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William E. English M.D. FAAFP

October 1, 2000

Ms Magalie Roman Salas
Secretary
Federal Communications Commission
445 12th St., S.W.
Washington, DC 20554

Re: Ultra-Wideband
ET Docket 98-153 /

I write in support of the proposed rule change that would allow the development of Ultra Wide Bandwidth technologies (UWB).

I am a Board Certified Family Physician who was trained and employed as a Radar Technician and a Computer Engineer in prior careers. In medical school, I had the opportunity to design, build, and program an automated device to monitor patients who had undergone cardiac surgery (circa 1972). While caring for people became my path, I have maintained an interest in both computers and communications technology.

People and corporations are attempting to get the greatest possible bandwidth for their uses and also the greatest personal freedom. Clearly, as the foremost futurists on the planet have pointed out long before me, high capacity wireless communication will explode over the foreseeable future. This will potentially expose all of us to higher radiation levels.

The prime directive for any Physician is "first do no harm".

Very low power UWB methods applied to a wide variety of radar, tracking, and communications problems could reduce this risk of irradiation by a few (2-6) orders of magnitude relative to currently approved technology.

Riding this crest of increasing speed of communications are scientists and engineers who have developed prototypes of complex robots that can replace missing body parts or release hormones in ways that allow the patient to live normally when his organs have failed. Their devices await the availability of smaller, safer, smarter, less energy hungry technologies often connected by wireless means to more powerful

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systems that can intelligently monitor, modify, and coordinate their activities while allowing complete freedom of movement of the user.

A somewhat shorter range goal for me, personally, will be the way in which this technology will safely, securely and with far greater speed, facilitate the medical professions access to full patient information instantly, anywhere... this alone could save thousands of lives a year!

Very low power UWB communications methods will protect and enhance our lives in medical facilities, the workplace, our homes, and perhaps even our bodies.

I am aware of no other technology that has the potential for the development of high digital capacity wireless communications as safely as the UWB technology.

The proposed rule change allows the rapid development of a critical technology that will make a safer world for my patients and speed the development and application of tools to care for many diseases that, at the very best, poorly treated now.

I strongly support the proposed rule change.

Sincerely

A handwritten signature in cursive script that reads "William E. English". The signature is written in black ink and is positioned above the typed name.

William E. English M.D. FAAFP