

VB-PLS, INC.
Howard W. Brunner, PLS



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11-109

August 5, 2011

Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Received & Inspected

AUG 10 2011

FCC Mail Room

Dear Ms. Dortch:

As a licensed Professional Land Surveyor in California, I must express serious concerns regarding the Federal Communications Commission (FCC) granting LightSquared, LLC conditional approval to build a nationwide 4G-LTE wireless broadband network (FCC File No. SAT-MOD-20101118-00239). Early testing by GPS technology leaders, Garmin and Trimble Navigation, demonstrated that LightSquared's technology would likely interfere with Global Positioning System (GPS) receivers, degrading their performance in the best case scenario and completely jamming GPS receivers in the worst case scenario.

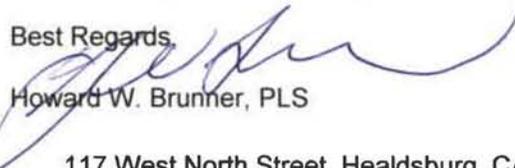
The Department of Defense, FAA, DHS, NASA, DOI, DOT, DOC, and the Professional Land Surveying and Engineering professions, have all expressed serious reservations in regards to this plan by LightSquared, LLC to build 40,000 ground stations in the U.S. that could cause widespread interference to GPS signals. This network of ground stations will transmit signals within the L-band frequency immediately adjacent to the GPS L1 frequency at more than one billion times the strength of the low-power GPS signal from space. Furthermore, each mobile phone using LightSquared's wireless service would potentially become a portable GPS jamming device by jamming GPS receivers in its immediate vicinity.

High-precision GPS equipment used by Land Surveyors, Civil Engineers, farmers, and other geomatics professionals costing thousands of dollars per receiver would be more adversely affected than the consumer GPS devices given their inherent design. Literally, tens of thousands of high-precision GPS receivers are used in the United States. GPS technology has transformed the way we build and manage our infrastructure, adding a tremendous level of efficiency to the design, construction, and maintenance of roads, bridges, commercial properties, residential subdivisions, parks, farms, golf courses, etc.

In California alone, over 4,000 licensed Professional Land Surveyors and 68,000 licensed Engineers use high-precision GPS equipment in their everyday field work. GPS has become an essential tool for design professionals and it is imperative that these GPS signals are not jeopardized by broadband technology.

The FCC must make clear, and the NTIA (National Telecommunications and Information Administration) must ensure, that LightSquared's license modification is contingent on the outcome of the mandated study unequivocally demonstrating that there is no interference to GPS. The study must be comprehensive, objective, and based on correct assumptions about existing GPS uses rather than theoretical possibilities. Given the substantial pre-existing investment in GPS systems and infrastructure, and the critical nature of GPS applications, the results of the study must conclusively demonstrate there is no risk of interference. If there is conflicting evidence, doubts must be resolved against the LightSquared terrestrial system.

This situation has the potential of becoming a tremendous public safety issue and an economical disaster not only for California, but for the United States as a whole. I urge the FCC to reject LightSquared's request and rescind the conditional waiver.

Best Regards

Howard W. Brunner, PLS

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FCC Mail Room

August 5, 2011

Ms. Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Subject: In the Matter of LightSquared Subsidiary LLC Request for Modification of its Authority for an Ancillary Terrestrial Component; SAT-MOD-20101118-00239

Dear Ms. Dortch:

The Phoenix Union High School District has over 25,000 students and each of those students depends on internet connectivity to conduct research and learn new skills. Without the Internet these students would not be prepared for life after graduation, which is why I write today. I ask that you support the efforts of a company called LightSquared. LightSquared wants to introduce next-generation wireless service with a satellite backup system across the country, including in the Phoenix area.

LightSquared is different from other wireless companies for two major reasons:

- LightSquared's innovative wholesale approach, through which it will sell its mobile broadband capacity to service providers who sell to customers, will help new competitors enter a market that currently has only a few players. Competition means better service and lower prices.
With LightSquared's investment in a satellite component, its users will be able to maintain communications in emergencies even if terrestrial wireless and landline systems are compromised.

Clearly, having lower internet costs and the ability to communicate during emergencies would be very beneficial to our school district and many like it.

I understand that the GPS industry has voiced concerns that LightSquared's plans may interference with GPS receivers. LightSquared agrees that these concerns should be addressed, and as I understand it, the Federal Communications Commission has formed a Working Group to handling the matter. Therefore, I ask that you support the regulators in their effort to resolve any outstanding issues as quickly as possible so that our schools can begin to benefit from LightSquared's plans.

Thank you for your time.

Respectfully,

[Handwritten signature of Kent P. Scribner]

Kent P. Scribner, Ph.D.
Superintendent

CC: Senator John McCain
Congressman Ed Pastor

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