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August 4, 2011

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

Received & Inspected

AUG 15 2011

FCC Mail Room

Re: Comment Deadlines Established Regarding the LightSquared Technical Working Group Report, IB Docket No. 11-109

Dear Ms. Dortch:

As President/CEO and former state legislators having the honor to representing rural Arizona, we would like to ask that you support the expansion of broadband wireless. After all, high-speed Internet access has become a fundamental part of economic success, and rural America has often fall on the wrong side of the "digital divide." Without the expansion of broadband, rural communities like ours will only face more poverty, unemployment and shrinking economic options.

The good news is a company called LightSquared has been working to improve connectivity in rural communities. In fact, LightSquared plans to invest \$14 billion to deploy a network that combines satellite service with a terrestrial-based broadband wireless network. This would enable many small service providers that serve "niche" markets in rural areas access to LightSquared's wholesale rates, meaning they could enter the wireless broadband market without building their own networks.

Unfortunately, LightSquared's plans have been stalled by complaints about interference with GPS receivers. LightSquared recently announced a plan that would solve 99% of these issues. Therefore, I ask that the Federal Communications Commission support this plan so that rural Americans, like those in our communities, can benefit from this important new technology and its impact on poverty, unemployment, and economic opportunities.

Sincerely,


Amanda Aguirre
President/CEO

CC: Senator John McCain

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11-109

Received & Inspected
AUG 15 2011
FCC Mail Room

August 9, 2011

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

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,

Erik Bowers, PLS
Northridge, California



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AUG 15 2011

FCC Mail Room

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

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Best Regards,

TIMOTHY W. SNYDER, PLS 4727
OAKHURST, California

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cc UNITED STATES SENATOR DIANNE FEINSTEIN, BARBARA BOXER, AND CONGRESSMAN
* JEFF DENHAM



11-109

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

August 9, 2011

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AUG 15 2011

FCC Mail Room

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Best Regards,

Harrison P. Barton, PLS 5397
El Centro, California

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11-109

HOUSE COMMITTEES

- House Committee on General Laws
- House Committee on International Trade and Job Creation
- House Committee on Local Government
- House Committee on Workforce Development

Kevin McManus

August 8, 2011

Ms. Marlene H. Dortch, Secretary
Federal Communications Commission
445 Twelfth Street S.W.
Washington, D.C. 20554
Re: LightSquared

Received & Inspected
AUG 15 2011
FCC Mail Room

Dear Secretary Dortch:

As a legislator, I often hear from constituents about their lack of job opportunities and economic growth for their communities. Access to technology, and specifically high-speed wireless access, is a significant component to improving education, economic and job opportunities. Sadly, we still see a sizeable digital divide in our country.

Private-sector investment in broadband networks can bridge that divide. A specific example is LightSquared, a company that plans to roll out a next-generation broadband wireless network nationally within the next few years, bringing state-of-the-art high-speed Internet to wireless devices in Missouri – and in some parts of the state, for the first time ever.

LightSquared's network will cost the company more than \$25 billion, but it will bring \$120 billion in benefits to U.S. consumers according to one estimate. The company's wholesale-only business model will enable retailers, cable operators, device manufacturers, online content providers, and other communications service providers to provide retail broadband services, benefitting American consumers with additional competitors.

LightSquared's network will combine traditional cell phone towers with satellite capabilities, providing a seamless backup in the case of natural disasters or other emergencies – something those of us in the Midwest know all too much about.

I understand the FCC is working with LightSquared and other stakeholders to assure that this innovative new network can move forward without interfering with existing telecommunications services. I hope that you will continue to work to find a way to allow this network to deploy. Thank you for your consideration.

Sincerely,

Kevin McManus
State Representative
Missouri District 46

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11-109

August 6, 2011

Received & Inspected

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

AUG 15 2011

FCC Mail Room

Dear Ms. Dortch:

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Best Regards,

JAMES T. PILARSKI, PLS 4755
Valencia, California



8-6-11

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**North Carolina Department of Agriculture
and Consumer Services**
N.C. Forest Service



11-109

Steven W. Troxler
Commissioner

Received & Inspected **Wib L. Owen**
Assistant Commissioner
State Forester

August 5th, 2011
Mr. Julius Genachowski, Chairman
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

AUG 15 2011

FCC Mail Room

Dear Chairman Genachowski:

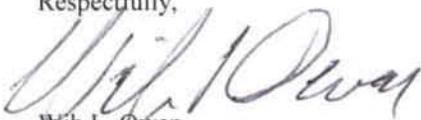
On behalf of the North Carolina Forest Service, I respectfully request the Federal Communications Commission (FCC) to reconsider its conditional approval of repurposing the L Band (1525-1559 MHz) radio spectrum, which is adjacent to the radio spectrum used by GPS (1159-1610 MHz), to LightSquared due to that company's plan to broadcast radio signals many times stronger than GPS signals from ground stations across the U.S. This repurposing could disrupt GPS-based applications nationwide and violate the "Radiofrequency Spectrum and Interference Protection" section of the National Space Policy of the United States of America (http://www.whitehouse.gov/sites/default/files/national_space_policy_6-28-10.pdf).

This repurposing of the radio spectrum next to the spectrum utilized by GPS has caused grave concern amongst North Carolina's forest management community in government agencies, universities, and the private sector due to the wide area GPS interference that could be caused by LightSquared's proposed broadcasts (http://www.ntia.doc.gov/files/ntia/publications/lightsquared_assessment_report_07062011.pdf). Therefore, please reevaluate this evidence with the understanding that GPS has become a positioning, navigating, and timing (PNT) infrastructure to the world's inter-related civilization.

GPS use has become a ubiquitous technology across the North Carolina Forest Service. We use GPS as the basis for location reporting in all programs. GPS is an extremely important tool used when responding to wildfires on North Carolina's 11.5 million acres of privately owned forest land. If LightSquared is allowed to broadcast at their proposed signal strength from ground-based transmitters, the following Forest Service activities would be disrupted: Basic land navigation, forest fire response, suppression, and reporting affecting some 1,400 communities at risk, fire suppression aviation assets such as fire-spotting aircraft and water-dropping helicopters and airplanes, and forest measurement services for 300,000 private forestland owners. In addition, damaging America's GPS would nullify over \$1,000,000 of taxpayer investment in GPS-based tools for the NC Forest Service alone. Other state, local, and federal government partners stand to lose similar or greater amounts of invested taxpayer funds, and citizens and businesses stand to lost invested private capital if the Lightsquared proposal were to move forward.

In summary, I urge the FCC to move extremely cautiously when considering any changes that may impact GPS. Interfering with this widespread and versatile tool could have lasting impacts that far exceed the benefits provided by Lightsquared's proposal. Exhaustive study, resulting in a finding of no potential impact, should be required before granting changes in such a critical part of the radio spectrum.

Respectfully,


Wib L. Owen

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