

January 30, 2012

Dear FCC,

DO NOT grant LightSquared, LLC approval (FCC File No. SAT-MOD-20101118-00239) to push forward with their initiative to build a nationwide 4G-LTE wireless broadband network. Testing by GPS technology leaders Garmin and Trimble Navigation demonstrated that LightSquared's technology does interfere with GPS (Global Positioning System) 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 concern in regards to this plan by LightSquared LLC company 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 American's have built and managed 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.

Here in Wisconsin, professional land surveyors and licensed engineers use high-precision GPS equipment in their everyday work. GPS has become an essential tool for most land surveyors and geomatics professionals today 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 there is no interference to GPS. Given the substantial pre-existing investment in GPS systems and infrastructure, and the critical nature of GPS applications, the results of any terrestrial system must conclusively demonstrate there is no risk of interference or conflict with GPS systems.

Best Regards,

Jeffrey A. DeZeeuw

Corner Point, LLC
cornerpointllc@att.net
920-682-4772