Louisiana. I wish I could say things instantly turned around. That is not true. However, over time homeschooling our children, wiring our internet, keeping all cell signals, bluetooth, and wifi from our home, and severely limiting leaving the house, most of the family is recovered/recovering. We will live with some symptoms the rest of our lives, and it has negatively impacted our ability to be educated, do normal activities of daily living like errands, socializing, church, etc… We have been ridiculed and ostracized professionally and personally because we can't use technology the way others can. We sunk every dime we had into getting everyone well. Had we not had the financial resources and unique expertise of our chosen professions, I have no doubt this story would have ended much more tragically.

Because of what this technology does to a child's developing brain by physically bypassing their thinner skull, it disrupts their fragile neural wiring. Sadly, I believe many more children and young adults will be victimized just like our four children. We must immediately treat this as the public health crisis it is. I recommend a complete, absolute ban on all cell phones and wireless routers and devices in public and private K-12 schools and other places where children gather. Our children are legally required to be in those classrooms; they should not be forced to soak in a daily bath of radiation while their bodies are developing. Otherwise, like my own children, countless kids may face life-long negative physical and mental health costs that we don't even fully grasp yet. Yes, it would be costly initially, but what is the cost to our population to deal with long-term physical and mental health challenges that this technology uniquely creates? I argue that it is likely incalculable.

Bring us to Washington to testify. We have much more to share: charts, clinical data, expertise, and over ten years of lived experience! We won't stop speaking out around this important issue that up until now has had almost zero advocacy, but has been marginalized and ridiculed. Everyone knows the worst-kept secret that this causes cancers of all kinds. Very few are talking about the other ways it is destroying health and immunity. EMF/RF is the smoking of our generation, and someday people will see. We are not statistics… we are the canaries in your coal mine, and you'd do well to listen to our song.

SCIENTIFIC ADDENDUM & SYSTEMIC EVIDENCE BRIEF

Review Track: Cumulative Environmental Synergy, Non-Thermal Biological Effects, and Vulnerable Youth Subpopulations

I ask the panel to review the following peer-reviewed, National Institutes of Health (NIH) indexed data, pediatric biophysical models, and published youth exhibits documenting the biological mechanisms of environmental synergy:

I. BIOMEDICAL CONTEXT & DATA INTEGRITY BRIEF

1. Radiation Unlocks the Blood-Brain Barrier (The VGCC Mechanism)
Acute neurological descent, sudden dissociation, and severe neuropsychiatric breakdowns map perfectly to biophysical data archived by the NIH. Peer-reviewed research demonstrates that non-

thermal wireless radiation forces open the Voltage-Gated Calcium Channels (VGCCs) in human cell membranes. This causes a massive, unnatural influx of intracellular calcium, triggering severe oxidative stress and destroying the tight junctions of the blood-brain barrier.

- **The Synergy with Pathogens:** For individuals carrying an underlying microbial or mycotoxin load (such as persistent Borrelia or mold exposures), this radiation-induced barrier failure permits circulating neurotoxins to freely flood the central nervous system, precipitating rapid, profound neuropsychiatric breaks, acute dissociation, and encephalopathy.

- **Primary Citation:** Pall, M. L. Electromagnetic fields act via activation of voltage-gated calcium channels to produce beneficial or adverse effects. (2013). Journal of Cellular and Molecular Medicine. PMCID: PMC3780531.

2. Innate Neural Inflammation and Cognitive Dysfunction

Direct inhalation of common environmental mold spores is clinically proven to cross the nasal epithelium and trigger localized, severe inflammatory responses in key structures of the central nervous system. NIH-published data establishes that low-dose mycotoxin exposure directly activates inflammatory cytokines (specifically interleukin-1β) in the hippocampus, destroying working memory and driving severe anxiety.

- **Primary Citation:** Mold inhalation causes innate immune activation, neural, cognitive and emotional dysfunction. (2020). Behavioral Brain Research. PMCID: PMC7231651.

3. Overlapping Clinical Syndromes & Systemic Sensitization

The profound clinical overlap between individuals suffering from mold mycotoxicosis and those suffering from Electrohypersensitivity (EHS) is recognized in environmental medicine literature. Accumulated environmental toxins chronically prime the immune system's mast cells. Because these cells respond aggressively to ambient electromagnetic fields, a pre-existing biotoxin burden sets off Mast Cell Activation Syndrome (MCAS). Ambient wireless fields continuously trigger these hyper-sensitized cells to de-granulate, explaining systemic symptom clusters like chronic migraines, unprovoked fevers, hives, and profound chemical sensitivities.

- **Primary Citation:** Mycotoxins, fungus and 'electrohypersensitivity'. (2000). Neuro Endocrinology Letters. PMID: 10985910.

4. Pediatric Skull Permeability and Elevated Absorption Rates

Safety baselines used by federal regulatory bodies fail to protect the pediatric model because they do not account for a child's unique anatomy. Peer-reviewed data archived by the NIH demonstrates that children absorb significantly more electromagnetic energy than adults.

- **The Biophysical Mechanism:** Because a developing child has a smaller head diameter, significantly thinner skull bones, and higher tissue conductivity within their developing nervous system, anthropogenic radiation penetrates deeper into their brain tissue. This physiological vulnerability dramatically increases their risk for long-term neurodevelopmental disruptions.

- **Primary Citation:** Health effects of electromagnetic fields on children. (2020). Clinical and Experimental Pediatrics / NIH. PMCID: PMC7642138.

5. Neurodevelopmental Delay and Home RF-EMF Exposure

Prospective cohort tracking directly measuring household radiofrequency electromagnetic field (RF-EMF) radiation from everyday items (cell towers, Wi-Fi routers, smart gadgets) demonstrates a clear correlation with developmental delays in infants. High-exposure environments show significantly higher odds of children requiring clinical intervention for fine motor and problem-solving deficits.

- **Primary Citation:** Radiofrequency Electromagnetic Field Emissions and Neurodevelopmental Outcomes in Infants: A Prospective Cohort Study. (2025). Cureus Journal of Medical Science / PubMed. PMCID: PMC12335284.

6. Clinical Observations on Environmental Synergy
Data within environmental medicine networks (such as clinical frameworks compiled by Dr. Dietrich Klinghardt) demonstrates that biological pathogens interact dynamically with man-made frequencies. Fungal cultures shielded from ambient wireless radiation inside a Faraday cage exhibit significantly lower metabolic activity and toxin output, whereas cultures exposed to ambient RF infrastructure accelerate their output, indicating that fungi increase mycotoxin production as a biological defense mechanism against electromagnetic stress.

II. APPENDIX: EXHIBIT A
Published Case Review & Subpopulation Testimony

- **Document Title:** EMFs: The Silent Killer In Your Home
- **Author:** My daughter (Composed in 2020 at Age 15 as a 9th-Grade Environmental Research Project; she has since reached adulthood) [1]
- **Publication:** ElectricSense Environmental Health Portal (Published July 13, 2020) [1]
- **Direct Access Verification URL:** electricsense.com [1]

Significance to the HHS Request for Information:

As the sole submitter of this testimony, I include this appendix item as a vital historical account of a vulnerable youth subpopulation navigating anthropogenic radiation. This primary document was researched and written by my daughter when she was a 15-year-old minor to document our multi-year family trajectory through structural displacement, strict environmental isolation, and long-term homeschooling due to severe acquired Electromagnetic Hypersensitivity (EHS) and concurrent Mold Biotoxin Illness.

Though both she and her brothers have since reached adulthood, this text is preserved in its original context from 2020 to provide the panel with her synthesized review of clinical notes from the 2019 EMF Health Summit. It maps out specific household radiation vectors (Wi-Fi, repeaters, cellular devices) and details the exact cascading biological breakdown that occurs when an underlying biological burden meets high-density wireless infrastructure. It stands as a vital primary record showing that even children are capable of identifying the environmental loops trapping modern households.

III. MANDATORY MANDATE & CALL TO ACTION FOR THE HHS PANEL
The evidence presented in these combined documents requires immediate, structural federal intervention. I formally demand that the Department of Health and Human Services execute the following policy actions:

1. **Acknowledge Non-Thermal Environmental Synergy:** Federal thresholds must immediately expand beyond outdated, isolated "thermal" metrics that only measure if wireless radiation physically heats tissue. HHS must formally evaluate how anthropogenic radiation dynamically interacts with biological indoor pathogens like mycotoxins.

2. **Establish Legal Protections for Vulnerable Subpopulations:** Formally recognize citizens carrying an underlying genetic sensitivity, chronic biotoxin burden, or vector-borne infection (Lyme/Mold/MCAS) as a highly sensitive, biologically vulnerable class of individuals who experience acute neurological and physiological injury under ambient RF stress.

3. **Implement a Comprehensive Mandate for Wireless-Free K-12 Educational Environments:** Mandate the complete removal of commercial cell phones and wireless local area networks (Wi-

Fi) from all public and private K-12 schools, shifting educational infrastructure to secure, low-emission hardwired internet connections. Children are a captive population required by law to occupy school buildings; forcing them into environments with constant ambient wireless fields violates basic precautionary health principles. This matches international health precedents set by nations like France, Cyprus, and Israel, which have already legally banned or restricted Wi-Fi in nursery and elementary schools to mitigate pediatric neurodevelopmental health risks.

4. **Readjust the Federal Baseline to Protect the Pediatric Model:** Immediately halt the practice of using an adult male template to determine national safety compliance limits. HHS must enforce a new regulatory mandate requiring all consumer electronics and wireless infrastructure to be safety-tested and calibrated against the thin-skull, highly conductive anatomical model of a developing child.

5. **Issue Public Health Warnings on Environmental Architecture:** HHS must launch public awareness campaigns warning families about the dangers of placing high-power wireless devices (routers, repeaters, laptops on Wi-Fi) inside enclosed indoor spaces that harbor hidden water damage or mold metrics.

6. **Convene an Emergency Sub-Committee Panel & Hearing:** Call an official congressional and medical panel hearing regarding non-thermal radiation sickness. Bring environmental medicine experts, clinical practitioners, and severely impacted families—including our own—to formally testify before the panel to rebuild safety parameters from scratch.

Respectfully Submitted,
Elizabeth Wright