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FCC Mail Room

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Hon. Diane Feinstein
United States Senate
11111 Santa Monica Boulevard
Los Angeles, California 90025

✓ Cc: Hon. Julius Genachowski

Dear Senator Feinstein:

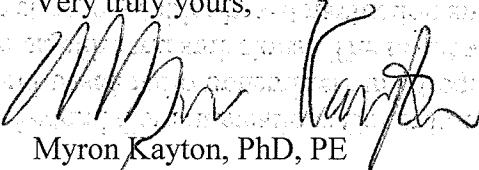
You probably know that the Federal Communications Commission has authorized a network of high-power ground-based radio transmitters in a frequency band previously reserved for ultra-low-power satellite transmissions. The result will be a severe impact on the Global Positioning System, a satellite-based navigation and timing system which has more than 100 million receivers in use for everything from earthquake monitoring to safety-of-flight guidance of landing aircraft.

Satellite signals are extremely low-power because the satellite is so far from earth and because the satellites are powered by small solar arrays. Ground stations, authorized by the FCC, transmit signals that are billions of times stronger than those from satellites. All tests have shown that the strong signals overwhelm the weak ones.

I draw the analogy of the satellite signals as a whisper on a stage of hard-rock musicians. The loud ground stations drown out the "whisper" and distort its signals. If an entrepreneur wants to establish yet another cell phone network, let him do so in a more suitable radio band. Leave the GPS-band for satellite transmissions – "whisperers".

I have been working in the navigation business for more than fifty years, author of many texts and articles, and listed in Who's Who in America.

Very truly yours,



Myron Kayton, PhD, PE